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## DELTA REPORT

### 10-K

GEF.B - GREIF, INC

10-K - OCTOBER 31, 2023 COMPARED TO 10-K - OCTOBER 31, 2022

The following comparison report has been automatically generated

TOTAL DELTAS 2420

■ CHANGES	359
■ DELETIONS	929
■ ADDITIONS	1132

UNITED STATES  
SECURITIES AND EXCHANGE COMMISSION  
WASHINGTON, D.C. 20549

FORM 10-K

ANNUAL REPORT PURSUANT TO SECTION 13 OR 15(d) OF THE SECURITIES EXCHANGE ACT OF 1934

For the fiscal year ended **October 31, 2022** **October 31, 2023**

or

TRANSITION REPORT PURSUANT TO SECTION 13 OR 15(d) OF THE SECURITIES EXCHANGE ACT OF 1934

Commission file number: 001-00566



**GREIF, INC.**

(Exact name of Registrant as specified in its charter)

Delaware

31-4388903

(State or other jurisdiction of  
incorporation or organization)

(I.R.S. Employer  
Identification No.)

425 Winter Road  
Delaware Ohio

43015

(Address of principal executive offices)

(Zip Code)

(740) 549-6000

(Registrant's telephone number, including area code)

Securities registered pursuant to Section 12(b) of the Act:

<u>Title of Each Class</u>	<u>Trading Symbol(s)</u>	<u>Name of Each Exchange on Which Registered</u>
Class A Common Stock	GEF	New York Stock Exchange
Class B Common Stock	GEF-B	New York Stock Exchange

Securities registered pursuant to Section 12(g) of the Act: None

Indicate by check mark if the Registrant is a well-known seasoned issuer, as defined in Rule 405 of the Securities Act. Yes  No

Indicate by check mark if the Registrant is not required to file reports pursuant to Section 13 or Section 15(d) of the Exchange Act. Yes  No

Indicate by check mark whether the Registrant (1) has filed all reports to be filed by Section 13 or 15(d) of the Securities Exchange Act of 1934 during the preceding 12 months (or for such shorter period that the Registrant was required to file such reports) and (2) has been subject to such filing requirements for the past 90 days. Yes  No

Indicate by check mark whether the Registrant has submitted electronically and posted on its corporate Web site, if any, every Interactive Data File required to be submitted and posted pursuant to Rule 405 of Regulation S-T during the preceding 12 months (or for such shorter period that the Registrant was required to submit and post such files). Yes  No

Indicate by check mark whether the Registrant is a large accelerated filer, an accelerated filer, a non-accelerated filer, smaller reporting company, or an emerging growth company. See the definitions of "large accelerated filer," "accelerated filer," "smaller reporting company," and "emerging growth company" in Rule 12b-2 of the Exchange Act.

Large accelerated filer	<input checked="" type="checkbox"/>	Accelerated filer	<input type="checkbox"/>
Non-accelerated filer	<input type="checkbox"/>	Smaller reporting company	<input type="checkbox"/>
Emerging growth company	<input type="checkbox"/>		

If an emerging growth company, indicate by check mark if the **Registrant** has elected not to use the extended transition period for complying with any new or revised financial accounting standards provided pursuant to Section 13(a) of the Exchange Act.

Indicate by check mark whether the Registrant has filed a report on and attestation to its **management's** assessment of the effectiveness of its internal control over financial reporting under Section 404(b) of the Sarbanes-Oxley Act (15 U.S.C. 7262(b)) by the registered public accounting firm that prepared or issued its audit report.

If securities are registered pursuant to Section 12(b) of the Act, indicate by check mark whether the financial statements of the Registrant included in the filing reflect the correction of an error to previously issued financial statements.

Indicate by check mark whether any of those error corrections are restatements that required a recovery analysis of incentive-based compensation received by any of the Registrant's executive officers during the relevant recovery period pursuant to §240.10D-1(b).

Indicate by check mark whether the Registrant is a shell company (as defined in Rule 12b-2 of the Exchange Act). Yes  No

The aggregate market value of voting and non-voting common equity held by non-affiliates computed by reference to the price at which the common equity was last sold as of the last business day of the Registrant's most recently completed second fiscal quarter was as follows:

Non-voting common equity (Class A Common Stock) **\$1,551,319,317** **\$1,545,247,537**

Voting common equity (Class B Common Stock) **\$1,077,550,928** **\$380,984,205**

The number of shares outstanding of each of the Registrant's classes of common stock, as of **December 13, 2022** **December 12, 2023**, was as follows:

Class A Common Stock **25,606,287** **25,474,254** shares

Class B Common Stock **21,737,151** **21,331,127** shares

Listed hereunder are the documents, portions of which are incorporated by reference, and the parts of this Form 10-K into which such portions are incorporated:

1. The Registrant's Definitive Proxy Statement for use in connection with the Annual Meeting of Stockholders to be held on **February 28, 2023** **February 26, 2024** (the "2023" "2024 Proxy Statement"), portions of which are incorporated by reference into Parts II and III of this Form 10-K. The **2023** **2024** Proxy Statement will be filed within 120 days of **October 31, 2022** **October 31, 2023**.

#### IMPORTANT INFORMATION REGARDING FORWARD-LOOKING STATEMENTS

All statements, other than statements of historical facts, included in this Annual Report on Form 10-K of Greif, Inc. and its subsidiaries for the fiscal year ended **October 31, 2022** **October 31, 2023** (this "Form 10-K") or incorporated herein, including, without limitation, statements regarding our future financial position, business strategy, budgets, projected costs, goals, and plans and objectives of management for future operations and initiatives, are forward-looking statements within the meaning of Section 21E of the Securities Exchange Act of 1934, as amended (the "Exchange Act"). Forward-looking statements generally can be identified by the use of forward-looking terminology such as "may," "will," "expect," "intend," "estimate," "anticipate," "aspiration," "objective," "aspiration," "objective," "project," "believe," "continue," "on track" or "target" or the negative thereof or variations thereon or similar terminology. All forward-looking statements made in this Form 10-K are based on information currently available to our management. Forward-looking statements speak only as of the date the statements were made. Although we believe that the expectations reflected in forward-looking statements have a reasonable basis, we can give no assurance that these expectations will prove to be correct. Forward-looking statements are subject to risks and uncertainties that could cause actual events or results to differ materially from those expressed in or implied by the statements. For a discussion of the most significant risks and uncertainties that could cause our actual results to differ materially from those projected, see "Risk Factors" in Item 1A of this Form 10-K. The risks described in this Form 10-K are not all inclusive, and given these and other possible risks and uncertainties, investors should not place undue reliance on forward-looking statements as a prediction of actual results. All forward-looking statements made in this Form 10-K are expressly qualified in their entirety by reference to such risk factors. Except to the limited extent required by applicable law, we undertake no obligation to update or revise any forward-looking statements, whether as a result of new information, future events or otherwise.

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**PART I****ITEM 1. BUSINESS****(a) General Development of Business**

We are a leading global producer of industrial packaging products and services with operations in over 35 countries. We offer a comprehensive line of rigid industrial packaging products, such as steel, fibre and plastic drums, rigid intermediate bulk containers, **jerrycans and other small plastics**, closure systems for industrial packaging products, transit protection products, water bottles and remanufactured and reconditioned industrial containers, and services, such as container life cycle management, filling, logistics, warehousing and other packaging services. We produce and sell containerboard, corrugated sheets, corrugated containers and other corrugated products to customers in North America in industries such as packaging, automotive, food and building products. We also produce and sell coated recycled paperboard and uncoated recycled paperboard, some of which **we use are used** to produce and sell industrial products (tubes and cores, construction products and protective packaging). **We also produce and sell bulk and specialty partitions made from both containerboard and uncoated recycled paperboard.** In addition, we **also** purchase and sell recycled fiber and produce and sell adhesives used in our paperboard products. **We are a leading global producer of flexible intermediate bulk containers and related services.** We sell timber to third parties from our timberland in the southeastern United States that we manage to maximize long-term value. In addition, we sell, from time to time, timberland and special use land, which consists of surplus land, higher and better use ("HBU") land and development land. Our customers range from Fortune 500 companies to medium and small-sized companies in a cross section of industries.

Our fiscal year begins on November 1 and ends on October 31 of the following year. Any references in this Form 10-K to the years, or to any quarter of those years, relates to the fiscal year or quarter, as the case may be, ended in that year, unless otherwise stated.

As used in this Form 10-K, the terms "Greif," the "Company," "we," "us," and "our" refer to Greif, Inc. and its subsidiaries.

See subsection (g) of this Item 1, Recent Events - Proposed Acquisition of Ipackchem, for information concerning our planned acquisition of Ipackchem Group SAS ("Ipackchem"), a global market leader in the production of high performance plastic packaging, including premium barrier and non-barrier jerrycans and small plastic containers, which was announced on October 31, 2023. Unless expressly identified herein, information in this Form 10-K does not reflect our proposed acquisition of Ipackchem or its business operations, products, services or financial results.

**(b) Financial Information about Segments**

We operate in six operating segments, which are aggregated into three reportable segments: Global Industrial Packaging; Paper Packaging & Services; and Land Management. Information related to our reportable segments is included in Note 13 of the Notes to Consolidated Financial Statements included in Item 8 of this Form 10-K.

**(c) Narrative Description of Business****Sales**

In the Global Industrial Packaging reportable segment, we are a leading global producer of industrial packaging products, such as steel, fibre and plastic drums, rigid intermediate bulk containers, **jerrycans and other small plastics**, closure systems for industrial packaging products, transit protection products, water bottles and remanufactured and reconditioned industrial containers, and services, such as container life cycle management, filling, logistics, warehousing and other packaging services. We sell our industrial packaging products on a global basis to customers in industries such as chemicals, paints and pigments, food and beverage, petroleum, industrial coatings, agriculture, pharmaceutical and minerals, among others.

In the Paper Packaging & Services reportable segment, we produce and sell containerboard, corrugated sheets, corrugated containers and other corrugated products to customers in North America in industries such as packaging, automotive, food and building products. Our corrugated container products are used to ship such diverse products as home appliances, small machinery, grocery products, automotive components, books and furniture, as well as numerous other applications. We also produce and sell coated recycled paperboard and uncoated recycled paperboard, some of which **we use are used** to produce and sell industrial products (tubes and cores, construction products and protective packaging), which ultimately serve both industrial and consumer markets. **We also produce and sell bulk and specialty partitions made from both containerboard and uncoated recycled board.** In addition, we **also** purchase and sell recycled fiber and produce and sell adhesives used in **our** paperboard products.

In the Land Management reportable segment, we are focused on the active harvesting and regeneration of our United States timber properties to achieve sustainable long-term yields. While timber sales are subject to fluctuations, we seek to maintain a consistent cutting schedule, within the limits of market and weather conditions. We also sell, from time to time, timberland and special use land, which consists of surplus land, HBU land and development land. As of **October 31, 2022** **October 31, 2023**, we owned approximately 175,000 acres of timber properties in the southeastern United States.

Due to the variety of our products, we have many customers buying different types of our products, and due to the scope of our sales, no one customer is considered principal in our total operations.

## **Markets**

The markets in which we sell our products are highly competitive with many participants. Although no single company dominates, we face significant competitors in each of our businesses. Our competitors include large vertically integrated companies as well as numerous smaller companies. The industries in which we compete are particularly sensitive to price fluctuations caused by shifts in industry capacity and other cyclical industry conditions. Other competitive factors include design, quality and service, with varying emphasis depending on product line.

In the global industrial packaging industry, we compete by offering a comprehensive line of products on a global basis. In the containerboard industry, we compete by concentrating on providing value-added, higher-margin corrugated products to niche markets. In our other paper packaging businesses, we compete by offering a comprehensive range of uncoated and coated paperboard products and diverse tube, core and other specialty products.

In addition, over the past several years we have closed higher cost facilities and otherwise restructured our operations, which we believe has significantly improved our cost competitiveness.

## **Resources**

Steel, resin and containerboard, as well as used industrial packaging for reconditioning, are the principal raw materials for the Global Industrial Packaging reportable segment, and pulpwood, old corrugated containers and recycled coated and uncoated paperboard are the principal raw materials for the Paper Packaging & Services reportable segment. We satisfy most of our needs for these raw materials through purchases on the open market or under short-term and long-term supply agreements. All of these raw materials are purchased in highly competitive, price-sensitive markets, which have historically exhibited price, demand and supply cyclicity. From time to time, some of these raw materials have been in short supply at certain of our manufacturing facilities. In those situations, we ship the raw materials in short supply from one or more of our other facilities with sufficient supply to the facility or facilities experiencing the shortage. To date, raw material shortages have not had a material adverse effect on our financial condition or results of operations.

## **Government Laws and Regulations**

We must comply with extensive laws, rules and regulations in the United States and in each of the countries where we conduct business with respect to a variety of matters, including the compliance with government laws and regulations concerning the environment and health and safety matters. We do not believe that future compliance with government laws and regulations will have a material adverse effect on our capital expenditures, competitive position, results of operations or financial condition.

As to environmental matters, our operations are subject to extensive federal, state, local and international laws, regulations, rules and ordinances relating to pollution, the protection of the environment, the generation, storage, handling, transportation, treatment, disposal and remediation of hazardous substances and waste materials and numerous other environmental laws and regulations. In the ordinary course of business, we are subject to periodic environmental inspections and monitoring by various governmental agencies. In addition, certain of our production facilities require environmental permits that are subject to revocation, modification and renewal. As of the date of filing this Form 10-K, and based on current information, we believe that the probable costs of the remediation of company-owned property will not have a material adverse effect on our financial condition or results of operations. We believe that we have adequately reserved for our liability for these matters as of **October 31, 2022** **October 31, 2023**.

As to health and safety matters, our manufacturing operations involve the use of heavy equipment, machinery and chemicals and require the performance of activities that create safety exposures. **The health and safety of our employees is our first and foremost priority, and we have established safety policies, programs, procedures, and training for our manufacturing operations.** We are subject to extensive federal, state, local and international laws, regulations, rules and ordinances relating to occupational health and **safety**. **We have established safety policies, programs, procedures and training for our manufacturing operations**, and our safety programs include measures required for compliance with these government laws and regulations. In addition, our safety programs include the ongoing identification and elimination of workplace exposures that can lead to injuries and sharing of health and safety best practices.

We do not believe that future compliance with health and safety laws and regulations will have a material adverse effect on our capital expenditures, results of operations or financial condition.

We do not believe that compliance with federal, state, local and international laws and regulations that have been enacted or adopted regulating the discharge of materials into the environment, or otherwise relating to the protection of the environment, has had or will have a material adverse effect upon our capital expenditures, competitive position, results of operations or financial condition. We do not anticipate any material capital expenditures related to environmental control in **2023**.

**2024.**

See also Note 10 of the Notes to Consolidated Financial Statements included in Item 8 of this Form 10-K for additional information concerning environmental expenses and cash expenditures for the years ended **October 31, 2022** **October 31, 2023**, **2021** **2022** and **2020**, **2021**, and our reserves for environmental liabilities as of **October 31, 2022** **October 31, 2023** and **2021** **2022**.

## **Human Capital**

Our Company's values and culture are critical to our ability to attract, hire and retain talented employees for our global businesses. We seek to engage, develop and incentivize our employees to pursue our vision: "Be the best performing customer service company in the world." We depend on our employees to provide differentiated customer service and create value for our customers through a solutions-based approach with the goal of earning our customers' trust and loyalty. We work to accomplish this goal by looking to our purpose, "We create packaging solutions for life's essentials," vision and values set forth in "The Greif Way."

In fiscal 2022, we launched our Our "Build to Last" strategy, which "Last" strategy provides a platform to support our strategic growth and development under four key missions: creating thriving communities; delivering legendary customer service; protecting our future; and ensuring financial strength. Each employee has a part in driving these key missions wherever they are located in the world, and ultimately, our success is dependent on all of our employees working together to keep these priorities at the forefront of their activities. Within our "creating thriving communities" mission, we are focused on establishing a foundation for action that supports health and safety; diversity, equity and inclusion; and talent development and engagement.

#### *Health and Safety*

Safeguarding the health and safety of our employees is our first and foremost priority. We are committed to providing a safe working environment for all our employees with a philosophy of Zero Harm. We have implemented an incident tracking system that we call the LIFE program to assist with identifying global and regional leading indicators that facilitate the creation of programs and safety action plans that may help to reduce conditions and behaviors that lead to at-risk situations and the use of technology and automation to eliminate such conditions. We also utilize a global safety scorecard with standardized safety metrics within each business unit globally to help ensure that we are evaluating, understand, improve and correct safety similarly across all of our operations globally, risk and culture. To promote a continuous focus on safety, we have safety committees that consist of employees and management at all our facilities. We have implemented safety meetings at all levels in the organization from CEO to shop floor, both in the facilities and we conduct safety meetings before the start of a shift to create in office or remote locations creating a safety mindset that everyone is a safety leader regardless of their position, so that our safety culture is understood and practiced every day, day while developing a behavior commitment culture for each and every employee. We are steadfast in our commitment to employee safety. For example, we hold an annual global safety week focused on Zero Harm by sharing best practices and learnings to mitigate safety risks through interactive activities related to machine safety devices, good housekeeping and safe equipment operations. In addition, we have regular safety communications that target all employees, employees, and we have an annual award that recognizes facilities that have achieved certain criteria for proactive actions and behaviors.

We are also committed to the total well-being of all our employees and their families with a variety of physical, mental and social wellness programs. These programs differ by region and include Company-sponsored or subsidized health care insurances, voluntary health fairs and employee assistance programs to improve mental health and wellness.

#### *Diversity, Equity and Inclusion*

In accordance with our values, we encourage our employees to embrace diversity of culture, language, location and thought. Our success depends on maintaining a culture where every employee communicates with respect, candor and trust. We rely on the unique qualities and talents of our employees to help us achieve our Build to Last Strategy, strategy. We strive to create an inclusive, equitable and diverse working environment by supporting programs and trainings that foster gender and ethnic diversity as well as promoting equitable treatment within our workforce, including the support of multiple colleague-led resource groups, fostering an environment where our employees feel valued and appreciated for the distinct voice they bring to our Company. In addition, we strive to compensate our employees fairly and equitably and continue to monitor pay equity data and educate our managers to make objective compensation decisions in line with our Company's compensation policies. Our efforts to continue to grow our global diversity, equity and inclusion programs and to increase diversity within our Company is a top organizational priority.

#### *Talent Development*

Attracting, developing and retaining talented employees is an integral aspect of our human capital strategy and critical to our success. We continuously strive to create learning and development opportunities for all our employees. Our development and training programs are designed to enhance leadership, develop a customer service mindset and improve engagement at all levels within our organization. We utilize Greif University, a centralized training platform offering a variety of learning and development offerings, including recorded internal trainings, on-demand courses, assessments and a learning library. Starting in 2023, Greif University will allow allows employees to access LinkedIn Learning, an online learning and skill building platform that empowers employees to develop skills to grow their career. We have a performance development review and talent development process in which managers provide regular feedback and coaching to assist with the development of our employees, including the use of individual development plans to assist with career development. To foster employee engagement, we encourage and value feedback from our employees and conduct annual engagement surveys of all our global employees to better understand our employee's employee's level of engagement and identify areas of improvement to build high performing teams to meet our strategic goals.

#### *Other Information*

As of October 31, 2022 October 31, 2023, our approximately 12,000 full-time employees were located in the following geographic regions: 58% in North America; 27% in Europe, Middle East and Africa; 6% in Asia Pacific; and 9% in Latin America. Our global workforce is 15% 17% female and 85% 83% male, with approximately 37% 27% represented by labor unions.

#### **Recent Events**

On December 15, 2022, we completed our previously announced acquisition of Lee Container Corporation, Inc., an industry-leading manufacturer of high-performance barrier and conventional blow molded containers, primarily serving customers in the agrochemical, other specialty chemical, oil and lubricant and pet care segments. The acquired business operates manufacturing facilities in Georgia, Iowa and Texas, with over 500 employees throughout the United States. The operations of the acquired business will be reported in our Global Industrial Packaging business segment.

#### **(d) Financial Information about Geographic Areas**

Our operations are located in North and South Latin America, Europe, the Middle East, Africa and the Asia Pacific regions. Information related to our geographic areas of operation is included in Note 13 of the Notes to Consolidated Financial Statements included in Item 8 of this Form 10-K.

#### **(e) Available Information**

We maintain a website at [www.greif.com](http://www.greif.com). We file reports with the United States Securities and Exchange Commission ("SEC"). We make these reports available, free of charge, on or through our website, which include but are not limited to, our annual reports on Form 10-K, quarterly reports on Form 10-Q, current reports on Form 8-K, proxy and information statements and amendments to these reports filed or furnished pursuant to Section 13(a) or 15(d) of the Exchange Act as soon as reasonably practicable after we have electronically filed such material with, or furnished it to, the SEC.

Any of the materials we file with the SEC may also be read and/or copied at the SEC's Public Reference Room at 100 F Street, NE, Washington, DC 20549. Information on the operation of the SEC's Public Reference Room may be obtained by calling the SEC at 1-800-SEC-0330. The SEC maintains a website that contains reports, proxy and information statements and other information regarding issuers that file electronically with the SEC at [www.sec.gov](http://www.sec.gov).

#### **(f) Other Matters**

Our Class A Common Stock and Class B Common Stock are listed on the New York Stock Exchange ("NYSE") under the symbols GEF and GEF.B, respectively. Our Chief Executive Officer has timely certified to the NYSE that, at the date of the certification, he was unaware of any violation by our Company of the NYSE's corporate governance listing standards. In addition, our Chief Executive Officer and Chief Financial Officer have provided certain certifications in this Form 10-K regarding the quality of our public disclosures. See Exhibits 31.1 and 31.2 to this Form 10-K.

#### **(g) Recent Events - Proposed Acquisition of Ipackchem**

On November 17, 2023, we entered into a definitive sale and purchase agreement (the "SPA") with the owners of the parent company of Ipackchem pursuant to which we are to acquire Ipackchem for a purchase price valued at \$538.0 million, subject to certain adjustments. The acquisition is subject to the satisfaction or waiver of certain conditions, including, among other matters, receipt of certain government and regulatory approvals in France, South Africa and Brazil, as well as Ipackchem's disposition of certain immaterial assets. The SPA may be terminated, and the acquisition may be abandoned at any time prior to the closing, as follows: (i) by mutual written agreement of us and Ipackchem's parent; (ii) by either us or Ipackchem's parent if the conditions set forth in the SPA have not been fulfilled on or before October 31, 2024 (subject to a 20 day extension option by either party); (iii) by Ipackchem's parent if we fail to comply with our obligation to make certain closing date deliveries or by us if Ipackchem's parent fails to comply with its obligation to make certain closing date deliveries; and (iv) by us if Ipackchem's disposition of certain immaterial assets is not completed within six or nine months after October 31, 2023.

Ipackchem is a global market leader in the production of high performance plastic packaging, including premium barrier and non-barrier jerrycans and small plastic containers. Ipackchem specializes in crop protection, specialty chemicals and pharmaceutical industries, operating out of 12 facilities across nine countries.

We plan to use our existing credit facilities to finance our proposed acquisition of Ipackchem. See Item 7 of this Form 10-K, Liquidity and Capital Resources – Financial Obligations – Borrowing Arrangements, for information concerning our existing credit facilities. However, the receipt of the financing described herein or any other financing is not a condition to the closing of the proposed acquisition.

Our proposed acquisition of Ipackchem is subject to certain risks and uncertainties, including the following: the ability to successfully complete the acquisition of Ipackchem on a timely basis, including the receipt of required regulatory approvals and Ipackchem's disposition of certain immaterial assets; the occurrence of any event, change or other circumstance that could give rise to the termination of the transaction; the outcome of any legal proceedings that may be instituted against the parties and others related to the transaction or the acquisition of Ipackchem; the satisfaction of certain conditions to the completion of the transaction or the acquisition of Ipackchem; if the acquisition of Ipackchem is completed, the ability to retain the acquired businesses' customers and employees, the ability to successfully integrate the acquired businesses into our operations, and the ability to achieve the expected synergies as well as accretion in margins, earnings or cash flow; competitive pressures in our various lines of business; the risk of non-renewal or a default under one or more key customer or supplier arrangements or changes to the terms or level of purchases under those arrangements; uncertainties with respect to U.S. and international tax or trade laws; the effects of any investigation or action by any regulatory authority; and changes in foreign currency rates and the cost of commodities. See Item 1A of this Form 10-K for a discussion of other significant risks and uncertainties that could cause our actual results to differ materially from those projected.

#### **ITEM 1A. RISK FACTORS**

Statements contained in this Form 10-K may be "forward-looking" within the meaning of Section 21E of the Exchange Act. Such forward-looking statements are subject to certain risks and uncertainties that could cause our operating results to differ materially from those projected. The following factors, among others, in some cases have affected, and in the future could affect, our actual financial or operational performance, or both.

##### **Risks Related to Market and Economic Factors**

###### ***Historically, our Business has been Sensitive to Changes in General Economic or Business Conditions.***

Our customers generally consist of other manufacturers and suppliers who purchase industrial packaging products and containerboard and uncoated and coated recycled boxboard and related products for their own containment and shipping purposes. Because we supply a cross section of industries, such as chemicals, lubricants, films, paints and pigments, food and beverage, personal care, fragrances, petroleum, industrial coatings, carpeting, agriculture, agrochemical, pharmaceuticals, mineral products, packaging, automotive, construction and building products industries, and have operations in many countries, demand for our products and services has historically corresponded to changes in general economic and business conditions of the industries and countries in which we operate. The overall demand and prices for our products and services could decline as a result of a large number of numerous factors outside of our control, including an economic recession, increased labor costs, availability of and increased cost of energy, specifically in Europe, the COVID-19 global pandemic and disruptions in supply chains to our business, our customers, their end markets and our suppliers, changes in industrial production processes or consumer preference, changes in laws and regulations, inflation, tariffs, changes in published pricing indices, fluctuations in interest rates and currency exchange rates and changes in the fiscal or monetary policies of governments in the regions in which we operate. Accordingly, our financial performance is substantially dependent upon the general economic and business conditions existing in these industries and countries where we do business, and any prolonged or substantial economic downturn or geopolitical uncertainty in the markets in which we operate could have a material adverse effect on our business, financial condition, results of operations and cash flows.

###### ***Our Global Operations Subject us to Political Risks, Instability and Currency Exchange that Could Adversely Affect our Results of Operations.***

We are a global company with operations in over 35 countries with approximately 38% 36% of our fiscal 2022 2023 sales derived from non-U.S. operations. Management of global operations is extremely complex, and our operations outside the United States are subject to additional risks that may not exist, or may not be as significant, with respect to our operations within the United States.

Within our global footprint, we have operations in Russia and Eastern and Western Europe. The length, impact and outcome of the ongoing military conflict in Ukraine is highly unpredictable. The Russian invasion of Ukraine has amplified, and may continue to amplify, certain risks to our operations, including increased foreign exchange volatility, disruptions to financial and credit markets, energy supply specifically (specifically in Europe, Europe), supply chain disruptions, customer demand, increased risks of cybersecurity incidents, increased costs to ensure compliance with global and local laws and regulations, economic recessions in certain neighboring European countries or globally due to inflationary and other pressures, and delays in the ability, or even the inability, to access cash or earnings from Russia. In addition, the imposition of new or increased sanctions, tariffs, quotas, exchange or price controls, trade barriers or similar restrictions resulting from the Russian invasion of Ukraine could negatively impact our business and operations.

In response to the Russian invasion of Ukraine, we suspended all outside investments in Russia starting in early March 2022. In addition, Although we have not withdrawn cash or been able to distribute some earnings from Russia since the invasion began, but we are in the process to do so our Russian operations in compliance with all applicable laws, laws, access to cash and earnings in Russia remains limited. Furthermore, we may decide in the future to cease event that our operations in Russia in which case the sale or

other disposition of our Russian operations cease for any reason, that event would result in an impairment charge, as we would not likely generate a fair market return on those assets. We will continue to monitor the effects of this conflict, including risks that may affect our business, and we will adjust our plans accordingly as the situation progresses. Currently, the results of our operations related to Russia are not material to our business, financial condition, results of operations or cash flows.

As a result of our general global operations, we are subject to certain risks that could disrupt our operations or force us to incur unanticipated costs or exit a specific country. These risks, which can vary substantially by country, may include economic or political instability, geopolitical events (such as the following):

- political, Russian invasion of Ukraine, the Israel-Hamas conflict and increasing tensions between China and Taiwan), corruption, social and ethnic unrest, the regulatory environment (including the risks of operating in developing or emerging markets in which there are significant uncertainties regarding the interpretation and enforceability of legal requirements), hyperinflation and fluctuations in the value of local currency versus the U.S. dollar, repatriating cash from foreign countries to the U.S., downturns or changes in economic and labor instability;
- war, invasion, civil disturbance conditions (including in relation to commodity inflation), adverse tax consequences or acts of terrorism;
- taking of property by rulings, nationalization or expropriation without fair compensation;
- changes any change in government social, political or labor conditions in any of these countries, or regions impacting matters such as sustainability, environmental regulations and trade policies and regulations and enforcement thereof, including selectivity or discrimination in the enforcement thereof;
- loss or non-renewal of treaties or similar agreements with foreign tax authorities;
- difficulties in enforcement of contractual obligations;
- difficulties withdrawing or limitations with respect to accessing cash or earnings from our international subsidiaries and the conversion of currencies into U.S. dollars, including the remittance of dividends and other payments by our international subsidiaries;
- imposition or increase of withholding and other taxes on income remittances and other payments by international subsidiaries;
- hyperinflation, currency devaluation or defaults in certain countries;
- impositions or increase of investment and other restrictions or requirements by non-U.S. governments;
- national and regional labor strikes, whether legal or illegal and other labor or social actions;
- restrictive governmental trade policies, customs, tariffs, trade-wars, international boycotts, sanctions, import/export and other trade compliance regulations; and
- financial uncertainties in our major international markets.agreements.

We also have indebtedness, agreements to purchase raw materials and agreements to sell finished products that are denominated in Euros, Turkish Lira, Russian Rubles and other currencies. Our operating performance is affected by fluctuations in currency exchange rates by:

- translations into U.S. dollars for financial reporting purposes of the assets and liabilities of our non-U.S. operations conducted in local currencies; and
- gains or losses from transactions conducted in currencies other than the operation's functional currency.

#### ***The Current and Future Challenging Global Economy and Disruption and Volatility of the Financial and Credit Markets may Adversely Affect our Business.***

Current global economic conditions are challenging to our global business operations. Such conditions have had, and may continue to have, a negative impact on our financial results. Future economic downturns, either in the United States, Europe or in other regions in which we do business could negatively affect our business and results of operations. With the volatility in the current global economic climate, inflation and geopolitical events around the world, including the Russian invasion of Ukraine and the lingering impact of COVID-19 pandemic, Israel-Hamas conflict, it is difficult for us to predict the complete impact of the forgoing matters on our business and results of operations. Due to these current and future economic conditions, our customers may face financial difficulties, disruption in their supply chains and the unavailability of or reduction in commercial credit or increased debt levels that may result in decreased sales by and revenues to our Company. Certain of our customers may cease operations or seek bankruptcy protection, which would reduce our cash flows and adversely impact our results of operations. Our customers that are financially viable and not experiencing economic distress may nevertheless elect to reduce the volume of orders for our products or close facilities in an effort to remain financially stable or as a result of the unavailability of commercial credit which would negatively affect our results of operations. We may experience difficulties in servicing, renewing or repaying our outstanding debt due to continued volatility in the global economy. We may also have difficulty accessing the global credit markets if there is a tightening of commercial credit availability, which would result in decreased ability to fund capital-intensive strategic projects.

Further, we may experience challenges in forecasting revenues and operating results due to these global economic conditions. The difficulty in forecasting revenues and operating results may result in volatility in the market price of our common stock.

In addition, the lenders under our senior secured credit agreement and other borrowing facilities described in Item 7 of this Form 10-K under Liquidity and Capital Resources - Borrowing Arrangements and the counterparties with whom we maintain interest rate swap agreements, currency forward contracts and derivatives and other hedge agreements may be unable to perform their lending or payment obligations in whole or in part, or may cease operations or seek bankruptcy protection, which would negatively affect our cash flows and our results of operations.

The equipment that we use in our manufacturing operations is expensive and requires continued maintenance. We may require significant capital investment to maintain our equipment. If our existing sources of capital prove insufficient, there can be no assurance that we will be able to obtain capital to finance these expenditures on favorable terms, or

at all. Any inability by us to maintain our equipment as needed or any inability to obtain capital for expenditures on equipment maintenance on favorable terms could have an adverse effect on our business, financial position and results of operations.

#### **The COVID-19 Pandemic Could Continue to Impact Any Combination of our Business, Financial Condition, Results of Operations and Cash Flows.**

The global impact from the COVID-19 pandemic on our business depends on future developments which are uncertain, such as the duration of the pandemic, the severity and continued transmission of the virus, the emergence of new variant strains and the availability and effectiveness of vaccines in the regions in which we operate. The initial impact from the COVID-19 pandemic to our business has stabilized, but we continue to experience operational disruptions including, supply chain bottlenecks, increased labor costs and transportation challenges, in addition to other impacts not currently known. With the likelihood of new variants that continue the spread of the virus, governments may seek to reimpose business shut downs and various operational restrictions, such as restricting, for example, the movement of our employees and product within locked down regions within China, which could further impact our business, our customers, their end markets, and our suppliers. To attempt to mitigate the financial risks directly related to the COVID-19 pandemic, we have developed and implemented operational contingency plans that we believe will help us be prepared to continue supplying our products and services to our customers. As a result, depending on the region in which we operate, the COVID-19 pandemic may continue to have a negative impact on our financial condition, results of operations and cash flows and, at this time, we cannot reasonably estimate the full impact of the COVID-19 pandemic.

#### **Risks Related to Industry Conditions**

##### ***The Continuing Consolidation of our Customer Base and Suppliers may Intensify Pricing Pressure.***

Over the last few years, many of our large industrial packaging, containerboard and coated and uncoated recycled boxboard and related products customers have acquired, or been acquired by, companies with similar or complementary product lines. In addition, many of our suppliers of raw materials such as steel, resin and paper, have undergone a similar process of consolidation. This consolidation has increased the concentration of our largest customers, resulting in, in some cases, increased pricing pressures from our customers, customers, and in other cases, a decreasing customer base due to customers becoming more vertically integrated. The consolidation of our largest suppliers has resulted in limited sources of supply and increased cost pressures from our suppliers. Any future consolidation of our customer base or our suppliers could negatively impact our business, financial condition, results of operations and cash flows. Furthermore, if one or more of our major customers reduces, delays or cancels substantial orders, if one or more of our major suppliers is unable to timely produce and deliver our orders, or if we are unable to broaden our customer base and increase specialty product offerings to offset the effects of consolidation, our business, financial condition, results of operations and cash flows may be materially and adversely affected, particularly for the period in which the reduction, delay or cancellation occurs and also possibly for subsequent periods.

##### ***We Operate in Highly Competitive Industries.***

Each of our operating segments operates in highly competitive industries. The most important competitive factors we face are price, quality, customer service and on-time delivery. To the extent any of our competitors become more successful with respect to any of these key competitive factors, we could lose customers and our sales could decline. Moreover, we anticipate that the lower customer demand patterns that we experienced throughout fiscal year 2023 will continue on an overall basis through 2024, which may cause our competitors to reduce prices to maintain or increase their sales volumes, which could adversely impact our sales volumes and our margins. In addition, due to the tendency of certain customers to diversify their suppliers, we could be unable to increase or maintain sales volumes with particular customers. Certain of our competitors are substantially larger and have significantly greater financial resources.

In addition, some of our products are made from raw materials that are subject to pronounced and at times, rapid price fluctuations, such as steel, which is used in the manufacture of steel drums and containers, old corrugated containers ("OCC"("OCC")), which impacts our paper products, and oil, which in turn affects the price of resin for plastic drums and containers. Particularly in well-developed markets in Europe and in the United States, any substantial increases in the supply of industrial packaging resulting from capacity increases, the stockpiling of raw materials or other types of opportunistic behavior by our competitors in a period of high raw materials prices, or price wars, could adversely affect our margins and the profitability of our business. With many of our customers, we have implemented raw material price adjustment mechanisms based on industrial index pricing, however these price adjustment mechanisms lag market price changes and our ability to pass through costs to our customers could take months to realize which in turn could adversely impact our product margins. Although price is a significant basis of competition in our industry, we also compete on the basis of product reliability, the ability to deliver products on a global scale and our reputation for quality and customer service. If we fail to maintain our current standards for product quality, the scope of our distribution capabilities or our customer relationships, our reputation and business, financial condition, results of operations and cash flows could be adversely affected.

Negative media reports about us or our businesses, whether accurate or inaccurate, could damage our reputation and relationships with our customers and suppliers, cause customers and suppliers to terminate their relationship with us, or impair our ability to effectively compete, which could adversely affect our business, financial condition, results of operations and cash flows.

##### ***Our Business is Sensitive to Changes in Industry Demands and Customer Preferences.***

Industry demand for certain of our industrial packaging and paper products in our United States operations, and industrial packaging products in European and other international markets has varied in recent years, and more recently related to inflationary pressures, causing competitive pricing for those products. In addition, disruptions within our customer labor supply could reduce customer demand and negatively impact our business. As demand decreases, we see an increase in competition on price, which could consequentially impact our sales and margins. We see to offset the impacts of these pressures by focusing on quality and customer service.

We compete in industries that are capital intensive, which generally leads to continued production as long as prices are sufficient to cover marginal costs. We are making significant capital investments in line with our long-term business strategy, such as investments in new and improved equipment automation and technology to increase capacity, productivity and safety. As a result, changes in industry demands (including any resulting industry over-capacity) and increased new capacity for production of industrial packaging products by competitors, may cause substantial price competition and, in turn, we may not be able to derive the expected return on investment from our strategic investments which could negatively impact our business, financial condition, results of operations and cash flows. Additionally, customer preferences are constantly changing based on, among other factors, cost, convenience, health, environmental and social concerns, and customers may choose to use different packaging products than the products we manufacture as their business models change, or may choose to use alternative, more sustainable materials for their packaging products, or simply forego the packaging of certain products entirely. For example, in the United States, sales of fibre drums continue to decline on a year over year basis as some customers select other packaging solutions for their products. Any shift away from

packaging products we manufacture or changes in customer preferences to more sustainable supply chain solutions may adversely affect our business, financial condition, results of operations and cash flows.

#### **Raw Material Shortages, Price Fluctuations, Global Supply Chain Disruptions and Increased High Inflation may Adversely Impact our Results of Operations.**

The principal raw materials used in the manufacture of our products are steel, resin, pulpwood, and recycled pulp from OCC and recycled coated and uncoated boxboard and containerboard and used industrial packaging for reconditioning, which we purchase or otherwise acquire in highly competitive, price sensitive markets. We have long-term supply contracts in place for obtaining a portion of our principal raw materials. These raw materials have historically exhibited price and demand cyclical. In addition, we manufacture certain component parts for our rigid industrial packaging products and those of some of our competitors. Some of these materials and component parts have been, and in the future may be, in short supply. For example, the availability of these raw materials and component parts and/or our ability to purchase and transport these raw materials and produce and transport these component parts may be unexpectedly disrupted by adverse weather conditions, natural disasters, man-made disasters, geopolitical conflicts, a substantial economic downturn in the industries that provide any of those raw material requirements, or competition for use of raw materials and component parts in other regions or countries. However, we have not recently experienced any significant difficulty in obtaining our principal raw materials or component parts. With the global As a result of inflation and continued economic uncertainty surrounding inflationary pressures, the economic slowdown, the Russian invasion of Ukraine, the COVID-19 pandemic, supply chain disruptions and transportation delays, we may continue to incur significant raw material prices increases in the future which would likely have an adverse effect on our operating margins. We have long-term supply contracts in place for obtaining a portion of our principal raw materials.

The disruptions to the global economy starting in 2020 and continuing throughout 2022, which were intensified by the Russian invasion of Ukraine, have impeded global supply chains in some regions in which While we operate more than others, resulting in longer lead times. We have taken steps to minimize the impact of these increased costs by working closely with our suppliers and customers. Despite the actions we have undertaken to minimize the impacts, customers, there can be no assurances that unforeseen future events in the global supply chain, and our ability to pass on inflationary costs on to our customers could have a material adverse effect on our business, financial condition and results of operations.

The disruptions to the global economy starting in 2020 and continuing throughout 2023, which were intensified by the Russian invasion of Ukraine, have impeded global supply chains in some regions in which we operate more than others, resulting in longer lead times.

#### **Energy and Transportation Price Fluctuations and Shortages may Adversely Impact our Manufacturing Operations and Costs.**

The cost of producing our products is sensitive to the price of energy, including its impact on transport costs. Energy prices, in particular oil and natural gas, have fluctuated in recent years, and specifically in Europe related to the Russian invasion of Ukraine, which had a corresponding effect on our operation and production costs and may have the same effect on our customers causing volatility in demand for our products and services. We are currently seeking alternative energy resources in Europe that may take years to fully implement and savings to be realized, if any. Potential legislation, regulatory action and international treaties related to climate change, especially those related to the regulation of greenhouse gases, may result in significant increases in energy costs as well as taxes, and other governmental charges. We are highly reliant on the trucking industry for the transportation of our products. The overall profitability of our operations may be negatively impacted by higher transportation costs as freight carriers raise prices to address the continued shortage of drivers and market tightness. There can be no assurance that we will be able to recoup any past or future increases in the cost of energy and transportation.

### **Risks Related to our Operations**

#### **We may not Successfully Implement our Business Strategies, Including Achieving our Growth Objectives.**

We may not be able to fully implement our build to last business strategy or realize, in whole or in part within the expected time frames, the anticipated benefits of our growth and other initiatives. Our various business strategies and initiatives are subject to significant business, economic and competitive uncertainties and contingencies, many of which are beyond our control.

In addition, we may incur certain costs to achieve efficiency improvements and growth in our business and we may not meet anticipated implementation timetables or stay within budgeted costs. As these growth initiatives are undertaken, we may not fully achieve our expected cost savings and efficiency improvements or growth rates, or these initiatives could adversely impact our customer retention or our operations. Also, our business strategies may change from time to time in light of our ability to implement our new business initiatives, competitive pressures, inflation, labor shortages, economic uncertainties or developments, such as the Russian invasion of Ukraine, the COVID-19 pandemic, or other factors. A variety of risks could cause us not to realize some or all of the expected benefits of these initiatives. These risks include, among others, delays in the anticipated timing of activities related to such initiatives, strategies and operating plans; increased difficulty and costs in implementing these efforts; and the incurrence of other unexpected costs associated with operating the business. If, for any reason, the benefits we realize are less than our estimates or the implementation of these growth initiatives and business strategies adversely affect our operations or cost more or take longer to effectuate than we expect, or if our assumptions prove inaccurate, our business, financial condition, results of operations and cash flows may be adversely affected.

#### **We may Encounter Difficulties or Liabilities Arising from Acquisitions or Divestitures.**

We have invested a substantial amount of capital in acquisitions, joint ventures and strategic investments and we expect that we will continue to do so in the foreseeable future. We are continually evaluating acquisitions, divestitures and strategic investments that are significant to our business both in the United States and internationally. Acquisitions, joint ventures and strategic investments involve numerous risks, including the failure to identify suitable acquisition candidates, complete acquisitions on acceptable terms and conditions, retain key customers, employees and contracts, the inability to integrate businesses without material disruption, unanticipated costs incurred in connection with integrating businesses, the incurrence of liabilities greater than anticipated or operating results that are less than anticipated, the inability to realize the projected value, and the inability to realize projected synergies. In addition, acquisitions, joint ventures and strategic investments and associated integration activities require time and attention of management and other key personnel. There can be no assurance that any acquisitions, joint ventures and strategic investments will be successfully integrated into our operations, that competition for acquisitions will not intensify or that we will be able to complete such acquisitions, joint ventures and strategic investments on acceptable terms and conditions. The costs of unsuccessful acquisition, joint venture and strategic investment efforts may adversely affect our business, financial condition, results of operations and cash flows.

Additionally, in connection with any acquisitions or divestitures, we may become subject to contingent liabilities or legal claims, including but not limited to third party liability and other tort claims; claims for breach of contract; employment-related claims; environmental, health and safety liabilities; permitting, regulatory or other legal compliance issues; or tax liabilities. If we become subject to any of these liabilities or claims, and they are not adequately covered by insurance or an enforceable indemnity or similar agreement from a creditworthy counterparty, we may be responsible for significant out-of-pocket expenditures. These liabilities, if they materialize, could have an adverse effect on our business, financial condition, results of operations and cash flows.

***We may Incur Additional Rationalization Costs and there is no Guarantee that our Efforts to Reduce Costs will be Successful.***

We have reorganized portions of our operations from time to time in recent years, particularly following acquisitions or divestments of businesses, and periods of economic downturn due to local, regional or global economic conditions. We will continue to implement continuous improvement initiatives necessary or desirable to improve our business portfolio, address underperforming assets and generate additional cash. These initiatives may include reductions in selling, general and administrative costs throughout our Company and have and will likely continue to result in the rationalization of manufacturing facilities.

The rationalization of our manufacturing facilities may result in temporary constraints upon our ability to manufacture the quantity of products necessary to fill orders and thereby complete sales in a timely manner. In addition, system upgrades at our manufacturing facilities that impact ordering, production scheduling and other related manufacturing processes are complex, and could impact or delay production targets. A prolonged delay in our ability to fill orders on a timely basis could affect customer demand for our products and increase the size of our product inventories, causing future reductions in our manufacturing schedules and adversely affecting our results of operations. Moreover, our continuous development and production of new products will often involve the retooling of existing manufacturing facilities. This retooling may limit our production capacity at certain times in the future, which could adversely affect our business, financial condition, results of operations and cash flow. In addition, the expansion and reconfiguration of existing manufacturing facilities could increase the risk of production delays, as well as require significant investments of capital.

While we expect these initiatives to result in significant profit opportunities and savings throughout our organization, our estimated profits and savings are based on assumptions that may prove to be inaccurate, and as a result, there can be no assurance that we will realize these profits and cost savings or that, if realized, these profits and cost savings will be sustained. Failure to achieve or delays in achieving projected levels of efficiencies and cost savings from such measures, or unanticipated inefficiencies resulting from manufacturing and administrative reorganization actions in progress or contemplated, could adversely affect our business, financial condition, results of operations and cash flows and harm our reputation.

***Several Operations are Conducted by Joint Ventures that we Cannot Operate Solely for our Benefit.***

Several operations, particularly in developing countries, are conducted through joint ventures. In countries that require us to conduct business through a joint venture with a local joint venture partner, the loss of a joint venture partner or a joint venture partner's loss of its ability to conduct business in such country may impact our ability to conduct business in that country.

Sanctions that apply to a partner of a joint venture or to a joint venture's directors or officers could also impact our ability to conduct business through that joint venture.

In joint ventures, we share ownership with one or more parties who may or may not have the same goals, strategies, priorities or resources as we do. In general, joint ventures are intended to be operated for the benefit of all co-owners, rather than for our exclusive benefit. Operating a business as a joint venture often requires additional organizational formalities as well as time-consuming procedures for sharing information, accounting and making decisions. In certain cases, our joint venture partners must agree in order for the applicable joint venture to take certain actions, including acquisitions, the sale of assets, borrowing money and granting liens on joint venture property. Our inability to take unilateral action that we believe is in our best interest may have an adverse effect on the financial performance of the joint venture and the return on our investment. Finally, we may be required on a legal or practical basis or both, to accept liability for obligations of a joint venture beyond our economic interest, including in cases where our co-owner becomes bankrupt or is otherwise unable to meet its commitments.

***Certain of the Agreements that Govern our Joint Ventures Provide our Partners With Put or Call Options.***

The agreements that govern certain of our current joint ventures under certain circumstances provide the joint venture partner with the right to sell their participation in the joint venture to us or the right to acquire our participation in the joint venture. Some of the joint venture agreements provide that the joint venture partner can sell its participation for a certain purchase price calculated on the basis of a fixed multiple. Such put and call rights may result in financial risks for us. In addition, such rights could negatively impact our operations if as a result of their exercise we lose access to members of our management teams that are familiar with local markets or distribution and manufacturing channels.

***Our Ability to Attract, Develop and Retain Talented and Qualified Employees, Managers and Executives is Critical to our Success.***

Our ability to attract, develop and retain talented and qualified employees at all levels within our organization, including production employees, key managers and executives is critical to the success of our business. We need an engaged workforce to serve our customers and meet our business objectives. Competitive pressures and a tightened labor market within and outside our industry, may make it more difficult and expensive to attract, hire and effectively onboard qualified employees. Increased turnover of production employees, the retirement of or unforeseen loss of key officers and employees without appropriate succession planning or the ability to develop or hire replacements could make it difficult to manage our business and meet our business objectives, resulting in a material adverse effect on our business, financial condition, results of operations and cash flows.

***Our Business may be Adversely Impacted by Work Stoppages and Other Labor Relations Matters.***

We are subject to the risk of work stoppages and other labor relations matters, with approximately 37% 27% of our employees around the world represented by unions. We have experienced work stoppages and strikes in the past, and there may be work stoppages and strikes in the future. Any prolonged work stoppage or strike at any one of our principal manufacturing facilities could have a negative impact on our business, financial condition, results of operations and cash flows. In addition, upon the expiration of existing collective bargaining agreements, we may not reach new agreements without union action and any such new agreements may not be on terms satisfactory to us.

***We may be Subject to Losses that Might not be Covered in Whole or in Part by Existing Insurance Reserves or Insurance Coverage and General Insurance Premium and Deductible Increases.***

We are self-insured or carry large deductibles for certain types of insurance claims, which includes, but is not limited to, claims made under our employee medical and dental insurance programs and workers' compensation, auto and general liability claims. We utilize outside actuarial services to establish reserves for estimated costs related to pending claims, administrative fees and claims incurred but not reported. Because establishing reserves is an inherently uncertain process involving estimates, currently established reserves may not be adequate to cover the actual liability for claims made under our employee medical and dental insurance programs and for certain of our workers' compensation and liability claims. If it is concluded that our estimates are incorrect and our reserves are inadequate for these claims, we will need to increase our reserves, which could adversely affect our financial condition, results of operations and cash flows.

We have comprehensive liability, fire and extended coverage insurance on our facilities and operations, with policy specifications and insured limits customarily carried for similar properties. However, there are certain types of losses, such as losses resulting from wars, acts of terrorism, windstorms, floods, wildfires, earthquakes or other natural disasters, or pollution, that may be uninsurable or subject to restrictive policy conditions or subject to very large deductibles. In these instances, should a loss occur in excess of insured limits, we could lose capital invested in that property, as well as the anticipated future revenues derived from the manufacturing activities conducted at that property, while remaining obligated for any financial obligations related to the property. Any such loss would adversely impact our business, financial condition, results of operations and cash flows. We purchase insurance policies covering general liability and product liability with substantial policy limits. However, there can be no assurance that any liability claim would be adequately covered by our applicable insurance policies or would not be excluded from coverage based on the terms and conditions of the policy. This could also apply to any applicable contractual indemnity. We also purchase environmental liability policies where legally required and may elect to purchase coverage in other circumstances in order to transfer all or a portion of environmental liability risk through insurance. However, there can be no assurance that any environmental liability claim would be adequately covered by our applicable insurance policies or would not be excluded from coverage based on the terms and conditions of the policy. We do not purchase crop insurance for our timberland holdings, and a forest fire or other event could damage a material amount of timber.

The costs of insurance coverage continue to increase, along with increases in the level of deductibles, and the availability of some insurance coverages is decreasing due to extensive property damage caused by natural disasters, increased cyber security breaches, large jury verdicts and other business and employment litigation and losses. Any substantial increases in our insurance premiums, deductibles or the availability of insurance policies could adversely affect our business, financial condition, results of operations and cash flows.

***Our Business Depends on the Uninterrupted Operations of our Facilities, Systems and Business Functions, Including our Information Technology ("IT" ("IT") and Other Business Systems.***

Our business is dependent upon our ability to execute, in an efficient and uninterrupted fashion, necessary business functions, such as accessing key business data, financial information, order processing, invoicing and the operation of IT dependent manufacturing equipment. A significant portion of the communication between our employees, customers and suppliers around the world depends on the reliability of our IT systems. A significant interruption or major failure of the Internet, a shut-down of or inability to access one or more of our facilities, a power outage, unavailability or a failure of one or more of our IT, telecommunications or other systems would substantially impair our ability to perform daily functions on a timely basis and could result in a material adverse impact on our operations and adversely affect our sales.

We are in the process of implementing a standard IT platform across our business and have successfully completed implementation in a majority of our locations. The transition from many former systems, many of which were acquired in connection with business acquisitions, to a single system will reduce complexity and inefficiencies in monitoring business results and consolidating financial data. The transition could result in adverse business effects. This project has been ongoing for several years requiring significant human and financial resources and is expected to extend into 2023. These projects may be further delayed as a result of the Russian invasion of Ukraine. There can be no assurance that this project will be successful, and even if successful, there can be no assurance that other difficulties and inefficiencies will not still exist in our systems.

We have established a business continuity plan in an effort to ensure the continuation of core business operations in the event that normal operations could not be performed due to a catastrophic event. While we continue to test and assess our business continuity plan to ensure it meets the needs of our core business operations and addresses multiple business interruption events, there is no assurance that core business operations could be performed upon the occurrence of such an event which may have a material adverse effect on our business, financial condition, results of operations and cash flows.

***A Cyber-Attack, Security Breach of Customer, Employee, Supplier or Company Information and Data Privacy Risks and Costs of Compliance with New Regulations may have a Material Adverse Effect on our Business, Financial Condition, Results of Operations and Cash Flows.***

In the conduct of our business, we rely extensively on computer systems, including third party third-party systems, to collect, use, transmit, store and report data on information systems and interact with customers, vendors and employees. Increased global IT security threats and more sophisticated and targeted computer crime and increased ransomware attacks pose a risk to the security of our systems and networks and third-party systems and networks with our data (including employee and customer data), and the confidentiality, availability and integrity of our data. Despite our security measures, our IT systems and infrastructure may be vulnerable to computer viruses, cyber-attacks, security breaches caused by employee error or malfeasance or other disruptions, and heightened focus since the beginning of the Russian invasion of Ukraine. Any such threat could compromise our networks and the information stored there could be accessed, publicly disclosed, lost or stolen. A security breach of our computer systems or third-party systems with our data could interrupt or damage our operations or harm our reputation, or both. In addition, we could be subject to legal claims or proceedings, liability under laws that protect the privacy of personal information and regulatory penalties if confidential information relating to customers, suppliers, employees or other parties is misappropriated from our computer system. system or third-party systems with our data. To date, we have seen no material impact on our business or operations from these threats. However, we cannot ensure that our security efforts will prevent unauthorized access or loss of functionality to our or our third-party providers' providers' systems.

The regulatory framework for privacy issues continues to evolve worldwide with increased regulatory and enforcement focus on data protection in the U.S. and abroad, and an actual or alleged failure to comply with applicable U.S. or foreign data protection laws, regulations or other data protection standards in the countries in which we do business may expose us to litigation (including in some instances, class action litigation), fines, sanctions or other penalties, which could harm our business reputation, and could have an adverse effect on our financial condition, results of operations and cash flows. The data privacy landscape is continuously expanding and has significantly increased responsibilities for companies collecting, using and processing personal data, as well as significantly increased penalties for noncompliance of security and data breach obligations.

specifically in the EU European Union ("EU") under the General Data Protection Regulation, in China under the Personal Information Protection Law, and in Brazil under the General Personal Data Protection Law, in addition to U.S. privacy laws in numerous states. Many of these regulations are complex and their interpretation, application and enforcement are often uncertain. This regulatory and enforcement environment is increasingly challenging and may present material obligations and risks to our business, including significantly

expanded compliance burdens and enforcement risks and could result in substantial costs and a material adverse effect on our business, financial condition, results of operations and cash flows.

#### Risks Related to Financial Reporting

##### **We Could be Subject to Changes in our Tax Rates, the Adoption of New U.S. or Foreign Tax Legislation or Exposure to Additional Tax Liabilities.**

The multinational nature of our business subjects us to taxation in the United States and numerous foreign jurisdictions. Due to economic and political conditions, tax rates in various jurisdictions may be subject to significant change. Our future effective tax rates could be affected by changes in the mix of earnings in countries with differing statutory tax rates, changes in the valuation of deferred tax assets and liabilities, or changes in tax laws or their interpretation.

The Organization for Economic Cooperation and Development has issued proposed guidance which establishes a 15% global minimum tax ("Pillar Two tax"). In December 2022, the EU issued a directive requiring member states to enact a 15% minimum tax into their domestic laws effective for fiscal years beginning on or after December 31, 2023. We will continue to monitor the status of the Pillar Two tax implementation in the jurisdictions in which we operate. Implementation of the Pillar Two tax by jurisdictions in different ways may cause increased complexities as to compliance and increased audit controversy with tax authorities over the application or interpretation of the applicable rules.

Tax laws are complex and subject to varying interpretations. At this time, we believe we are properly reflecting the provision for taxes on income using all current enacted global tax laws in every jurisdiction in which we operate. However, there can be no assurance that our tax positions will not be challenged by relevant tax authorities or that we would be successful in any such challenge.

##### **Full Realization of our Deferred Tax Assets may be Affected by a Number of Factors.**

We have deferred tax assets, including foreign net operating loss carryforwards and foreign capital loss carryforwards, employee and retiree benefit items, and other accruals not yet deductible for tax purposes. In certain cases, we have established valuation allowances to reduce those deferred tax assets to an amount that is more likely than not to be realized. Our ability to use these deferred tax assets depends in part upon our having future taxable income during the periods in which these temporary differences reverse or our ability to carry back any losses created by the deduction of these temporary differences. We expect to realize these assets over an extended period. However, if we were unable to generate sufficient future taxable income in the U.S. and certain foreign jurisdictions, or if there were a significant change in the time period within which the underlying temporary differences became taxable or deductible, we could be required to increase the valuation allowances on our deferred tax assets, which could have an adverse effect on our financial condition, results of operations and cash flows.

##### **We have a Significant Amount of Goodwill and Long-lived Assets Which, if Impaired in the Future, Would Adversely Impact our Results of Operations.**

Our goodwill would be impaired if the fair value of any particular reporting unit is less than the carrying value of that reporting unit. Impairment of our goodwill would reduce our net income in the period of any such write down. We are required to evaluate the goodwill recorded on our balance sheet at least annually, or when circumstances indicate a potential impairment. If we determine that the goodwill is impaired, we would be required to write off a portion or all of the goodwill. The adverse economic impacts of the COVID-19 pandemic and other adverse economic impacts of general business conditions on our business may increase the potential of a goodwill impairment. At **October 31, 2022** **October 31, 2023**, the carrying value of our goodwill was **\$1,464.5 million** **\$1,693.0 million**.

We may be required to record future impairments of our long-lived assets as we continue to restructure our business. Decisions to sell or close plants could reduce the estimated useful life of an asset group or indicate that the fair value of the asset group is less than the carrying value. We may also experience declines in particular businesses due to competition or other outside forces indicating our long-lived assets are not recoverable. Any resulting impairments will impact net income in the period in which the triggering event, such as permanent or sustaining reduction in cash flows, occurs and could be significant, which could have an adverse effect on our financial condition and results of operations.

##### **Our Pension and Post-retirement Plans are Underfunded and will Require Future Cash Contributions, and our Required Future Cash Contributions Could be Higher than we Expect, Each of Which Could Have a Material Adverse Effect on our Financial Condition and Liquidity.**

We sponsor various pension and similar benefit plans worldwide. Our U.S. and non-U.S. pension and post-retirement plans were underfunded by an aggregate of \$27.2 million and \$7.2 million, respectively, as of October 31, 2022. We may be legally required to make cash contributions to our pension plans in the future, and those cash contributions could be material.

In 2023, we expect, but are not obligated, to make cash contributions and direct benefit payments of approximately \$28.4 million and \$1.0 million to our U.S. and non-U.S. pension and post-retirement plans, respectively, which we believe will be sufficient to meet the minimum funding requirements under applicable laws. Our future funding obligations for our pension and post-retirement plans depend upon the levels of benefits provided for by these plans, the future performance of assets set aside for these plans, the rates of interest used to determine funding levels, the impact of potential business dispositions, actuarial data and experience, and any changes in government laws and regulations. Accordingly, our future funding requirements for our pension and post-retirement plans could be higher than expected, which could have a material adverse effect on our financial condition and liquidity.

In addition, our pension plans hold a material amount of equity securities. If the market values of these securities decline, our pension expense and funding requirements will increase, which could have a material adverse effect on our financial condition and liquidity.

Any decrease in interest rates or asset returns, if any, to the extent not offset by contributions, could increase our obligations under our pension plans. If the performance of assets held in these pension plans does not meet our expectations, our cash contributions for these plans could be higher than we expect, which could have a material adverse effect on our financial condition and liquidity.

#### Risks Related to Regulatory and Legal Costs

##### **Changing Climate, Global Climate Change Regulations and Greenhouse Gas Effects may Adversely Affect our Operations and Financial Performance.**

There is continuing concern from members of the scientific community and the general public that emissions of greenhouse gases ("GHG") and other human activities have or will cause significant changes in weather patterns and increase the frequency or severity of extreme weather events, including droughts, wildfires and flooding. These types of extreme weather events have and may continue to adversely impact us, our suppliers, our customers and their ability to purchase our products and our ability to timely receive appropriate raw materials to manufacture and transport our products on a timely basis.

We believe it is likely that the scientific and political attention to issues concerning the extent and causes of climate change will continue, with new and more restrictive legislation regulations and focus on environmental, social and governance ("ESG") initiatives that could affect our financial condition, results of operations and cash flows. Foreign, federal, state and local regulatory and legislative bodies such as the Security and Exchange Commission have enacted or proposed various legislative and regulatory measures relating to increased transparency and standardization of reporting related to factors that may include climate change, regulating GHG emissions, recycling of plastic materials, and energy policies, including waste tax, and other governmental charges and mandates. If such For instance, it is anticipated that the Securities and Exchange Commission will issue a climate change disclosure rule in 2024, which, if implemented as proposed, would significantly expand climate-related disclosure obligations. The State of California has enacted legislation or that will require large U.S. companies doing business in California to make broad-based climate-related disclosures starting as early as 2026, and other states are also considering new climate change disclosure requirements. In addition, the European Union Corporate Sustainability Reporting Directive ("CSRD") became effective in 2023. CSRD applies to both EU and non-EU in-scope entities and would require them to provide expansive disclosures on various sustainability topics. We are assessing our obligations under CSRD and expect that compliance could require substantial effort in the future. We will likely need to be prepared to contend with overlapping, yet distinct, climate-related disclosure requirements in multiple jurisdictions. The compliance with foreign, federal, state and local legislation and regulations are enacted, we could incur increased energy, environmental and other concerning climate-related disclosures may result in our Company incurring additional costs and capital expenditures, and the failure to comply with the limitations. Failure to comply with these such legislation and regulations could result in fines to our Company and could affect our business, financial condition, results of operations and cash flows. We could also face increased costs related to defending and resolving legal claims and other litigation related to climate change and the alleged impact of our operations on climate change.

We, along with other companies in many business sectors, including our customers, are considering and implementing ESG and sustainability strategies, specifically ways to reduce GHG emissions. As a result, our customers may request that changes be made to our products or facilities, as well as other aspects of our production processes, that increase costs and may require the investment of capital. The failure to comply with these requests could adversely affect our relationships with some customers, which in turn could adversely affect our business, financial condition, results of operations and cash flows.

#### ***We may be Unable to Achieve Our Greenhouse Gas Emission Reduction Targets by 2030.***

In April 2021, we announced a GHG emission reduction target to reduce our absolute Scope 1 and 2 emissions by 28 percent by 2030 as part of our ESG and sustainability strategy. Achievement of these targets depends on our execution of operational strategies relating to investments in energy efficient equipment and options to utilize other alternative energy sources. Execution of these strategies and achievements of our 2030 target is subject to risk and uncertainties, many of which are out of our control. These risks and uncertainties include, but are not limited to our ability to execute our strategies and achieve our goals within the currently projected costs and expected timeframes; availability, use and success of on and off-site renewable energy; availability and cost of zero-emissions electric equipment and vehicles; outcome of research efforts and future technology developments such as growing our post-consumer resin product offerings and downgauging our current portfolio; availability of purchasing high quality recycled materials; growing our life cycle services network; the increased cost and availability of virtual power purchase agreements; and the long timeline to complete certain sustainability projects. There are no assurances that we will be able to successfully execute our strategies and achieve our 2030 targets. Failure to achieve our targets could damage our reputation, customer and investor relationships or our access to financing. Further, given investors' increased focus related to environmental, social and governance matters, such a failure could cause stockholders to reduce their ownership holdings, all of which, in turn could adversely affect our business, financial condition, results of operations and cash flows and reduce our stock price.

#### ***Legislation/Regulation Related to Environmental and Health and Safety Matters and Corporate Social Responsibility Could Negatively Impact our Operations and Financial Performance.***

We must comply with extensive laws, rules and regulations in the United States and in each of the countries where we conduct business regarding environmental matters, such as air, soil and water quality and waste disposal. We must also comply with extensive laws, rules and regulations regarding safety, health and corporate social responsibility matters. There can be no assurance that compliance with existing and new laws, rules and regulations will not require significant expenditures.

In addition, laws, rules and regulations, as well as the interpretation and administration of such laws and regulations by governmental agencies, can change and restrict or prohibit the manner in which we conduct our current operations, require additional permits to engage in some or all of our current operations, or increase the cost of some or all our operations. For example, the U.S. EPA has indicated potential forthcoming changes to the regulatory framework that may impact our reconditioning business requiring a change to our processes and operations going forward. Such changes could adversely affect our business, financial condition, results of operations and cash flows.

We are also subject to transportation safety regulations promulgated by the U.S. Department of Transportation ("DOT") and agencies in other jurisdictions. Both the DOT regulations and standards issued by the United Nations and adopted by various jurisdictions outside the United States set forth requirements related to the transportation of both hazardous and nonhazardous materials in some of our packaging products and subject our Company to random inspections and testing to ensure compliance. Failure to comply could result in fines to us and could affect our business, financial condition, results of operations and cash flows.

We are subject to laws, rules and regulations relating to certain raw materials used in our business or present in our products. For example, certain resins and epoxy-based coatings used in our rigid container business may contain Bisphenol-A ("BPA"), a chemical monomer that can be toxic in sufficient quantities, and is used in several food contact applications. Regulatory agencies in several jurisdictions worldwide have found these materials to be safe for food contact at current levels, but a significant change in regulatory rulings concerning BPA could have an adverse effect on our business. In addition, per- and polyfluoroalkyl substances ("PFAS") are a group of chemicals that have been manufactured and used in consumer and industrial products with properties that resist oil, water, temperature, chemicals and fire. The strength of these since the 1940's. PFAS compounds also means that they do not easily degrade and have been shown to accumulate over time in the environment. In the U.S., Europe and other countries where we operate, there is heightened governmental and regulatory scrutiny on PFAS usage in packaging products and its role in the contamination of soil, air and water, specifically in drinking water. Governmental inquiries or lawsuits involving PFAS could lead to us incurring liability for damages or other costs, civil proceedings, including personal injury claims, class actions, the imposition of fines and penalties, or other remedies, as well as restrictions on or added costs for our business operations going forward. These laws, rules and regulations, as well as investigations and resulting claims by individuals and other businesses, could adversely affect our reputation with our customers generally, and could adversely affect our business, financial condition, results of operations and cash flows.

At the EU-level, many laws and regulations are designed to protect human health and the environment. For example, Directive 2004/35/EC concerns obligations to remedy damages to the environment, which could require us to remediate contamination identified at sites we own or use. Other EU regulations and directives limit pollution from industrial

activities, reduce emissions to air, water and soil, protect water resources, reduce waste, promote recycling, reuse or reduction of materials used, achieving a circular economy, protect employee health and safety and regulate the registration, evaluation, authorization and restriction of chemicals. The European Commission published its "Fit for 55" package in July 2021; a collection of new legislative proposals and amendments to existing rules aimed at implementing the EU's target of cutting greenhouse gas emissions by 55% by 2030. In addition to existing green taxes on energy use, a new EU plastic tax has been introduced. Specifically, there is heightened focus and in some cases a requirement by customers and regulators to use Post-Consumer Resin ("PCR") to manufacture more sustainable packaging. If we are unable to effectively source PCR or innovate our current product offerings to meet this demand, this could negatively affect our business and results of operations. In addition, we are closely monitoring the discussions on the proposed EU Packaging and Packaging Waste Regulation, which is currently being discussed by the European Parliament and Council with the intention to become law in 2024 and could potentially impose new requirements in terms of recycled content, recyclability and reuse for our products. Failure to comply with these and other laws, or a change in the applicable legal framework, for example the increased enforcement of environmental regulations in the U.S., Europe, China or other countries or customer requirements, could affect our business, financial condition, results of operations and cash flows, in addition to those of our customers.

Our customers in the food and pharmaceutical industry are subject to increasing laws, rules and regulations relating to safety. As a result, customers may demand that changes be made to our products or facilities, as well as other aspects of our production processes, that may require the investment of capital. The failure to comply with these requests could adversely affect our relationships with some customers and result in negative effects on our business, financial condition, results of operations and cash flows.

**Product Liability Claims and Other Legal Proceedings Could Adversely Affect our Operations and Financial Performance.**

We produce products and provide services related to other parties' products, including sensitive products such as food ingredients, pharmaceutical ingredients and hazardous substances. Incidents involving these product types can involve risk of recall, contamination, spillage, leakage, fires, and explosions, which can threaten individual health, impact the environment and cause the breakdown or failure of equipment or processes and the performance of facilities below expected levels of capacity. If any of our customers have such incidents involving our products, they may bring product liability claims against us. While we have built extensive operational processes to ensure that the design and manufacture of our products meet rigorous quality standards, there can be no assurance that we or our customers will not experience operational process failures that could result in potential product, safety, regulatory or environmental claims and associated litigation. We are also subject to a variety of legal proceedings and legal compliance risks in our areas of operation around the globe. Any such claims, whether with or without merit, could be time consuming and expensive to defend and could divert management's attention and resources. In accordance with customary practice, we maintain insurance against some, but not all, of these potential claims. In the future, we may not be able to maintain insurance at commercially acceptable premium and deductible levels at all. In addition, the levels of insurance we maintain may not be adequate to fully cover any and all losses or liabilities. If any significant judgment or claim is not fully insured or indemnified against, it could have a material adverse impact on our business, financial condition, results of operations and cash flows.

**We may Incur Fines or Penalties, Damage to our Reputation or other Adverse Consequences if our Employees, Agents or Business Partners Violate, or are Alleged to have Violated, Anti-bribery, Competition or Other Laws.**

We cannot provide assurance that our internal controls will always protect us from reckless or criminal acts committed by our employees, agents or business partners that would violate U.S. and non-U.S. laws, including anti-bribery, competition, trade sanctions and regulation, and other laws. Any such improper actions could subject us to civil or criminal investigations in the U.S. and in other jurisdictions, could lead to substantial civil or criminal monetary and non-monetary penalties against us or our subsidiaries, and could damage our reputation. Even the allegation or appearance of our employees, agents or business partners acting improperly or illegally could damage our reputation and result in significant expenditures in investigating and responding to such actions.

**ITEM 1B. UNRESOLVED STAFF COMMENTS**

None.

**ITEM 2. PROPERTIES**

The following are our principal operating locations that are either leased or owned as of **October 31, 2022** **October 31, 2023**. We consider our operating properties to be in satisfactory condition and adequate to meet our present needs. However, we expect to make further additions, improvements and consolidations of our properties to support our business. Our global headquarters is located in Delaware, Ohio, USA. We utilize two main shared service center locations, with one in North America and the other in Europe.

Location	Location	Global Industrial Packaging	Paper Packaging & Services	Total	Location	Global Industrial Packaging	Paper Packaging & Services	Total
Argentina	Argentina	3	—	3	Argentina	3	—	3
Belgium	Belgium	2	—	2	Belgium	2	—	2
Brazil	Brazil	8	—	8	Brazil	8	—	8
Canada	Canada	1	4	5	Canada	2	4	6
China	China	8	—	8	China	8	—	8
France	France	3	—	3	France	3	—	3
Germany	Germany	4	—	4	Germany	4	—	4

Hungary	Hungary	1	—	1	Hungary	1	—	1
Israel	Israel	1	—	1	Israel	1	—	1
Italy	Italy	3	—	3	Italy	3	—	3
Mexico	Mexico	2	—	2	Mexico	2	—	2
Netherlands	Netherlands	5	—	5	Netherlands	5	—	5
Poland	Poland	1	—	1	Poland	1	—	1
Portugal	Portugal	1	—	1	Portugal	1	—	1
Russia	Russia	9	—	9	Russia	8	—	8
Saudi Arabia	Saudi Arabia	2	—	2	Saudi Arabia	2	—	2
Singapore	Singapore	1	—	1	Singapore	1	—	1
Spain	Spain	3	—	3	Spain	3	—	3
Sweden	Sweden	1	—	1	Sweden	1	—	1
United Kingdom	United Kingdom	2	—	2	United Kingdom	2	—	2
United States	United States	31	78	109	United States	42	73	115
<b>Totals</b>	<b>Totals</b>	<b>92</b>	<b>82</b>	<b>174</b>	<b>Totals</b>	<b>103</b>	<b>77</b>	<b>180</b>
Global Industrial Packaging								
Classification	Classification	Packaging	Packaging & Services	Total	Classification	Industrial	Global	Packaging
Owned	Owned	60	47	107	Owned	59	41	100
Leased	Leased	32	35	67	Leased	44	36	80
<b>Totals</b>	<b>Totals</b>	<b>92</b>	<b>82</b>	<b>174</b>	<b>Totals</b>	<b>103</b>	<b>77</b>	<b>180</b>

We also own a substantial amount of timber properties. Our timber properties consisted of approximately 175,000 acres in the southeastern United States as of **October 31, 2022**. **October 31, 2023**

**ITEM 3. LEGAL PROCEEDINGS**

We are not a party to any pending legal proceedings that are material to our business or financial condition.

From time to time, we have been a party to legal proceedings arising at the country, state or local level involving environmental sites to which we have shipped, directly or indirectly, small amounts of toxic waste, such as paint solvents. As of the filing date of this Form 10-K, we have been classified only as a "de minimis" participant in such proceedings. We are not a party to any legal proceedings involving a governmental authority and arising under any federal, state or local provisions that have been enacted or adopted regulating the discharge of materials into the environment or primarily for the purpose of protecting the environment and involving potential monetary sanctions in excess of \$300,000, other than described below.

In July 2017, As previously reported under Item 3 of our Annual Report on Form 10-K for the Wisconsin Department of Natural Resources ("WDNR") issued Notices of Violation to us and fiscal year ended October 31, 2022, in November 2022, Container Life Cycle Management LLC, our U.S. reconditioning joint venture ("CLCM" ("CLCM"), reached agreement with the United States Environmental Protection Agency ("U.S. EPA") and the Wisconsin Department of Natural Resources ("WDNR") on a proposed consent decree (the "Proposed CLCM Consent Decree") that would resolve various investigations and proceedings against CLCM with respect to three reconditioning facilities in the

Milwaukee, Wisconsin area that are or were owned by CLCM regarding alleged violations of Wisconsin laws related to hazardous waste, air management and industrial storm water. In November 2017, Under the United States Environmental Protection Agency ("U.S. EPA") issued a Notice of Violation to us and CLCM with respect to these same reconditioning facilities regarding alleged violations of the federal Resource Conservation and Recovery Act ("RCRA"), primarily related to the alleged unlawful storage and treatment of hazardous wastes without RCRA licenses and alleged violations of RCRA's requirements related to hazardous waste determinations and hazardous waste activity notifications, and Wisconsin laws related to hazardous waste. In November 2017, the U.S. EPA issued Notices and Findings of Violations to CLCM with respect to two of these reconditioning facilities regarding alleged violations of the federal Clean Air Act, primarily related to air management, and Wisconsin laws related to air management. The U.S. EPA and the WDNR have rescinded the Notices of Violations relating to us and have reached agreement with CLCM on a proposed consent decree that would resolve these investigations and proceedings against CLCM (the "Proposed CLCM Consent Decree"). Decree, CLCM, without admitting any wrongdoing, agreed to modify certain existing operational practices, install and operate specific environmental controls and pay civil penalties of approximately \$1.6 million. On November 30, 2022, the U.S. EPA and the WDNR filed an action in the U.S. District Court, Eastern District of Wisconsin (the "Court"), seeking the Court's approval of the Proposed CLCM Consent Decree. Under On July 27, 2023, the Court approved the Proposed CLCM Consent Decree CLCM, without admitting any wrongdoing, has agreed to modify certain existing operational practices, install and operate specific environmental controls and pay as presented. The civil penalties of approximately \$1.6 million. The Proposed CLCM Consent Decree is not final and effective unless and until approved have been paid by the Court, CLCM.

#### ITEM 4. MINE SAFETY DISCLOSURES

None.

## PART II

## ITEM 5. MARKET FOR THE REGISTRANT'S COMMON EQUITY, RELATED STOCKHOLDER MATTERS AND ISSUER PURCHASES OF EQUITY SECURITIES

Shares of our Class A and Class B Common Stock are listed on the New York Stock Exchange under the symbols GEF and GEF.B, respectively.

As of December 12, 2022 December 12, 2023, there were 328,312 stockholders of record of the Class A Common Stock and 5853 stockholders of record of the Class B Common Stock.

We pay quarterly dividends of varying amounts computed on the basis described in Note 11 of the Notes to Consolidated Financial Statements included in Item 8 of this Form 10-K. The annual dividends paid for the last two years are as follows:

**2023 Dividends per Share – Class A \$2.02; Class B \$3.02**

**2022 Dividends per Share – Class A \$1.88; Class B \$2.81**

**2021 Dividends per Share – Class A \$1.78; Class B \$2.66**

The terms of our current secured credit facilities and United States accounts receivable credit facility limit our ability to make restricted payments, which include dividends and purchases, redemptions and acquisitions of our equity interests. The payment of dividends and other restricted payments are subject to the condition that certain defaults do not exist under the terms of our current secured credit facilities and United States accounts receivable credit facility and, in the event that certain defaults exist, are limited in amount by a formula based, in part, on our consolidated net income. See "Liquidity and Capital Resources – Borrowing Arrangements" in Item 7 of this Form 10-K.

### Purchases of Equity Securities by the Issuer

In June 2022, the Stock Repurchase Committee of our Board of Directors authorized a program to repurchase up to \$150.0 million of shares of our Class A or Class B Common Stock or any combination thereof. On June 23, 2022, we entered into a \$75.0 million accelerated share repurchase agreement ("ASR" ("ASR") with Bank of America, N.A. for the repurchase of shares of our Class A Common Stock. In addition, at that time we initiated a plan to repurchase an aggregate of \$75.0 million of shares of our Class A or Class B Common Stock, or any combination thereof, in open market purchases ("("OSR program" program").

Under the ASR, on June 24, 2022, we made a payment of \$75.0 million and received an initial delivery of approximately 80% of the expected share repurchases, or 1,021,451 shares of Class A Common Stock, with any Stock. On February 28, 2023, we received the remaining shares expected to be delivered by our second quarter 2023. The ASR has been accounted for as a purchase of 94,259 shares of Class A Common Stock and a forward purchase contract. The final number of shares of Class A Common Stock to be repurchased will be based on the volume-weighted average price of the shares of our Class A Common Stock during the term of the ASR less a discount. We have treated the shares of Class A Common Stock delivered as treasury shares as of the date the shares were physically delivered in computing the weighted average shares outstanding of Class A Common Stock for both basic and diluted earnings per share. The forward stock purchase contract was determined to be indexed to our own stock and met all of the applicable criteria for equity classification. Stock.

We began making repurchases of Class B Common Stock under the OSR program on September 9, 2022, and we may continue to make open market repurchases over of Class A Common Stock under the next 12 to 18 months under this OSR program all on March 16, 2023 in accordance with Rule 10b-18 promulgated under the Securities Exchange Act of 1934. The timing of any such repurchases will depend OSR program was completed on market conditions and will be made at our discretion. While we intend to repurchase up to \$75.0 May 26, 2023, with \$25.0 million of shares we are not obligated to repurchase any dollar amount of Class A Common Stock, or number or class of 406,343 shares, and may suspend or discontinue repurchases at any time. As \$50.0 million of October 31, 2022, 170,980 shares of Class B Common Stock, had been or 676,598 shares, being repurchased under the OSR program.

See Note 11 of the Notes to Consolidated Financial Statements included in Item 8 of this Form 10-K for additional information regarding this program and the repurchase of shares of Class A and B Common Stock.

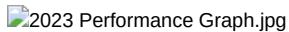
During the three months ended October 31, 2022, our repurchases of shares of our Class A and Class B Common Stock were as follows:

Period	Total Number of		Total Number of		Total Number of		Approximate Dollar Value That May Yet be Purchased Under the Program
	Shares of Class A	Average Price Paid per Share of Class A	Shares of Class B	Average Price Paid per Share of Class B	Shares Purchased as Part of Publicly Announced Program	Purchased	
	Purchased	Common Stock*	Purchased	Common Stock*	Purchased	Common Stock*	
August 1 to August 31, 2022	—	\$ —	—	\$ —	—	—	\$ 75,000,000
September 1 to September 30, 2022	—	—	68,117	63.68	68,117	68,117	70,662,545
October 1 to October 31, 2022	—	—	102,863	65.87	102,863	102,863	63,887,403
Total	—	—	170,980	64.99	170,980	170,980	—

\*Average price paid per share reflects the weighted average purchase price paid for shares.

### Performance Graph

The following graph compares the performance of shares of our Class A and B Common Stock to that of the Standard and Poor's 500 ("S&P 500") Index and the Dow Jones United States Containers and Packaging Index ("DJUSCP" ("DJUSCP")) assuming \$100 invested on October 31, 2017 October 31, 2018 and reinvestment of dividends for each subsequent year. The graph does not purport to represent our value.

2023 Performance Graph.jpg

## ITEM 7. MANAGEMENT'S DISCUSSION AND ANALYSIS OF FINANCIAL CONDITION AND RESULTS OF OPERATIONS

The terms "Greif," the "Company," "we," "us" and "our" as used in this discussion refer to Greif, Inc. and its subsidiaries.

### RESULTS OF OPERATIONS

The discussion and analysis of our financial condition and results of operations are based upon our consolidated financial statements, which have been prepared in accordance with U.S. Generally Accepted Accounting Principles ("GAAP" ("GAAP"). The preparation of these consolidated financial statements, in accordance with these principles, require us to make estimates and assumptions that affect the reported amount of assets and liabilities, revenues and expenses, and related disclosure of contingent assets and liabilities at the date of our consolidated financial statements.

Historical revenues and earnings may or may not be representative of future operating results due to various economic and other factors. See "Risk Factors" "Risk Factors" in Item 1A of this Form 10-K.

The non-GAAP financial measures of EBITDA and Adjusted EBITDA are used throughout the following discussion of our results of operations, both for our consolidated and segment results. For our consolidated results, EBITDA is defined as net income, plus interest expense, net, plus debt extinguishment charges, plus income tax expense, plus depreciation, depletion and amortization, and Adjusted EBITDA is defined as EBITDA plus restructuring charges, plus timberland gains, net, plus acquisition and integration related costs, plus non-cash asset impairment charges, plus non-cash pension settlement (income) charges, plus incremental COVID-19 costs, net, plus (gain) loss on disposal of properties, plants, equipment and businesses, net.

Since we do not calculate net income by reportable segment, EBITDA and Adjusted EBITDA by reportable segment are reconciled to operating profit by reportable segment. In that case, EBITDA is defined as operating profit by reportable segment less other (income) expense, net, less non-cash pension settlement (income) charges, less equity earnings of unconsolidated affiliates, net of tax, plus depreciation, depletion and amortization expense for that reportable segment, and Adjusted EBITDA is defined as EBITDA plus restructuring charges, plus timberland gains, net, plus acquisition and integration related costs, plus non-cash asset impairment charges, plus non-cash pension settlement (income) charges, plus incremental COVID-19 costs, net, plus (gain) loss on disposal of properties, plants, equipment and businesses, net, for that reportable segment.

We use EBITDA and Adjusted EBITDA as financial measures to evaluate our historical and ongoing operations and believe that these non-GAAP financial measures are useful to enable investors to perform meaningful comparisons of our historical and current performance. The foregoing non-GAAP financial measures are intended to supplement and should be read together with our financial results. These non-GAAP financial measures should not be considered an alternative or substitute for, and should not be considered superior to, our reported financial results. Accordingly, users of this financial information should not place undue reliance on the non-GAAP financial measures.

The following table sets forth the net sales, operating profit, EBITDA and Adjusted EBITDA for each of our reportable segments for 2023, 2022 2021 and 2020: 2021:

Year Ended October 31, (in millions)	Year Ended October 31, (in millions)			2022	2021	2020	Year Ended October 31, (in millions)	Year Ended October 31, (in millions)			2023	2022	2021	
<b>Net sales:</b>	<b>Net sales:</b>						<b>Net sales:</b>							
Global Industrial Packaging	Global Industrial Packaging	\$	3,652.4	\$	3,316.7	\$	2,571.8	Global Industrial Packaging	\$	2,936.8	\$	3,652.4	\$	3,316.7
Paper Packaging & Services	Paper Packaging & Services		2,675.1		2,218.4		1,916.9	Paper Packaging & Services		2,260.5		2,675.1		2,218.4
Land Management	Land Management		22.0		21.0		26.3	Land Management		21.3		22.0		21.0
Total net sales	Total net sales	\$	6,349.5	\$	5,556.1	\$	4,515.0	Total net sales	\$	5,218.6	\$	6,349.5	\$	5,556.1
<b>Operating profit:</b>	<b>Operating profit:</b>						<b>Operating profit:</b>							
Global Industrial Packaging	Global Industrial Packaging	\$	313.7	\$	350.2	\$	225.4	Global Industrial Packaging	\$	334.3	\$	313.7	\$	350.2
Paper Packaging & Services	Paper Packaging & Services		298.5		131.0		71.0	Paper Packaging & Services		264.1		298.5		131.0
Land Management	Land Management		9.0		104.0		8.5	Land Management		7.1		9.0		104.0

Total operating profit	Total operating profit	\$ 621.2	\$ 585.2	\$ 304.9	Total operating profit	\$ 605.5	\$ 621.2	\$ 585.2
<b>EBITDA:</b>	<b>EBITDA:</b>				<b>EBITDA:</b>			
Global Industrial Packaging	Global Industrial Packaging	\$ 383.5	\$ 432.7	\$ 307.0	Global Industrial Packaging	\$ 415.7	\$ 383.5	\$ 432.7
Paper Packaging & Services	Paper Packaging & Services	439.0	269.9	225.9	Paper Packaging & Services	398.8	439.0	269.9
Land Management	Land Management	11.8	107.3	13.0	Land Management	9.3	11.8	107.3
Total EBITDA	Total EBITDA	\$ 834.3	\$ 809.9	\$ 545.9	Total EBITDA	\$ 823.8	\$ 834.3	\$ 809.9
<b>Adjusted EBITDA:</b>	<b>Adjusted EBITDA:</b>				<b>Adjusted EBITDA:</b>			
Global Industrial Packaging	Global Industrial Packaging	\$ 458.2	\$ 453.3	\$ 324.3	Global Industrial Packaging	\$ 423.7	\$ 458.2	\$ 453.3
Paper Packaging & Services	Paper Packaging & Services	450.5	302.0	306.4	Paper Packaging & Services	386.2	450.5	302.0
Land Management	Land Management	8.8	8.9	11.9	Land Management	8.9	8.8	8.9
Total Adjusted EBITDA	Total Adjusted EBITDA	\$ 917.5	\$ 764.2	\$ 642.6	Total Adjusted EBITDA	\$ 818.8	\$ 917.5	\$ 764.2

The following table sets forth EBITDA and Adjusted EBITDA, reconciled to net income and operating profit, for our consolidated results for 2023, 2022 2021 and 2020: 2021:

Year Ended October 31, (in millions)	Year Ended October 31, (in millions)	2022	2021	2020	Year Ended October 31, (in millions)	2023	2022	2021
Net income	Net income	\$ 394.0	\$ 413.2	\$ 124.3	Net income	\$ 379.1	\$ 394.0	\$ 413.2
Plus: interest expense, net	Plus: interest expense, net	61.2	92.7	115.8	Plus: interest expense, net	96.3	61.2	92.7
Plus: debt extinguishment charges	Plus: debt extinguishment charges	25.4	—	—	Plus: debt extinguishment charges	—	25.4	—
Plus: income tax expense	Plus: income tax expense	137.1	69.6	63.3	Plus: income tax expense	117.8	137.1	69.6
Plus: depreciation, depletion and amortization expense	Plus: depreciation, depletion and amortization expense	216.6	234.4	242.5	Plus: depreciation, depletion and amortization expense	230.6	216.6	234.4
EBITDA	EBITDA	\$ 834.3	\$ 809.9	\$ 545.9	EBITDA	\$ 823.8	\$ 834.3	\$ 809.9
Net income	Net income	\$ 394.0	\$ 413.2	\$ 124.3	Net income	\$ 379.1	\$ 394.0	\$ 413.2
Plus: interest expense, net	Plus: interest expense, net	61.2	92.7	115.8	Plus: interest expense, net	96.3	61.2	92.7
Plus: debt extinguishment charges	Plus: debt extinguishment charges	25.4	—	—	Plus: debt extinguishment charges	—	25.4	—
Plus: income tax expense	Plus: income tax expense	137.1	69.6	63.3	Plus: income tax expense	117.8	137.1	69.6

Plus: other expense, net					Plus: other expense, net	11.0	8.9	4.8
Plus: non-cash pension settlement charges	Plus: non-cash pension settlement charges	—	9.1	0.3	Plus: non-cash pension settlement charges	3.5	—	9.1
Plus: other expense, net		8.9	4.8	2.7				
Plus: equity earnings of unconsolidated affiliates, net of tax	Plus: equity earnings of unconsolidated affiliates, net of tax	(5.4)	(4.2)	(1.5)	Plus: equity earnings of unconsolidated affiliates, net of tax	(2.2)	(5.4)	(4.2)
Operating profit	Operating profit	621.2	585.2	304.9	Operating profit	605.5	621.2	585.2
Less: other expense, net	Less: other expense, net	8.9	4.8	2.7	Less: other expense, net	11.0	8.9	4.8
Less: non-cash pension settlement charges	Less: non-cash pension settlement charges	—	9.1	0.3	Less: non-cash pension settlement charges	3.5	—	9.1
Less: equity earnings of unconsolidated affiliates, net of tax	Less: equity earnings of unconsolidated affiliates, net of tax	(5.4)	(4.2)	(1.5)	Less: equity earnings of unconsolidated affiliates, net of tax	(2.2)	(5.4)	(4.2)
Plus: depreciation, depletion and amortization expense	Plus: depreciation, depletion and amortization expense	216.6	234.4	242.5	Plus: depreciation, depletion and amortization expense	230.6	216.6	234.4
EBITDA	EBITDA	834.3	809.9	545.9	EBITDA	823.8	834.3	809.9
Plus: restructuring charges	Plus: restructuring charges	13.0	23.1	38.7	Plus: restructuring charges	18.7	13.0	23.1
Plus: timberland gains, net	Plus: timberland gains, net	—	(95.7)	—	Plus: timberland gains, net	—	—	(95.7)
Plus: acquisition and integration related costs	Plus: acquisition and integration related costs	8.7	9.1	17.0	Plus: acquisition and integration related costs	19.0	8.7	9.1
Plus: non-cash asset impairment charges	Plus: non-cash asset impairment charges	71.0	8.9	18.5	Plus: non-cash asset impairment charges	20.3	71.0	8.9
Plus: non-cash pension settlement charges	Plus: non-cash pension settlement charges	—	9.1	0.3	Plus: non-cash pension settlement charges	3.5	—	9.1
Plus: incremental COVID-19 costs, net	Plus: incremental COVID-19 costs, net	—	3.3	2.6	Plus: incremental COVID-19 costs, net	—	—	3.3
Plus: (gain) loss on disposal of properties, plants, equipment, and businesses, net		(9.5)	(3.5)	19.6				
Plus: gain on disposal of properties, plants, equipment, and businesses, net					Plus: gain on disposal of properties, plants, equipment, and businesses, net	(66.5)	(9.5)	(3.5)
Adjusted EBITDA	Adjusted EBITDA	\$ 917.5	\$ 764.2	\$ 642.6	Adjusted EBITDA	\$ 818.8	\$ 917.5	\$ 764.2

The following table sets forth EBITDA and Adjusted EBITDA for each of our reportable segments, reconciled to the operating profit for each reportable segment, for 2023, 2022, 2021 and 2020.

Year Ended October 31, (in millions)	Year Ended October 31, (in millions)			Year Ended October 31, (in millions)	Year Ended October 31, (in millions)		
	2022	2021	2020		2023	2022	2021
<b>Global Industrial Packaging</b>							
Operating profit	Operating profit	\$ 313.7	\$ 350.2	\$ 225.4	Operating profit	\$ 334.3	\$ 313.7
Less: other expense, net	Less: other expense, net	9.5	4.5	4.0	Less: other expense, net	12.6	9.5
Less: non-cash pension settlement charges	Less: non-cash pension settlement charges	—	0.3	0.4	Less: non-cash pension settlement charges	3.5	—
Less: equity earnings of unconsolidated affiliates, net of tax	Less: equity earnings of unconsolidated affiliates, net of tax	(5.4)	(4.2)	(1.5)	Less: equity earnings of unconsolidated affiliates, net of tax	(2.2)	(5.4)
Plus: depreciation and amortization expense	Plus: depreciation and amortization expense	73.9	83.1	84.5	Plus: depreciation and amortization expense	95.3	73.9
<b>EBITDA</b>	<b>EBITDA</b>	<b>383.5</b>	<b>432.7</b>	<b>307.0</b>	<b>EBITDA</b>	<b>415.7</b>	<b>383.5</b>
Plus: restructuring charges	Plus: restructuring charges	9.1	17.1	28.8	Plus: restructuring charges	4.2	9.1
Plus: acquisition and integration related costs	Plus: acquisition and integration related costs	0.4	—	—	Plus: acquisition and integration related costs	12.2	0.4
Plus: non-cash asset impairment charges	Plus: non-cash asset impairment charges	69.4	2.7	6.0	Plus: non-cash asset impairment charges	1.9	69.4
Plus: non-cash pension settlement charges	Plus: non-cash pension settlement charges	—	0.3	0.4	Plus: non-cash pension settlement charges	3.5	—
Plus: incremental COVID-19 costs, net	Plus: incremental COVID-19 costs, net	—	1.8	0.7	Plus: incremental COVID-19 costs, net	—	1.8
Plus: gain on disposal of properties, plants, equipment, and businesses, net	Plus: gain on disposal of properties, plants, equipment, and businesses, net	(4.2)	(1.3)	(18.6)	Plus: gain on disposal of properties, plants, equipment, and businesses, net	(13.8)	(4.2)
<b>Adjusted EBITDA</b>	<b>Adjusted EBITDA</b>	<b>\$ 458.2</b>	<b>\$ 453.3</b>	<b>\$ 324.3</b>	<b>Adjusted EBITDA</b>	<b>\$ 423.7</b>	<b>\$ 458.2</b>
<b>Paper Packaging &amp; Services</b>							
Operating profit	Operating profit	\$ 298.5	\$ 131.0	\$ 71.0	Operating profit	\$ 264.1	\$ 131.0
Less: other (income) expense, net	Less: other (income) expense, net	(0.6)	0.3	(1.3)	Less: other (income) expense, net	(1.6)	0.3
Less: non-cash pension settlement charges (income)	—	8.8	(0.1)				

Less: non-cash pension settlement charges					Less: non-cash pension settlement charges				
Plus: depreciation and amortization expense	Plus: depreciation and amortization expense	139.9	148.0	153.5	Plus: depreciation and amortization expense	133.1	139.9	148.0	8.8
EBITDA	EBITDA	439.0	269.9	225.9	EBITDA	398.8	439.0	269.9	
Plus: restructuring charges	Plus: restructuring charges	3.9	5.9	9.9	Plus: restructuring charges	14.5	3.9	5.9	
Plus: acquisition and integration related costs	Plus: acquisition and integration related costs	8.3	9.1	17.0	Plus: acquisition and integration related costs	6.8	8.3	9.1	
Plus: non-cash asset impairment charges	Plus: non-cash asset impairment charges	1.6	5.0	12.5	Plus: non-cash asset impairment charges	18.4	1.6	5.0	
Plus: non-cash pension settlement charges (income)		—	8.8	(0.1)					
Plus: non-cash pension settlement charges					Plus: non-cash pension settlement charges				8.8
Plus: incremental COVID-19 costs, net	Plus: incremental COVID-19 costs, net	—	1.5	1.9	Plus: incremental COVID-19 costs, net	—	—	1.5	
Plus: (gain) loss on disposal of properties, plants, equipment, and businesses, net	Plus: (gain) loss on disposal of properties, plants, equipment, and businesses, net	(2.3)	1.8	39.3	Plus: (gain) loss on disposal of properties, plants, equipment, and businesses, net	(52.3)	(2.3)	1.8	
Adjusted EBITDA	Adjusted EBITDA	\$ 450.5	\$ 302.0	\$ 306.4	Adjusted EBITDA	\$ 386.2	\$ 450.5	\$ 302.0	
<b>Land Management</b>	<b>Land Management</b>				<b>Land Management</b>				
Operating profit	Operating profit	\$ 9.0	\$ 104.0	\$ 8.5	Operating profit	\$ 7.1	\$ 9.0	\$ 104.0	
Plus: depreciation and depletion expense	Plus: depreciation and depletion expense	2.8	3.3	4.5	Plus: depreciation and depletion expense	2.2	2.8	3.3	
EBITDA	EBITDA	11.8	107.3	13.0	EBITDA	9.3	11.8	107.3	
Plus: restructuring charges	Plus: restructuring charges	—	0.1	—	Plus: restructuring charges	—	—	0.1	
Plus: timberland gains, net	Plus: timberland gains, net	—	(95.7)	—	Plus: timberland gains, net	—	—	(95.7)	
Plus: non-cash asset impairment charges	Plus: non-cash asset impairment charges	—	1.2	—	Plus: non-cash asset impairment charges	—	—	1.2	
Plus: gain on disposal of properties, plants, equipment, and businesses, net	Plus: gain on disposal of properties, plants, equipment, and businesses, net	(3.0)	(4.0)	(1.1)	Plus: gain on disposal of properties, plants, equipment, and businesses, net	(0.4)	(3.0)	(4.0)	
Adjusted EBITDA	Adjusted EBITDA	\$ 8.8	\$ 8.9	\$ 11.9	Adjusted EBITDA	\$ 8.9	\$ 8.8	\$ 8.9	

Year **2022** **2023** Compared to Year **2021** **2022**

**Net Sales**

Net sales were \$5,218.6 million for 2023 compared with \$6,349.5 million for 2022 compared with \$5,556.1 million for 2021. The \$793.4 million increase \$1,130.9 million decrease was primarily due to higher average selling prices and lower volumes across the reportable segments, partially offset by lower volumes, foreign currency translation, Global Industrial Packaging segment and the Paper Packaging & Services segment and the \$148.8 million impact to net sales resulting from the divestiture sale of our approximately 50% equity interest in the Flexibles Product Flexible Products & Services business in the second quarter of 2022 (the "FPS Divestiture" "FPS Divestiture"). See the "Segment Review" "Segment Review" below for additional information on net sales by reportable segment during 2021.

#### **Gross Profit**

Gross profit increased \$192.4 million to was \$1,146.1 million for 2023 compared with \$1,285.4 million for 2022 from \$1,093.0 million 2022. The \$139.3 million decrease was primarily due to the same factors that impacted net sales, partially offset by lower raw material, transportation and manufacturing costs. See the "Segment Review" below for 2021. The respective reasons for changes in additional information on gross profit for each by reportable segment are described below in the "Segment Review" segment. Gross profit margin was 22.0 percent for 2023 compared to 20.2 percent for 2022 compared to 19.7 percent for 2021. 2022.

#### **Selling, General and Administrative Expenses**

Selling, general and administrative ("SG&A") expenses increased \$15.1 million to were \$549.1 million for 2023 compared with \$581.0 million for 2022 from \$565.9 million for 2021. 2022. The \$31.9 million decrease was primarily due to incentive compensation expense reduction. SG&A expenses were 10.5 percent of net sales for 2023 compared with 9.2 percent of net sales for 2022 compared with 10.2 percent of net sales for 2021. 2022.

#### **Financial Measures**

Operating profit was \$605.5 million for 2023 compared with \$621.2 million for 2022 compared with \$585.2 million for 2021. 2022. Net income was \$379.1 million for 2023 compared with \$394.0 million for 2022 compared with \$413.2 million for 2021. 2022. Adjusted EBITDA was \$818.8 million for 2023 compared with \$917.5 million for 2022 compared with \$764.2 million for 2021. 2022. The respective reasons for the improvement or decline changes in operating profit and Adjusted EBITDA as the case may be, for each reportable segment are described below in the "Segment" "Segment Review.".

#### **Trends**

We anticipate that overall the lower customer demand patterns that we experienced throughout the 2023 fiscal year will continue into the 2024 fiscal year. Although we have seen some increase in demand for our Global Industrial Packaging containerboard products will continue to weaken through the first quarter and remain soft through the second quarter due to the unsettled macroeconomic environment. In addition, we expect steel prices to continue to decline in Europe and North America through the first quarter, which will continue to compress gross profit margins in the Global Industrial Packaging business segment through U.S. the second quarter. During past two months, we do not see that as an overall inflection point.

We expect the second half of the year, we expect customer demand to improve and higher priced prices for steel, inventory to work through our system, which in turn will improve gross profit margins.

In our Paper Packaging and Services business segment, we anticipate that weakness in customer demand will continue through the first quarter and the beginning of the second quarter and then start to sequentially improve, particularly over the second half of the year. The price of old corrugated containers, will remain stable into the second quarter, but then start to increase throughout the year.

We anticipate resin prices and the prices of other direct materials, as well as prices for transportation, labor and utilities, to remain relatively stable through the year.

We continue to actively monitor the impact and consequences of the Russian invasion of Ukraine by Russia. Ukraine. As of October 31, 2022 October 31, 2023, our operations in Russia account for approximately 34 percent of our total net sales, approximately 69 percent of our operating profit and approximately 2 percent of our total assets.

The foregoing discussion of 2024 trends in our businesses does not consider the impact of our proposed acquisition of Ipackchem. See Item 1(g) of this Form 10-K, Recent Events - Proposed Acquisition of Ipackchem, for information concerning this proposed acquisition.

#### **Segment Review**

##### **Global Industrial Packaging**

Key factors influencing profitability in the Global Industrial Packaging reportable segment are:

- Selling prices, product mix, customer demand and sales volumes;
- Raw material costs, primarily steel, resin, containerboard and used industrial packaging for reconditioning;
- Energy and transportation costs;
- Benefits from executing the Greif Business System;
- Restructuring charges;
- Acquisition of businesses and facilities;

- Divestiture of businesses and facilities; and
- Impact of foreign currency translation.

Net sales were \$2,936.8 million for 2023 compared with \$3,652.4 million for 2022 compared with \$3,316.7 million for 2021. The \$335.7 million increase \$715.6 million decrease in net sales was primarily due to higher average sale prices, partially offset by lower volumes, foreign currency translation and lower average selling prices as a result of contractual price adjustment mechanisms, the \$148.8 million impact to net sales resulting from the FPS Divestiture, Divestiture and negative foreign currency translation impacts.

Gross profit was \$634.4 million for 2023 compared with \$692.6 million for 2022 compared with \$684.1 million for 2021. The \$8.5 million increase \$58.2 million decrease in gross profit was primarily due to the same factors that impacted net sales, partially offset by higher lower raw material, utility transportation and transportation manufacturing costs. Gross profit margin decreased increased to 21.6 percent in 2023 from 19.0 percent in 2022 from 20.6 percent in 2021.

Operating profit was \$334.3 million for 2023 compared with \$313.7 million for 2022 compared with \$350.2 million for 2021. The \$36.5 million decrease \$20.6 million increase was primarily due to the \$62.4 million non-cash impairment charge during the first quarter of 2022 related to the FPS Divestiture, a \$9.8 million gain recognized on our previously held minority ownership interest in Centurion and lower SG&A expenses, partially offset by the same factors that increased impacted gross profit and a reduction in SG&A expenses. profit. Adjusted EBITDA was \$423.7 million for 2023 compared with \$458.2 million for 2022 compared with \$453.3 million for 2021. The \$4.9 million increase \$34.5 million decrease was primarily due to the same factors that impacted gross profit, profit, partially offset by lower SG&A expenses.

#### Paper Packaging & Services

Key factors influencing profitability in the Paper Packaging & Services reportable segment are:

- Selling prices, product mix, customer demand and sales volumes;
- Raw material costs, primarily old corrugated containers;
- Energy and transportation costs;
- Benefits from executing the Greif Business System;
- Restructuring charges;
- Acquisition of businesses and facilities; and
- Divestiture of businesses and facilities.

Net sales were \$2,260.5 million for 2023 compared with \$2,675.1 million for 2022 compared with \$2,218.4 million for 2021. The \$456.7 million increase \$414.6 million decrease was primarily due to higher lower volumes and lower average sale selling prices of due to lower published containerboard and boxboard, partially offset by lower volumes, prices.

Gross profit was \$502.5 million for 2023 compared with \$584.5 million for 2022 compared with \$401.3 million for 2021. The \$183.2 million increase \$82.0 million decrease in gross profit was primarily due to the same factors that impacted net sales, partially offset by higher lower old corrugated container and other raw material input costs, as well as lower transportation labor, and utility labor costs. Gross profit margin increased to 22.2 percent in 2023 from 21.8 percent in 2022 from 18.1 percent in 2021.

Operating profit was \$264.1 million for 2023 compared with \$298.5 million for 2022 compared with \$131.0 million for 2021. The \$167.5 million increase \$34.4 million decrease in operating profit was primarily due to the same factors that impacted gross profit, partially offset by higher the \$54.3 million gain from the divestiture of Tama Paperboard, LLC in the Paper Packaging & Services segment (the "Tama Divestiture") during the first quarter of 2023 and lower SG&A expenses. Adjusted EBITDA was \$386.2 million for 2023 compared with \$450.5 million for 2022 compared with \$302.0 million for 2021. The \$148.5 million increase \$64.3 million decrease was primarily due primarily to the same factors that impacted operating profit, gross profit, partially offset by lower SG&A expenses.

#### Land Management

As of October 31, 2022 October 31, 2023, our Land Management reportable segment consisted of approximately 175,000 acres of timber properties in the southeastern United States. Key factors influencing profitability in the Land Management reportable segment are:

- Planned level of timber sales;
- Selling prices and customer demand;
- Gains on timberland sales; and
- Gains on the disposal of development, surplus and HBU properties ("special use property").

As of October 31, 2022, we estimated that there were 18,800 acres in the United States of special use property, which we expect will be available for sale in the next four to six years.

Net sales increased to were \$21.3 million for 2023 compared with \$22.0 million for 2022.

Gross profit was \$9.2 million for 2023 compared with \$21.0 million \$8.3 million for 2021.

2022.

Operating profit decreased to was \$7.1 million for 2023 compared with \$9.0 million for 2022 from \$104.0 million for 2021. During 2021, we completed the sale of approximately 69,200 acres of timberlands in southwest Alabama (the "2021 Timberland Sale") which resulted in timberland gains of \$95.7 million.2022. Adjusted EBITDA was \$8.8 million and \$8.9 million for 2022 and 2021, respectively.2023 compared with \$8.8 million for 2022.

In order to maximize the value of our timber properties, we continue to review our current portfolio and explore the development of certain of these properties. This process has led us to characterize our property as follows:

- Surplus property, meaning land that cannot be efficiently or effectively managed by us, whether due to parcel size, lack of productivity, location, access limitations or for other reasons;
- HBU property, meaning land that in its current state has a higher market value for uses other than growing and selling timber;
- Development property, meaning HBU land that, with additional investment, may have a significantly higher market value than its HBU market value; and
- Core **Timberland**, **timberland**, meaning land that is best suited for growing and selling timber.

We report the sale of **core** timberland property in "timberland timberland gains, net," the sale of HBU and surplus property in "gain gain" on disposal of properties, plants and equipment, **net** net and the sale of timber and development property under "net sales" net sales and "cost cost" of products sold sold in our **interim** **condensed** consolidated statements of income. All HBU and development property, together with surplus property, is used to productively grow and sell timber until the property is sold.

Whether timberland has a higher value for uses other than growing and selling timber is a determination based upon several variables, such as proximity to population centers, anticipated population growth in the area, the topography of the land, aesthetic considerations, including access to lakes or rivers, the condition of the surrounding land, availability of utilities, markets for timber and economic considerations both nationally and locally. Given these considerations, the characterization of land is not a static process, but requires an ongoing review and re-characterization as circumstances change.

As of October 31, 2023, we estimated that there were 18,800 acres in the United States of special use property, which we expect will be available for sale in the next four to six years.

#### **Income Tax Expense**

We had operations in over 35 countries during 2022. Operations outside the United States are subject to additional risks that may not exist, or be as significant, within the United States. Because of our global operations in numerous countries, we are required to address different and complex tax systems and issues which are constantly changing.

The Inflation Reduction Act ("IRA") was enacted on August 16, 2022. The Act includes various tax provisions including a 1 percent excise tax on stock repurchases, various tax credits to incentivize clean energy investments and a corporate minimum tax generally applicable to US corporations with average adjusted financial statement income exceeding \$1.0 billion. We have evaluated the IRA provisions and determined they will not have a material impact on our financial positions or cash flows, nor will it materially change any accounting policies, business processes or internal controls.

Preparation of our financial statements requires the use of estimates and assumptions that affect the reported amounts of our assets and liabilities; and revenues and expenses as of the balance sheet date. The numerous tax jurisdictions in which we operate, along with the variety and complexity of the various tax laws, creates a level of uncertainty, and requires judgment when addressing the impact of complex tax issues. Our effective tax rate and the amount of **Income** tax expense are dependent upon various factors, including the following: the tax laws for 2023 was \$117.8 million on \$494.7 million of the jurisdictions in which pretax income is earned; the ability to realize deferred tax assets; negotiation and dispute resolution with taxing authorities in the U.S. and international jurisdictions; and changes in tax laws.

The provision for income taxes is computed using the asset and liability method. Under this method, deferred tax assets and liabilities are recognized currently based on the anticipated future tax consequences of changes in the temporary differences between the book and tax bases of assets and liabilities. This method includes an estimate of the future realization of tax benefits associated with tax losses. Deferred tax assets and liabilities are measured using the currently enacted tax rates that apply to taxable income in effect for the years in which those assets are expected to be realized or settled.

Income tax expense for 2022 was \$137.1 million on \$525.7 million of pretax income and for 2021 was \$69.6 million on \$478.6 million of pretax income. The \$67.5 million increase \$19.3 million decrease in income tax expense for 20222023 was primarily attributable to an increase a decrease in pre-tax earnings in 2022 and 2023, as well as an increase in tax benefit of \$5.4 million related to a net decrease in valuation allowances, including releases of valuation allowances. These reductions to income tax expense were offset by a decrease in tax benefit of uncertain tax position of \$6.9 million, primarily driven by lapses in the statute of limitations. Additionally, in 2022 we recognized a net book loss of \$58.6 million of book losses that were recorded as a result of related to the **FPS** **Divestiture** and disposal of the **Flexible Products** and other businesses for which limited tax benefits were available. Further, in 2021 we recognized deferred tax assets related to capital losses, which offset capital gains resulting from the sale of timberland.

We analyze potential income tax liabilities related to uncertain tax positions in the United States and international jurisdictions. The analysis of potential income tax liabilities results in estimates recognized for uncertain tax positions following the guidance of ASC 740, "Income Taxes." The estimation of potential tax liabilities related to uncertain tax positions involves significant judgment in evaluating the impact of uncertainties in the application of ASC 740 and complex tax laws. We periodically analyze both potential income tax liabilities and existing liabilities for uncertain tax positions resulting in both new reserves and adjustments to existing reserves in light of changing facts and circumstances. This includes the release of existing liabilities for uncertain tax positions based on the expiration of statutes of limitation. During 2022, lapses in the statute of limitations, which were partially offset by the recognition of new uncertain tax position liabilities recorded during the current year, resulted in an overall net decrease in our uncertain tax position liability. The net 2022 activity in uncertain tax positions provided a \$2.5 million benefit over the prior year.

The ultimate resolution of potential income tax liabilities may result in a payment that is materially different from our current estimates. If our estimates recognized under ASC 740 prove to be different than what is ultimately resolved, such resolution could have a material impact on our financial condition and results of operations. While predicting the final outcome or the timing of the resolution of any particular tax matter is subject to various risks and uncertainties, we believe that our tax accounts related to uncertain tax positions are appropriately stated.

See Note 8 of the Notes to Consolidated Financial Statements included in Item 8 of this Form 10-K for further information.

#### Other Comprehensive Income (Loss) Changes

##### *Foreign currency translation*

In accordance with ASC 830, "Foreign Currency Matters," the assets and liabilities denominated in a foreign currency are translated into United States Dollars at the rate of exchange existing at the end of the current period, and revenues and expenses are translated at average exchange rates over the month in which they are incurred. The cumulative translation adjustments, which represent the effects of translating assets and liabilities of our international operations, are presented in the consolidated statements of changes in equity in accumulated other comprehensive income (loss). During 2022, we completed the FPS Divestiture and \$113.1 million of foreign currency translation adjustment was released.

#### Recent Events

On December 15, 2022, we completed our previously announced acquisition of Lee Container Corporation, Inc. for a purchase price of \$300.0 million in cash. The all-cash transaction was funded through our existing credit facility. The operations of the acquired business will be reported in our Global Industrial Packaging business segment. Due to the limited time since we have completed the acquisition, we have not yet completed the initial acquisition accounting for the transaction, including the determination of the fair values of the assets acquired and the liabilities assumed. We anticipate completing the preliminary purchase price allocation in the first fiscal quarter of 2023, which would then be reflected in our January 31, 2023 financial statements. The results of operations of the acquired business will be included in our results from December 15, 2022, the date of the closing of the acquisition.

#### Year 2021 2022 Compared to Year 2020 2021

Results of our fiscal year 2021 2022 compared to our fiscal year 2020 2021 are included in our Annual Report on Form 10-K for the year ended **October 31, 2021** **October 31, 2022**, File No. 001-00566 (see Item 7 therein).

#### LIQUIDITY AND CAPITAL RESOURCES

Our primary sources of liquidity are operating cash flows and borrowings under our senior secured credit facilities ~~proceeds from the senior notes we have issued~~ and proceeds from our trade accounts receivable credit facilities. We use these sources to fund our working capital needs, capital expenditures, cash dividends, debt repayment and acquisitions. We anticipate continuing to fund these items in a like manner. We currently expect that operating cash flows, borrowings under our senior secured credit facilities and proceeds from our trade accounts receivable credit facilities will be sufficient to fund our anticipated working capital, capital expenditures, cash dividends, debt repayment, potential acquisitions of businesses and other liquidity needs for at least 12 months.

#### Cash Flow

Year Ended October 31, (in millions)	Year Ended October 31, (in millions)	2022	2021	Year Ended October 31, (in millions)	2023	2022
Net cash provided by operating activities	Net cash provided by operating activities	\$ 657.5	\$ 396.0	Net cash provided by operating activities	\$ 649.5	\$ 657.5
Net cash (used in) provided by investing activities		(28.2)	46.8			
Net cash used in financing activities		(531.0)	(422.9)			
Reclassification of cash to assets held for sale		—	0.5			
Net cash used in investing activities				Net cash used in investing activities	(670.2)	(28.2)
Net cash provided by (used in) financing activities				Net cash provided by (used in) financing activities	69.7	(531.0)
Effects of exchange rates on cash	Effects of exchange rates on cash	(75.8)	(1.7)	Effects of exchange rates on cash	(15.2)	(75.8)
Net increase in cash and cash equivalents	Net increase in cash and cash equivalents	22.5	18.7	Net increase in cash and cash equivalents	33.8	22.5

Cash and cash equivalents at beginning of year	Cash and cash equivalents at beginning of year	124.6	105.9	Cash and cash equivalents at beginning of year	147.1	124.6
Cash and cash equivalents at end of year	Cash and cash equivalents at end of year	\$ 147.1	\$ 124.6	Cash and cash equivalents at end of year	\$ 180.9	\$ 147.1

#### Operating Activities

The \$140.4 million \$89.7 million decrease in accounts receivable to \$659.4 million as of October 31, 2023 from \$749.1 million as of October 31, 2022 from \$889.5 million as of October 31, 2021 was primarily due to decreases in net sales during the last fiscal quarter of 2022, sales.

The \$95.9 million \$64.7 million decrease in inventories to \$338.6 million as of October 31, 2023 from \$403.3 million as of October 31, 2022 from \$499.2 million as of October 31, 2021 was primarily due to decreases in raw material prices and decreased purchases, during the last fiscal quarter of 2022, in line with decreased demand.

The \$143.2 million \$63.5 million decrease in accounts payable to \$497.8 million as of October 31, 2023 from \$561.3 million as of October 31, 2022 from \$704.5 million as of October 31, 2021 was primarily due to decreased raw material prices and timing of payable settlements, purchases.

#### Investing Activities

During 2022 2023 and 2021, 2022, we invested \$176.3 million \$213.6 million and \$140.7 million \$176.3 million, respectively, of cash in capital expenditures. These investments exclude \$6.7 million \$6.0 million and \$6.6 million \$6.7 million of cash purchases and investments in timber properties during 2022 2023 and 2021 2022, respectively.

During 2023, we paid \$542.4 million for purchases of businesses, net of cash acquired, primarily for the acquisition of Lee Container Corporate, Inc. ("Lee Container") on December 15, 2022 (the "Lee Container Acquisition"), the acquisition from approximately 10% to 80% of our ownership interest in Centurion Container LLC ("Centurion") on March 31, 2023 (the "Centurion Acquisition"), the acquisition of a 51% ownership interest in ColePak, LLC ("ColePak") on August 23, 2023 (the "ColePak Acquisition"), and the acquisition of Reliance Products, Ltd. ("Reliance") on October 1, 2023 (the "Reliance Acquisition").

During 2023, we received \$105.3 million of cash from sale of businesses, primarily from the Tama Divestiture. During 2022, we received \$139.2 million \$139.2 million of cash from sale of businesses, primarily from the FPS Divestiture.

During 2021, we sold approximately 69,200 acres of our timberland properties in southwest Alabama to Weyerhaeuser Company for approximately \$145.1 million in cash after closing costs, which totaled \$4.3 million. Proceeds were applied to debt repayment.

#### Financing Activities

We paid cash dividends to stockholders of Greif, Inc. in the amount of \$111.3 \$116.5 million and \$105.8 \$111.3 million for the years ended October 31, 2022 October 31, 2023 and 2021, 2022, respectively. We paid dividends to non-controlling interests in the amount of \$17.2 \$14.2 million and \$7.8 \$17.2 million for the years ended October 31, 2022 October 31, 2023 and 2021, 2022, respectively.

During 2023, we borrowed \$257.0 million of long-term debt, net of proceeds. During 2022, we paid down \$189.4 million of long-term debt, net of proceeds. We paid \$20.8 million of debt extinguishment charges and debt issuance costs related to our debt refinancing.

During 2023, we paid \$63.9 million for the Stock Repurchase Program, as further defined below in Other Liquidity Considerations. During 2022, we paid \$86.1 million for the share repurchase program.

During 2021, we paid at maturity the €200.0 million Senior Notes due 2021 in full from the proceeds of the \$225.0 million Incremental Term A-3 Loan, Stock Repurchase Program.

#### Financial Obligations

##### Borrowing Arrangements

Long-term debt is summarized as follows:

(in millions)	(in millions)	October 31, 2022	October 31, 2021	(in millions)	October 31, 2023	October 31, 2022
2022 Credit	2022 Credit			2022 Credit		
Agreement -	Agreement -			Agreement -		
Term Loans	Term Loans	\$ 1,565.0	\$ —	Term Loans	\$ 1,493.8	\$ 1,565.0
2019 Credit Agreement - Term						
Loans		—	1,247.3			
Senior Notes due 2027		—	495.9			
2023 Credit				2023 Credit		
Agreement -				Agreement -		
Term Loans				Term Loans	296.3	—

Accounts receivable credit facilities	Accounts receivable credit facilities	311.4	391.1	Accounts receivable credit facilities	351.0	311.4
2022 Credit Agreement - Revolving Credit Facility	2022 Credit Agreement - Revolving Credit Facility	—	—	2022 Credit Agreement - Revolving Credit Facility	77.3	41.9
2019 Credit Agreement - Revolving Credit Facility	—	50.5	—	—	—	0.4
Other debt	Other debt	0.4	0.6	Other debt	—	0.4
		1,918.7	2,185.4		2,218.4	1,918.7
Less current portion	Less current portion	71.1	120.3	Less current portion	88.3	71.1
Less deferred financing costs	Less deferred financing costs	8.3	10.3	Less deferred financing costs	8.7	8.3
Long-term debt, net	Long-term debt, net	\$ 1,839.3	\$ 2,054.8	Long-term debt, net	\$ 2,121.4	\$ 1,839.3

#### 2022 Credit Agreement

On March 1, 2022, we and certain of our U.S. subsidiaries entered into a second amended and restated senior secured credit agreement (the "2022 Credit Agreement") with a syndicate of financial institutions. The 2022 Credit Agreement amended, restated and replaced in its entirety our previous credit agreement, referred to as the "2019 Credit Agreement".

The 2022 Credit Agreement provides for (a) an \$800.0 million secured revolving credit facility, consisting of a \$725.0 million multicurrency facility and a \$75.0 million U.S. dollar facility, maturing on March 1, 2027, (b) a \$1,100.0 million secured term loan A-1 facility with quarterly principal installments commencing on July 31, 2022 and continuing through January 31, 2027, with any outstanding principal balance of such term loan A-1 facility being due and payable on maturity on March 1, 2027, and (c) a \$515.0 million secured term loan A-2 facility with quarterly principal installments commencing on July 31, 2022 and continuing through January 31, 2027, with any outstanding principal balance of such term loan A-2 being due and payable on maturity on March 1, 2027. The term loan A-2 facility reflects

Interest is based on Secured Overnight Financing Rate ("SOFR") plus a credit spread adjustment or a base rate that resets periodically plus, in each case, a calculated margin amount that is based on our leverage ratio. Subject to the combination terms of the outstanding balances 2022 Credit Agreement, we have an option to add borrowings to the 2022 Credit Agreement with the agreement of the secured term A-2 and A-3 loans lenders. As of October 31, 2023, we had \$722.7 million of available borrowing capacity under the 2019 Credit Agreement. \$800.0 million secured revolving credit facility.

The repayment of this facility all borrowings under the 2022 Credit Agreement is secured by a security interest in our personal property and the personal property of certain of our U.S. subsidiaries, including equipment and inventory and certain intangible assets, as well as a pledge of the capital stock of substantially all of our U.S. subsidiaries, and is secured, in part, by the capital stock of the non-U.S. borrowers. However, in the event that we receive and maintain an investment grade rating from either Moody's Moody's Investors Services, Inc. or Standard & Poor's Poor's Financial Services LLC, we may request the release of such collateral.

We used the borrowings under the 2022 Credit Agreement on March 1, 2022, to redeem our senior notes due 2027 and to repay and refinance all of the outstanding borrowings under the 2019 Credit Agreement, and will use the borrowings thereunder to fund ongoing working capital and capital expenditure needs and for general corporate purposes, including acquisitions, and to pay related fees and expenses. Interest is based on Secured Overnight Financing Rate ("SOFR") plus a credit spread adjustment, Euro Interbank Offer Rate ("EURIBOR") or a base rate that resets periodically plus, in each case, a calculated margin amount that is based on our leverage ratio. Subject to the terms of the 2022 Credit Agreement, we have an option to add borrowings to the 2022 Credit Agreement with the agreement of the lenders.

As of October 31, 2022, we had \$758.1 million of available borrowing capacity under the \$800.0 million secured revolving credit facility provided by the 2022 Credit Agreement, as defined in Note 5 of the Notes to Consolidated Financial Statements included in Item 8 of this Form 10-K. On December 15, 2022, we completed the Lee Container acquisition. The all-cash transaction was funded through Greif's existing credit facility.

The 2022 Credit Agreement contains certain covenants, which include financial covenants that require us to maintain a certain leverage ratio and an interest coverage ratio. The leverage ratio generally requires that at the end of any fiscal quarter we will not permit the ratio of (a) our total consolidated indebtedness (less the aggregate amount of our unrestricted cash and cash equivalents), to (b) our consolidated net income plus depreciation, depletion and amortization, interest expense (including capitalized interest), income taxes, and minus certain extraordinary gains and non-recurring gains (or plus certain extraordinary losses and non-recurring losses) and plus or minus certain other items for the preceding twelve months (as used in this paragraph only "EBITDA") to be greater than 4.00 to 1.00; provided that such leverage ratio is subject to (i) a covenant step-up (as defined in the 2022 Credit Agreement) increase adjustment of 0.50 upon the consummation of, and the following three fiscal quarters after, certain specified acquisitions, and (ii) a collateral release decrease adjustment of 0.25x during any collateral release period (as defined in the 2022 Credit Agreement). The interest coverage ratio generally requires that at the end of any fiscal quarter we will not permit the ratio of (a) our consolidated EBITDA, to (b) our consolidated interest expense to the extent paid or payable, to be less than 3.00 to 1.00, during the applicable preceding twelve month period. As of October 31, 2022 October 31, 2023, we were in compliance with the covenants and other agreements in the 2022 Credit Agreement.

#### Senior Notes due 2027

#### 2023 Credit Agreement

On March 1, 2022 May 17, 2023, we redeemed and Greif Packaging LLC, a direct wholly owned subsidiary of Greif, Inc. entered into a \$300.0 million senior secured credit agreement (the "2023 Credit Agreement") with CoBank, ACB ("CoBank"), who acted as lender and is acting as administrative agent of the 2023 Credit Agreement. The 2023 Credit Agreement is permitted incremental equivalent debt under the terms of the 2022 Credit Agreement. The 2023 Credit Agreement provides for a \$300.0 million secured term loan facility with quarterly principal installments commencing on July 31, 2023 and continuing through January 31, 2028, with any outstanding principal balance of such term loan being due and payable on maturity on May 17, 2028. We used the borrowing under the 2023 Credit Agreement to repay and refinance a portion of the outstanding borrowings under the 2022 Credit Agreement. Interest accruing under the 2023 Credit Agreement is based on SOFR plus a credit spread adjustment or a base rate that resets periodically plus, in each case, a calculated margin amount that is based on our leverage ratio.

The repayment of all borrowings under the 2023 Credit Agreement is secured by a security interest in certain of our personal property and certain of the personal property of certain of our U.S. subsidiaries, including equipment and inventory and certain intangible assets, as well as a pledge of the capital stock of substantially all of our outstanding 6.50% Senior Notes due 2027 for \$500.0 million U.S. subsidiaries. However, in the event that we receive and maintain an investment grade rating from either Moody's Investors Services, Inc. or Standard & Poor's Financial Services LLC, we may request the release of such collateral. Our obligations under the 2023 Credit Agreement are secured on a pari passu basis with the obligations arising under the 2022 Credit Agreement.

The 2023 Credit Agreement contains covenants, including financial covenants, substantially the same as the covenants in 2022 Credit Agreement, as described above, and a "most favored lender" provision related to the 2022 Credit Agreement. As of October 31, 2023, plus a call premium of \$16.3 million, we were in compliance with proceeds from our 2022 the covenants and other agreements in the 2023 Credit Agreement.

#### **United States Trade Accounts Receivable Credit Facility**

We have a \$300.0 million U.S. Receivables Financing Facility as defined in Note 5 of the Notes to Consolidated Financial Statements included in Item 8 of this Form 10-K, which Agreement (the "U.S. RFA") that matures on May 17, 2023 May 17, 2024. As of October 31, 2022 October 31, 2023, there was a \$215.0 million \$270.9 million outstanding balance under the U.S. Receivables Facility RFA that is reported as long-term debt in the consolidated balance sheets because we intend to refinance these obligations on a long-term basis and have the intent and ability to consummate a long-term refinancing by renewing the existing agreement or entering into new financing arrangements. The U.S. Receivables Facility RFA also contains events of default and covenants which that are substantially the same as the covenants under the 2022 Credit Agreement. As of October 31, 2022 October 31, 2023, we were in compliance with these covenants. Proceeds of the U.S. Receivables Facility RFA are available for working capital and general corporate purposes.

#### **International Trade Accounts Receivable Credit Facilities**

We have a €100.0 million (\$99.6 105.7 million as of October 31, 2022 October 31, 2023) European Receivables Financing Agreement (the "European RFA" "European RFA") that matures on April 24, 2023 April 24, 2024. The \$96.4 As of October 31, 2023, there was a \$80.1 million outstanding balance on the European RFA as of October 31, 2022 that is reported as long-term debt in the consolidated balance sheets because we intend to refinance these obligations on a long-term basis and have the intent and ability to consummate a long-term refinancing by renewing the existing agreement or entering into new financing arrangements. As of October 31, 2022 October 31, 2023, we were in compliance with the covenants that relate to the European RFA. Proceeds of the European RFA are available for working capital and general corporate purposes.

See Note 5 of the Notes to Consolidated Financial Statements included in Item 8 of this Form 10-K for additional information regarding our financial obligations.

#### **Financial Instruments**

##### **Interest Rate Derivatives**

As of October 31, 2022 October 31, 2023, we have various interest rate swaps with a total notional amount of \$1,150.0 \$1,300.0 million, amortizing down over the term, in which we receive variable interest rate payments based on SOFR and in return are obligated to pay interest at a weighted average fixed interest rate of 2.50%, plus a spread 2.62%. These derivatives are designated as cash flow hedges for accounting purposes and will mature between March 11, 2024 and July 15, 2029 July 16, 2029.

We are actively monitoring the interest rate market and will may execute new interest rate swaps as appropriate. Subsequent to October 31, 2022 October 31, 2023, we entered into \$100.0 million of additional interest rate swaps with a total notional amount of \$250.0 million maturing March 1, 2028 November 3, 2028, in which we receive variable rate interest payments based on SOFR and in return are obligated to pay interest at a weighted average fixed interest rate of 4.20%.

Accordingly, the gain or loss on these derivative instruments are reported as a component of other comprehensive income and reclassified into earnings in the same line item associated with the forecasted transactions and in the same period during which the hedged transaction affects earnings.

##### **Foreign Exchange Hedges**

We conduct business in international currencies and are subject to risks associated with changing foreign exchange rates. Our objective is to reduce volatility associated with foreign exchange rate changes to allow management to focus its attention on business operations. Accordingly, we enter into various contracts that change in value as foreign exchange rates change to protect the value of certain existing foreign currency assets and liabilities, commitments and anticipated foreign currency cash flows.

As of October 31, 2022 October 31, 2023 and 2021, 2022, we had outstanding foreign currency forward contracts in the notional amount of \$132.1 million \$66.0 million and \$81.8 million \$132.1 million, respectively.

We are actively monitoring the foreign exchange hedges market and may execute new foreign currency forward contracts as appropriate. Subsequent to October 31, 2023, we entered into additional foreign currency forward contract in the notional amount of \$268.0 million maturing February 29, 2024.

##### **Cross Currency Swaps**

We have operations and investments in various international locations and are subject to risks associated with changing foreign exchange rates. We have cross currency interest rate swaps that synthetically swap \$334.4 \$319.3 million of fixed rate debt to Euro denominated fixed rate debt. We receive a weighted average rate of 1.56% 1.39%. These

agreements are designated as either net investment hedges or cash flow hedges for accounting purposes and will mature between **March 6, 2023** **March 2, 2024** and October 5, 2026.

We are actively monitoring the cross currency interest rate swap market and may execute new cross currency interest rate swaps as appropriate. Subsequent to October 31, 2023, we entered into additional cross currency interest rate swaps that synthetically swap \$213.2 million of fixed rate debt to Euro denominated fixed rate debt maturing November 3, 2028. We receive a weighted average rate of 1.31% on these swaps.

Accordingly, the gain or loss on the net investment hedge derivative instruments is included in the foreign currency translation component of other comprehensive income until the net investment is sold, diluted or liquidated. The gain or loss on the cash flow hedge derivative instruments is included in the unrealized foreign exchange component of other expense, offset by the underlying gain or loss on the underlying cash flows that are being hedged. Interest payments received from the cross currency swap are excluded from the net investment hedge effectiveness assessment and are recorded in interest expense, net on the consolidated statements of income.

See Note 6 of the Notes to Consolidated Financial Statements included in Item 8 of this Form 10-K for additional disclosures regarding our financial instruments.

#### **Other Liquidity Considerations**

##### **Post-Retirement Benefit Plans**

We have no near-term post-retirement benefit plan funding obligations. We intend to make a post-retirement benefit plan contribution of **\$29.4 million** **\$21.9 million** during **2023, 2024**, which we anticipate will consist of **\$24.2 million** **\$16.2 million** of employer contributions and **\$5.2 million** **\$5.7 million** of benefits paid directly by the employer. See Note 9 of the Notes to Consolidated Financial Statements included in Item 8 of this Form 10-K for additional information regarding our post-retirement benefit plans.

##### **Contingent Liabilities and Environmental Reserves**

Environmental reserves are estimates based on current remediation **plans**; **plans**, and actual liabilities could significantly differ from the reserve estimates. See Note 10 of the Notes to Consolidated Financial Statements included in Item 8 of this Form 10-K for additional information regarding our contingent liabilities and environmental reserves.

#### **Stock Repurchase Program**

In June 2022, the Stock Repurchase Committee of our Board of Directors authorized a program to repurchase up to \$150.0 million of shares of our Class A or Class B Common Stock or any combination thereof. On June 23, 2022, we entered into a \$75.0 million accelerated share repurchase agreement ("ASR" ("ASR") with Bank of America, N.A. for the repurchase of shares of our Class A Common Stock. In addition, at that time we initiated a plan to repurchase an aggregate of \$75.0 million of shares of our Class A or Class B Common Stock, or any combination thereof, in open market purchases ("("OSR program" program") (collectively, the "Stock Repurchase Program").

Under the ASR, on June 24, 2022, we made a payment of \$75.0 million and received an initial delivery of approximately 80% of the expected share repurchases, or 1,021,451 shares of Class A Common Stock, with any Stock. On February 28, 2023, we received the remaining shares expected to be delivered by our second quarter 2023. The ASR has been accounted for as a purchase of 94,259 shares of Class A Common Stock and a forward purchase contract. The final number of shares of Class A Common Stock to be repurchased will be based on the volume-weighted average price of the shares of our Class A Common Stock during the term of the ASR less a discount. We have treated the shares of Class A Common Stock delivered as treasury shares as of the date the shares were physically delivered in computing the weighted average shares outstanding of Class A Common Stock for both basic and diluted earnings per share. The forward stock purchase contract was determined to be indexed to our own stock and met all of the applicable criteria for equity classification. Stock.

We began making repurchases of Class B Common Stock under the OSR program on September 9, 2022, and we may continue to make open market repurchases over of Class A Common Stock under the next 12 to 18 months under this OSR program all on March 16, 2023 in accordance with Rule 10b-18 promulgated under the Securities Exchange Act of 1934. The timing of any such repurchases will depend OSR program was completed on market conditions and will be made at our discretion. While we intend to repurchase up to \$75.0 May 26, 2023, with \$25.0 million of shares we are not obligated to repurchase any dollar amount of Class A Common Stock, or number or class of 406,343 shares, and may suspend or discontinue repurchases at any time. As \$50.0 million of October 31, 2022, 170,980 shares of Class B Common Stock, had been or 676,598 shares, being repurchased under the OSR program.

See Note 11 of the Notes to Consolidated Financial Statements included in Item 8 of this Form 10-K for additional information regarding this program and the repurchase of shares of Class A and B Common Stock.

#### **Critical Accounting Policies**

A summary of our significant accounting policies is included in Note 1 of the Notes to Consolidated Financial Statements included in Item 8 of this Form 10-K. We believe that the consistent application of these policies enables us to provide readers of the consolidated financial statements with useful and reliable information about our results of operations and financial condition. The following are the accounting policies that we believe are most important to the portrayal of our results of operations and financial condition and require our most difficult, subjective or complex judgments.

Other items that could have a significant impact on the financial statements include the risks and uncertainties listed in Part I, Item 1A – Risk Factors. Actual results could differ materially using different estimates and assumptions, or if conditions are significantly different in the future.

#### **Business Combinations**

Under the acquisition method of accounting, we allocate the fair value of purchase consideration transferred to the tangible and intangible assets acquired and liabilities assumed based on their estimated fair values on the date of the acquisition. The fair values assigned, defined as the price that would be received to sell an asset or paid to transfer a liability in an orderly transaction between willing market participants, are based on estimates and assumptions determined by management. The excess purchase consideration over the aggregate fair value of tangible and intangible assets, net of liabilities assumed, is recorded as goodwill. When determining the fair value of assets acquired and liabilities assumed, we make significant estimates and assumptions, especially with respect to intangible assets. Our estimates of fair value are based upon assumptions believed to be reasonable, but which are inherently uncertain and unpredictable and, as a result, actual results may differ from estimates. During the measurement period, not to exceed one year from the date of acquisition, we may record adjustments to the assets acquired and liabilities assumed, with a corresponding offset to goodwill if new information is obtained related to facts and circumstances that existed as of the acquisition date. After the measurement period, any subsequent adjustments are reflected in the consolidated statements of operations.

Acquisition costs, such as legal and consulting fees, are expensed as incurred. See Note 2 of the Notes to Consolidated Financial Statements included in Item 8 of this Form 10-K for additional information regarding our acquisitions.

#### Valuation of Goodwill

We account for goodwill in accordance with ASC 350, "Intangibles – Goodwill and Other." Under ASC 350, goodwill is not amortized, but instead is tested for impairment either annually on August 1 or when events and circumstances indicate an impairment may have occurred. Our goodwill impairment assessment is performed by reporting unit. A reporting unit is the operating segment, or a business one level below that operating segment (the component level) if discrete financial information is prepared and regularly reviewed by segment management. However, components are aggregated as a single reporting unit if they have similar economic characteristics. In conducting the annual impairment tests, the estimated fair value of each of our reporting units is compared to its carrying amount including goodwill. If the estimated fair value exceeds the carrying amount, then no impairment exists. If the carrying amount exceeds the estimated fair value, we record an impairment of goodwill equal to the amount by which the carrying value exceeds the fair value of the reporting unit, not to exceed the recorded amount of goodwill.

The Global Industrial Packaging reportable segment consists of four operating segments: Global Industrial Packaging – North America; Global Industrial Packaging – Latin America; Global Industrial Packaging – Europe, Middle East and Africa; Global Industrial Packaging – Asia Pacific. Each of these operating segments also qualify as a component that has discrete financial information available that is reviewed by segment management on a regular basis. As such, these components also represent our reporting units for purposes of goodwill impairment testing.

The Paper Packaging & Services reportable segment is also an operating segment. This operating segment consists of multiple components that have discrete financial information available that is reviewed by segment management on a regular basis. We have evaluated those components and concluded that they are economically similar and should be aggregated into single reporting unit. For the purpose of aggregating our components, we review the long-term performance of gross profit margin and operating profit margin. Additionally, we review qualitative factors such as common customers, similar products, similar manufacturing processes, sharing of resources, level of integration and interdependency of processes across components. We place greater weight on the qualitative factors outlined in ASC 280 "Segment Reporting" and consider the guidance in ASC 350 in determining whether two or more components of an operating segment are economically similar and can be aggregated into a single reporting unit.

The estimated fair value of the reporting units utilized in the impairment test is based on a discounted cash flow analysis or income approach and market multiple approach. Under this method, the principal valuation focus is on the reporting unit's cash-generating capabilities. The discount rates used for impairment testing are based on a market participant's weighted average cost of capital. The use of alternative estimates, peer groups or changes in the industry, or adjusting the discount rate, earnings before interest, taxes, depreciation, depletion and amortization, multiples or price earnings ratios used could affect the estimated fair value of the assets and potentially result in impairment. Any identified impairment would result in an adjustment to our results of operations.

In performing the test, we first evaluate qualitative factors, such as macroeconomic conditions and our overall financial performance to determine whether it is more likely than not that the fair value of a reporting unit is less than its carrying amount, including goodwill. We then evaluate how significant each of the identified factors could be to the fair value or carrying amount of a reporting unit and weigh those factors in totality in forming a conclusion of whether or not it is more likely than not that the fair value of a reporting unit is less than its carrying amount (the Step 0 Test). If necessary, the next step in the goodwill impairment test involves comparing the fair value of each of the reporting units to the carrying value of those reporting units. If the carrying value of a reporting unit exceeds the fair value of the reporting unit, an impairment loss would be recognized (not to exceed the carrying amount of goodwill). We did not utilize any Step 0 tests in 2022, 2023.

For all reporting units with goodwill balances, we proceeded directly to the quantitative impairment testing and the fair value exceeded carrying value by at least 29% 31%, so no impairment was deemed to exist. Discount rates Net sales, gross profit margin and revenue growth operating expense forecasts, as well as the selection of discount rates, are the assumptions that are most sensitive and susceptible to change as they require significant management judgment. In addition, certain future events and circumstances, including deterioration of market conditions, higher cost of capital, a decline in actual and expected consumption and demand, could result in changes to those assumptions and judgments. A revision of those assumptions could cause the fair value of the reporting unit to fall below its respective carrying value. If in future years, our reporting units' actual results are not consistent with our estimates and assumptions used to calculate fair value, we may be required to recognize material impairments to goodwill.

The following table summarizes the carrying amount of goodwill by reporting unit for the year ended October 31, 2022, October 31, 2023 and 2021:

(in millions)	(in millions)	Goodwill Balance		(in millions)	Goodwill Balance	
		October 31, 2022	October 31, 2021		October 31, 2023	October 31, 2022
Global Industrial Packaging	Global Industrial Packaging			Global Industrial Packaging		
North America	North America	\$ 286.0	\$ 286.0	North America	\$ 461.6	\$ 286.0
Europe, Middle East and Africa	Europe, Middle East and Africa	315.4	364.1	Europe, Middle East and Africa	330.0	315.4
Asia Pacific	Asia Pacific	95.2	97.2	Asia Pacific	96.0	95.2
Paper Packaging & Services	Paper Packaging & Services	767.9	768.1	Paper Packaging & Services	805.4	767.9
Total	Total	\$ 1,464.5	\$ 1,515.4	Total	\$ 1,693.0	\$ 1,464.5

\*The Global Industrial Packaging: Latin America and Land Management reporting units have no goodwill balance at either reporting period.

\*The Global Industrial Packaging: Latin America and Land Management reporting units have no goodwill balance at either reporting period.

\*The Global Industrial Packaging: Latin America and Land Management reporting units have no goodwill balance at either reporting period.

#### Recent Accounting Standards

See Note 1 of the Notes to Consolidated Financial Statements included in Item 8 of this Form 10-K for a detailed description of recently issued and newly adopted accounting standards.

### ITEM 7A. QUANTITATIVE AND QUALITATIVE DISCLOSURES ABOUT MARKET RISK

#### Interest Rate Risk

We are subject to interest rate risk related to our financial instruments that include borrowings under the 2022 Credit Agreement, the 2023 Credit Agreement and proceeds from U.S. Receivables Facility RFA and the European RFA and cross currency and interest rate swap agreements. We do not enter into financial instruments for trading or speculative purposes. The interest rate swap agreements have been entered into to manage our exposure to variability in interest rates.

We have various interest rate swaps with a total notional amount of \$1,150.0 million, maturing between March 11, 2024 and July 15, 2029 July 16, 2029. We receive variable interest rate payments based upon one-month U.S. dollar SOFR, and in return are obligated to pay interest at a weighted average fixed interest rate of 2.50% 2.62%, plus a spread.

Losses Gains (losses) reclassified to earnings under these interest rate swaps were recorded in the amount of \$8.4 million \$28.5 million, \$18.1 million \$(8.4) million and \$16.5 million \$(18.1) million for the years ended October 31, 2022 October 31, 2023, 2021 2022 and 2020, 2021, respectively.

We have various cross currency interest rate swaps that synthetically swap \$334.4 \$319.3 million of fixed rate debt to Euro denominated fixed rate debt. We receive a weighted average rate of 1.56% 1.39%. These agreements are designated as either net investment hedges or cash flow hedges for accounting purposes and will mature between March 6, 2023 March 2, 2024 and October 5, 2026.

The gain or loss on the net investment hedge derivative instruments is included in the foreign currency translation component of other comprehensive income until the net investment is sold, diluted, or liquidated. The gain or loss on the cash flow hedge derivative instruments is included in the unrealized foreign exchange component of other expense, offset by the underlying gain or loss on the underlying cash flows that are being hedged. Interest payments received from the cross currency swap are excluded from the net investment hedge effectiveness assessment and are recorded in interest expense, net on the consolidated statements of income.

Gains on the cross currency swap agreement was recorded in interest expense for the amount of \$5.8 million \$5.1 million, \$2.2 million \$5.8 million and \$2.4 \$2.2 million for the years ended October 31, 2022 October 31, 2023, 2021 2022 and 2020, 2021, respectively.

#### Currency Risk

As a result of our international operations, our operating results are subject to fluctuations in currency exchange rates. The geographic presence of our operations mitigates this exposure to some degree. Additionally, our transaction exposure is somewhat limited because we produce and sell a majority of our products in local currency within most countries in which we operate.

As of October 31, 2022 October 31, 2023 and 2021 2022 we had outstanding foreign currency forward contracts in the notional amount of \$132.1 million \$66.0 million and \$81.8 million \$132.1 million, respectively. The purpose of these contracts is to hedge our exposure to foreign currency transactions and short-term intercompany loan balances in our international businesses. These contracts resulted in realized gains (losses) recorded in other expense, net of \$1.2 million, \$(6.2) million \$0.4 million and \$(3.2) million \$0.4 million for the years ended October 31, 2022 October 31, 2023, 2021 2022 and 2020, 2021, respectively.

A sensitivity analysis (with respect only to these instruments) to changes in the foreign currencies hedged indicates that if the U.S. dollar strengthened by 10 percent, the fair value of these instruments would increase by \$6.9 \$0.5 million to a net asset of \$6.6 \$0.5 million. Conversely, if the U.S. dollar weakened by 10 percent, the fair value of these instruments would decrease by \$6.6 \$0.4 million to a net liability of \$6.8 \$0.4 million.

#### Commodity Price Risk

We purchase commodities such as steel, resin, containerboard, pulpwood and energy. We do not currently engage in material hedging of these commodities.

### ITEM 8. FINANCIAL STATEMENTS AND SUPPLEMENTARY DATA

**GREIF, INC. AND SUBSIDIARY COMPANIES**  
**CONSOLIDATED STATEMENTS OF INCOME**

Year Ended October 31, (in millions, except per share amounts)	Year Ended October 31, (in millions, except per share amounts)			Year Ended October 31, (in millions, except per share amounts)	Year Ended October 31, (in millions, except per share amounts)		
	2022	2021	2020		2023	2022	2021
Net sales	Net sales	\$ 6,349.5	\$ 5,556.1	\$ 4,515.0	Net sales	\$ 5,218.6	\$ 6,349.5
Costs of products sold	Costs of products sold	5,064.1	4,463.1	3,600.3	Costs of products sold	4,072.5	5,064.1
Gross profit	Gross profit	1,285.4	1,093.0	914.7	Gross profit	1,146.1	1,285.4
Selling, general and administrative expenses	Selling, general and administrative expenses	581.0	565.9	516.0	Selling, general and administrative expenses	549.1	581.0
Acquisition and integration related costs					Acquisition and integration related costs	19.0	8.7
Restructuring charges	Restructuring charges	13.0	23.1	38.7	Restructuring charges	18.7	13.0
Timberland gains, net	Timberland gains, net	—	(95.7)	—	Timberland gains, net	—	(95.7)
Acquisition and integration related costs		8.7	9.1	17.0			
Non-cash asset impairment charges	Non-cash asset impairment charges	71.0	8.9	18.5	Non-cash asset impairment charges	20.3	71.0
Gain on disposal of properties, plants and equipment, net	Gain on disposal of properties, plants and equipment, net	(8.1)	(3.7)	(19.2)	Gain on disposal of properties, plants and equipment, net	(2.5)	(8.1)
(Gain) Loss on disposal of businesses, net	(Gain) Loss on disposal of businesses, net	(1.4)	0.2	38.8	(Gain) Loss on disposal of businesses, net	(64.0)	(1.4)
Operating profit	Operating profit	621.2	585.2	304.9	Operating profit	605.5	621.2
Interest expense, net	Interest expense, net	61.2	92.7	115.8	Interest expense, net	96.3	61.2
Non-cash pension settlement charges					Non-cash pension settlement charges	3.5	—
Debt extinguishment charges	Debt extinguishment charges	25.4	—	—	Debt extinguishment charges	—	25.4
Non-cash pension settlement charges		—	9.1	0.3			
Other expense, net	Other expense, net	8.9	4.8	2.7	Other expense, net	11.0	8.9
Income before income tax expense and equity earnings of unconsolidated affiliates, net	Income before income tax expense and equity earnings of unconsolidated affiliates, net	525.7	478.6	186.1	Income before income tax expense and equity earnings of unconsolidated affiliates, net	494.7	525.7
Income tax expense	Income tax expense	137.1	69.6	63.3	Income tax expense	117.8	137.1
Equity earnings of unconsolidated affiliates, net of tax	Equity earnings of unconsolidated affiliates, net of tax	(5.4)	(4.2)	(1.5)	Equity earnings of unconsolidated affiliates, net of tax	(2.2)	(5.4)
Net income	Net income	394.0	413.2	124.3	Net income	379.1	394.0
Net income attributable to noncontrolling interests	Net income attributable to noncontrolling interests	(17.3)	(22.5)	(15.5)	Net income attributable to noncontrolling interests	(19.9)	(17.3)
Net income attributable to Greif, Inc.	Net income attributable to Greif, Inc.	\$ 376.7	\$ 390.7	\$ 108.8	Net income attributable to Greif, Inc.	\$ 359.2	\$ 376.7

Basic earnings per share attributable to Greif, Inc. common shareholders:	Basic earnings per share attributable to Greif, Inc. common shareholders:	Basic earnings per share attributable to Greif, Inc. common shareholders:
Class A common stock	Class A common stock \$ 6.36	Class A common stock \$ 6.22
Class B common stock	Class B common stock \$ 9.53	Class B common stock \$ 9.32
<b>Diluted earnings per share attributed to Greif, Inc. common shareholders:</b>	<b>Diluted earnings per share attributed to Greif, Inc. common shareholders:</b>	<b>Diluted earnings per share attributed to Greif, Inc. common shareholders:</b>
Class A common stock	Class A common stock \$ 6.30	Class A common stock \$ 6.15
Class B common stock	Class B common stock \$ 9.53	Class B common stock \$ 9.32

See accompanying Notes to Consolidated Financial Statements.

#### GREIF, INC. AND SUBSIDIARY COMPANIES

#### CONSOLIDATED STATEMENTS OF COMPREHENSIVE INCOME

Year Ended October 31, (in millions)	Year Ended October 31, (in millions)	2022	2021	2020	Year Ended October 31, (in millions)	2023	2022	2021
Net income	Net income	\$ 394.0	\$ 413.2	\$ 124.3	Net income	\$ 379.1	\$ 394.0	\$ 413.2
Other comprehensive income (loss), net of tax:	Other comprehensive income (loss), net of tax:				Other comprehensive income (loss), net of tax:			
Foreign currency translation*	Foreign currency translation*	(27.9)	(1.6)	(9.8)	Foreign currency translation*	(1.1)	(27.9)	(1.6)
Derivative financial instruments	Derivative financial instruments	76.4	21.1	(12.0)	Derivative financial instruments	(1.1)	76.4	21.1
Minimum pension liabilities	Minimum pension liabilities	(1.1)	50.4	15.1	Minimum pension liabilities	(11.9)	(1.1)	50.4
Other comprehensive income (loss), net of tax		47.4	69.9	(6.7)				
Other comprehensive (loss) income, net of tax					Other comprehensive (loss) income, net of tax	(14.1)	47.4	69.9
Comprehensive income	Comprehensive income	441.4	483.1	117.6	Comprehensive income	365.0	441.4	483.1
Comprehensive income attributable to noncontrolling interests	Comprehensive income attributable to noncontrolling interests	10.5	21.4	2.6	Comprehensive income attributable to noncontrolling interests	20.0	10.5	21.4
Comprehensive income attributable to Greif, Inc.	Comprehensive income attributable to Greif, Inc.	\$ 430.9	\$ 461.7	\$ 115.0	Comprehensive income attributable to Greif, Inc.	\$ 345.0	\$ 430.9	\$ 461.7

\*Year ended October 31, 2022 amount includes \$113.1 million release of foreign currency translation from business divestment.

See accompanying Notes to Consolidated Financial Statements.

**GREIF, INC. AND SUBSIDIARY COMPANIES**

**CONSOLIDATED BALANCE SHEETS**

(in millions)	(in millions)	October 31, 2022	October 31, 2021	(in millions)	October 31, 2023	October 31, 2022
<b>ASSETS</b>	<b>ASSETS</b>			<b>ASSETS</b>		
<b>Current assets</b>	<b>Current assets</b>			<b>Current assets</b>		
Cash and cash equivalents	Cash and cash equivalents	\$ 147.1	\$ 124.6	Cash and cash equivalents	\$ 180.9	\$ 147.1
Trade accounts receivable, net of allowance	Trade accounts receivable, net of allowance	749.1	889.5	Trade accounts receivable, net of allowance	659.4	749.1
Inventories:	Inventories:			Inventories:		
Raw materials	Raw materials	316.0	390.7	Raw materials	255.8	316.0
Work-in-process	—	1.5				
Finished goods	Finished goods	87.3	107.0	Finished goods	82.8	87.3
Assets held for sale	Assets held for sale	1.3	6.9	Assets held for sale	5.0	1.3
Prepaid expenses	Prepaid expenses	57.3	54.0	Prepaid expenses	46.0	57.3
Other current assets	Other current assets	141.3	89.9	Other current assets	139.2	141.3
		1,499.4	1,664.1		1,369.1	1,499.4
<b>Long-term assets</b>	<b>Long-term assets</b>			<b>Long-term assets</b>		
Goodwill	Goodwill	1,464.5	1,515.4	Goodwill	1,693.0	1,464.5
Other intangible assets, net of amortization	Other intangible assets, net of amortization	576.2	648.4	Other intangible assets, net of amortization	792.2	576.2
Deferred tax assets	Deferred tax assets	10.1	16.3	Deferred tax assets	22.9	10.1
Pension assets	Pension assets	30.8	39.9	Pension assets	36.2	30.8
Operating lease assets	Operating lease assets	254.7	289.4	Operating lease assets	290.3	254.7
Finance lease assets				Finance lease assets	30.5	1.2
Other long-term assets	Other long-term assets	179.2	121.1	Other long-term assets	164.0	178.0
		2,515.5	2,630.5		3,029.1	2,515.5
<b>Properties, plants and equipment</b>	<b>Properties, plants and equipment</b>			<b>Properties, plants and equipment</b>		
Timber properties, net of depletion	Timber properties, net of depletion	226.8	224.6	Timber properties, net of depletion	229.6	226.8
Land	Land	154.8	161.9	Land	153.7	154.8
Buildings	Buildings	515.1	543.8	Buildings	544.3	515.1
Machinery and equipment	Machinery and equipment	1,968.3	2,042.3	Machinery and equipment	2,138.8	1,968.3
Capital projects in progress	Capital projects in progress	182.9	137.2	Capital projects in progress	200.5	182.9
		3,047.9	3,109.8		3,266.9	3,047.9

Accumulated depreciation	Accumulated depreciation	(1,592.9)	(1,588.6)	Accumulated depreciation	(1,704.3)	(1,592.9)
		1,455.0	1,521.2		1,562.6	1,455.0
Total assets	Total assets	\$ 5,469.9	\$ 5,815.8	Total assets	\$ 5,960.8	\$ 5,469.9

See accompanying Notes to Consolidated Financial Statements.

#### GREIF, INC. AND SUBSIDIARY COMPANIES

#### CONSOLIDATED BALANCE SHEETS

(in millions)	(in millions)	October 31, 2022	October 31, 2021	(in millions)	October 31, 2023	October 31, 2022
<b>LIABILITIES AND SHAREHOLDERS' EQUITY</b>	<b>LIABILITIES AND SHAREHOLDERS' EQUITY</b>			<b>LIABILITIES AND SHAREHOLDERS' EQUITY</b>		
<b>Current liabilities</b>	<b>Current liabilities</b>			<b>Current liabilities</b>		
Accounts payable	Accounts payable	\$ 561.3	\$ 704.5	Accounts payable	\$ 497.8	\$ 561.3
Accrued payroll and employee benefits	Accrued payroll and employee benefits	174.4	160.3	Accrued payroll and employee benefits	137.7	174.4
Restructuring reserves	Restructuring reserves	12.3	20.3	Restructuring reserves	16.8	12.3
Current portion of long-term debt	Current portion of long-term debt	71.1	120.3	Current portion of long-term debt	88.3	71.1
Short-term borrowings	Short-term borrowings	5.7	50.5	Short-term borrowings	5.4	5.7
Liabilities held for sale		—	0.9			
Current portion of operating lease liabilities	Current portion of operating lease liabilities	48.9	54.0	Current portion of operating lease liabilities	53.8	48.9
Current portion of finance lease liabilities				Current portion of finance lease liabilities	3.4	0.9
Other current liabilities	Other current liabilities	174.2	203.3	Other current liabilities	136.1	173.3
		1,047.9	1,314.1		939.3	1,047.9
<b>Long-term liabilities</b>	<b>Long-term liabilities</b>			<b>Long-term liabilities</b>		
Long-term debt	Long-term debt	1,839.3	2,054.8	Long-term debt	2,121.4	1,839.3
Operating lease liabilities	Operating lease liabilities	209.4	239.5	Operating lease liabilities	240.2	209.4
Finance lease liabilities				Finance lease liabilities	27.9	0.2
Deferred tax liabilities	Deferred tax liabilities	343.6	318.0	Deferred tax liabilities	325.6	343.6
Pension liabilities	Pension liabilities	58.0	78.3	Pension liabilities	56.3	58.0
Post-retirement benefit obligations	Post-retirement benefit obligations	7.2	11.0	Post-retirement benefit obligations	6.2	7.2
Contingent liabilities and environmental reserves	Contingent liabilities and environmental reserves	19.0	19.5	Contingent liabilities and environmental reserves	17.3	19.0
Long-term income tax payable	Long-term income tax payable	25.6	27.8	Long-term income tax payable	21.2	25.6
Other long-term liabilities	Other long-term liabilities	109.8	153.1	Other long-term liabilities	93.8	109.6
		2,611.9	2,902.0		2,909.9	2,611.9

Commitments and Contingencies (Note 10)	Commitments and Contingencies (Note 10)	Commitments and Contingencies (Note 10)
Redeemable Noncontrolling Interests (Note 15)	Redeemable Noncontrolling Interests (Note 15)	Redeemable Noncontrolling Interests (Note 15)
Equity	Equity	Equity
Common stock, without par value	Common stock, without par value	Common stock, without par value
Treasury stock, at cost	Treasury stock, at cost	Treasury stock, at cost
Retained earnings	Retained earnings	Retained earnings
Accumulated other comprehensive income (loss), net of tax:	Accumulated other comprehensive income (loss), net of tax:	Accumulated other comprehensive income (loss), net of tax:
Foreign currency translation	Foreign currency translation	Foreign currency translation
Derivative financial instruments	Derivative financial instruments	Derivative financial instruments
Minimum pension liabilities	Minimum pension liabilities	Minimum pension liabilities
Total Greif, Inc. shareholders' equity	Total Greif, Inc. shareholders' equity	Total Greif, Inc. shareholders' equity
Noncontrolling interests	Noncontrolling interests	Noncontrolling interests
Total shareholders' equity	Total shareholders' equity	Total shareholders' equity
Total liabilities and shareholders' equity	Total liabilities and shareholders' equity \$	Total liabilities and shareholders' equity \$

See accompanying Notes to Consolidated Financial Statements.

**GREIF, INC. AND SUBSIDIARY COMPANIES**  
**CONSOLIDATED STATEMENTS OF CASH FLOWS**

Year Ended October 31, Year Ended October 31, (in millions)	Year Ended October 31, Year Ended October 31, (in millions)	2022	2021	2020	Year Ended October 31, (in millions)	2023	2022	2021
<b>Cash flows from operating activities:</b>	<b>Cash flows from operating activities:</b>				<b>Cash flows from operating activities:</b>			
Net income	Net income	\$ 394.0	\$ 413.2	\$ 124.3	Net income	\$ 379.1	\$ 394.0	\$ 413.2
Adjustments to reconcile net income to net cash provided by operating activities:	Adjustments to reconcile net income to net cash provided by operating activities:				Adjustments to reconcile net income to net cash provided by operating activities:			
Depreciation, depletion and amortization	Depreciation, depletion and amortization	216.6	234.4	242.5	Depreciation, depletion and amortization	230.6	216.6	234.4
Timberland gains, net	Timberland gains, net	—	(95.7)	—	Timberland gains, net	—	—	(95.7)

Non-cash asset impairment charges	Non-cash asset impairment charges	71.0	8.9	18.5	Non-cash asset impairment charges	20.3	71.0	8.9
Non-cash pension settlement charges	Non-cash pension settlement charges	—	9.1	0.3	Non-cash pension settlement charges	3.5	—	9.1
Gain on disposals of properties, plants and equipment, net	Gain on disposals of properties, plants and equipment, net	(8.1)	(3.7)	(19.2)	Gain on disposals of properties, plants and equipment, net	(2.5)	(8.1)	(3.7)
(Gain) loss on disposals of businesses, net	(Gain) loss on disposals of businesses, net	(1.4)	0.2	38.8	(Gain) loss on disposals of businesses, net	(64.0)	(1.4)	0.2
Unrealized foreign exchange (gain) loss		(1.6)	1.0	(4.2)				
Deferred income tax expense (benefit)		13.4	(47.2)	16.7				
Unrealized foreign exchange loss (gain)					Unrealized foreign exchange loss (gain)	12.7	(1.6)	1.0
Deferred income tax (benefit) expense					Deferred income tax (benefit) expense	(28.7)	13.4	(47.2)
Debt extinguishment charges	Debt extinguishment charges	22.6	—	—	Debt extinguishment charges	—	22.6	—
Non-cash lease expense	Non-cash lease expense	35.7	40.0	57.4	Non-cash lease expense	38.0	35.7	40.0
Other, net	Other, net	0.8	(2.4)	(3.0)	Other, net	2.2	0.8	(2.4)
Increase (decrease) in cash from changes in certain assets and liabilities:								
Increase (decrease) in cash from changes in certain assets and liabilities, net of impacts from acquisitions:					Increase (decrease) in cash from changes in certain assets and liabilities, net of impacts from acquisitions:			
Trade accounts receivable	Trade accounts receivable	25.1	(247.5)	(9.1)	Trade accounts receivable	130.3	25.1	(247.5)
Inventories	Inventories	6.1	(205.6)	27.1	Inventories	101.0	6.1	(205.6)
Accounts payable	Accounts payable	(40.5)	230.4	38.1	Accounts payable	(79.8)	(40.5)	230.4
Restructuring reserves	Restructuring reserves	(6.6)	(1.4)	10.2	Restructuring reserves	4.4	(6.6)	(1.4)
Operating leases	Operating leases	(36.9)	(43.5)	(56.8)	Operating leases	(37.3)	(36.9)	(43.5)
Pension and post-retirement benefit liabilities	Pension and post-retirement benefit liabilities	(24.7)	(11.5)	(13.3)	Pension and post-retirement benefit liabilities	(26.9)	(24.7)	(11.5)
Other, net	Other, net	(8.0)	117.3	(13.6)	Other, net	(33.4)	(8.0)	117.3
Net cash provided by operating activities	Net cash provided by operating activities	657.5	396.0	454.7	Net cash provided by operating activities	649.5	657.5	396.0
Cash flows from investing activities:	Cash flows from investing activities:				Cash flows from investing activities:			
Acquisitions of companies, net of cash acquired					Acquisitions of companies, net of cash acquired			

Purchases of properties, plants and equipment	Purchases of properties, plants and equipment	(176.3)	(140.7)	(131.4)	Purchases of properties, plants and equipment	(213.6)	(176.3)	(140.7)
Purchases of and investments in timber properties	Purchases of and investments in timber properties	(6.7)	(6.6)	(5.4)	Purchases of and investments in timber properties	(6.0)	(6.7)	(6.6)
Proceeds from the sale of properties, plants, equipment and other assets	Proceeds from the sale of properties, plants, equipment and other assets	20.3	16.2	33.4	Proceeds from the sale of properties, plants, equipment and other assets	8.6	20.3	16.2
Proceeds from the sale of businesses	Proceeds from the sale of businesses	139.2	2.7	80.9	Proceeds from the sale of businesses	105.3	139.2	2.7
Proceeds on timberlands	Proceeds on timberlands	—	145.1	—	Proceeds on timberlands	—	—	145.1
Payments for deferred purchase price of acquisitions	Collections on receivables held in special purpose entities	—	50.9	—	Payments for deferred purchase price of acquisitions	(22.1)	(4.7)	(3.7)
Collections on receivables held in special purpose entities	Collections on receivables held in special purpose entities	—	50.9	—	Collections on receivables held in special purpose entities	—	—	50.9
Payments for issuance of loans receivable	Payments for issuance of loans receivable	—	(15.0)	—	Payments for issuance of loans receivable	—	—	(15.0)
Other	Other	(4.7)	(5.8)	(2.7)	Other	—	—	(2.1)
Net cash (used in) provided by investing activities	Net cash (used in) provided by investing activities	(28.2)	46.8	(25.2)	Net cash (used in) provided by investing activities	(670.2)	(28.2)	46.8
<b>Cash flows from financing activities:</b>	<b>Cash flows from financing activities:</b>				<b>Cash flows from financing activities:</b>			
Proceeds from issuance of long-term debt	Proceeds from issuance of long-term debt	3,915.8	1,806.4	1,319.9	Proceeds from issuance of long-term debt	2,285.6	3,915.8	1,806.4
Payments on long-term debt	Payments on long-term debt	(4,105.2)	(2,176.4)	(1,578.4)	Payments on long-term debt	(2,028.6)	(4,105.2)	(2,176.4)
Proceeds on short-term borrowings, net	Proceeds on short-term borrowings, net	(36.3)	21.1	17.0	(Payments on) proceeds from short-term borrowings, net	(0.7)	(36.3)	21.1
(Payments on) proceeds from short-term borrowings, net					Proceeds from trade accounts receivable credit facility	180.2	301.9	106.0
Proceeds from trade accounts receivable credit facility	Proceeds from trade accounts receivable credit facility	301.9	106.0	76.8	Payments on trade accounts receivable credit facility	(145.8)	(365.3)	(23.1)
Payments on trade accounts receivable credit facility	Payments on trade accounts receivable credit facility	(365.3)	(23.1)	(122.9)	Payments for liabilities held in special purpose entities	—	—	(43.3)
Payments for liabilities held in special purpose entities	Payments for liabilities held in special purpose entities	—	(43.3)	—	Dividends paid to Greif, Inc. shareholders	(116.5)	(111.3)	(105.8)
Dividends paid to Greif, Inc. shareholders	Dividends paid to Greif, Inc. shareholders	(111.3)	(105.8)	(104.3)	Dividends paid to noncontrolling interests	(17.2)	(7.8)	(13.4)
Dividends paid to noncontrolling interests					Payments for debt extinguishment and issuance costs	(20.8)	—	—
Payments for share repurchases	Payments for share repurchases	(71.1)	—	—				

Dividends paid to noncontrolling interests		Dividends paid to noncontrolling interests	(14.2)	(17.2)	(7.8)
Payments for debt extinguishment and issuance costs		Payments for debt extinguishment and issuance costs	—	(20.8)	—
Payments for share repurchases		Payments for share repurchases	(63.9)	(71.1)	—
Forward contract for accelerated share repurchases	Forward contract for accelerated share repurchases	Forward contract for accelerated share repurchases	—	(15.0)	—
Purchases of redeemable noncontrolling interest	(6.5)	—	—	—	—
Tax withholding payments for stock-based awards		Tax withholding payments for stock-based awards	(13.7)	—	—
Purchases of redeemable and mandatorily redeemable noncontrolling interest		Purchases of redeemable and mandatorily redeemable noncontrolling interest	(7.3)	(6.5)	—
Other, net		Other, net	(5.4)	—	—
Net cash used in financing activities	(531.0)	(422.9)	(405.3)	—	—
Net cash provided by (used in) financing activities		Net cash provided by (used in) financing activities	69.7	(531.0)	(422.9)
Reclassification of cash to assets held for sale	Reclassification of cash to assets held for sale	Reclassification of cash to assets held for sale	—	—	0.5
Effects of exchange rates on cash	Effects of exchange rates on cash	Effects of exchange rates on cash	(75.8)	(1.7)	4.4
Net increase in cash and cash equivalents	Net increase in cash and cash equivalents	Net increase in cash and cash equivalents	22.5	18.7	28.6
Cash and cash equivalents at beginning of year	Cash and cash equivalents at beginning of year	Cash and cash equivalents at beginning of year	124.6	105.9	77.3
Cash and cash equivalents at end of year	Cash and cash equivalents at end of year	Cash and cash equivalents at end of year	\$ 147.1	\$ 124.6	\$ 105.9
Year Ended October 31, (in millions)	Year Ended October 31, (in millions)	Year Ended October 31, (in millions)	2022	2021	2020
Supplemental information:	Supplemental information:	Supplemental information:			

Non-cash transactions:	Non-cash transactions:						Non-cash transactions:						
Capital expenditures included in accounts payable	Capital expenditures included in accounts payable						Capital expenditures included in accounts payable	\$ 24.4 \$ 38.7 \$ 17.2 \$ 29.1 \$ 24.4 \$ 38.7					
Schedule of interest and income taxes paid:	Schedule of interest and income taxes paid:						Schedule of interest and income taxes paid:	\$ 70.3 \$ 104.5 \$ 119.9 \$ 112.9 \$ 70.3 \$ 104.5					
Cash payments for interest expense	Cash payments for interest expense						Cash payments for interest expense	\$ 157.0 \$ 54.7 \$ 65.1 \$ 155.2 \$ 157.0 \$ 54.7					
Cash payments for taxes	Cash payments for taxes						Cash payments for taxes	\$ 157.0 \$ 54.7 \$ 65.1 \$ 155.2 \$ 157.0 \$ 54.7					

See accompanying Notes to Consolidated Financial Statements.

#### GREIF, INC. AND SUBSIDIARY COMPANIES

#### CONSOLIDATED STATEMENTS OF CHANGES IN SHAREHOLDERS' EQUITY

	Accumulated										Accumulated													
	Capital Stock		Treasury Stock		Other		Greif, Inc.		Non-controlling Interests		Total		Capital Stock		Treasury Stock		Other		Greif, Inc.		Non-controlling Interests		Total	
	Shares	Amount	Shares	Amount	Retained Earnings	Comprehensive Income (Loss)	Equity	Interests	Equity	Shares	Amount	Shares	Amount	Earnings	Comprehensive Income (Loss)	Equity	Interests	Equity	Shares	Amount	Interests	Equity		
As of October 31, 2019	48,266	\$ 162.6	28,576	\$ (134.8)	\$ 1,539.0	\$ (433.7)	\$ 1,133.1	\$ 58.0	1,191.1															
Net income					108.8		108.8		15.5	124.3														
Other comprehensive income (loss):																								
– Foreign currency translation						3.1	3.1	(12.9)	(9.8)															
– Derivative financial instruments, net of \$4.0 million tax benefit						(12.0)	(12.0)		(12.0)															
– Minimum pension liability adjustment, net of \$4.8 million tax expense						15.1	15.1		15.1															
Comprehensive income							115.0		117.6															
Current period mark to redemption value of redeemable noncontrolling interest and other					0.4		0.4		0.4															
Net income allocated to redeemable noncontrolling interests								(0.1)	(0.1)															
Dividends paid to Greif, Inc., Shareholders (\$1.76 per Class A share and \$2.63 per Class B share)					(104.3)		(104.3)		(104.3)															
Dividends paid to noncontrolling interests and other								(12.0)	(12.0)															
Long-term incentive shares issued	153	5.0	(153)	0.3			5.3		5.3															
Shared based compensation	—	1.5	—	—			1.5		1.5															
Restricted stock, executive	3	0.1	(3)	—			0.1		0.1															
Restricted stock, directors	28	1.0	(28)	0.1			1.1		1.1															
As of October 31, 2020	As of October 31, 2020	As of October 31, 2020										As of October 31, 2020										As of October 31, 2020		
Net income	Net income				390.7		390.7		22.5	413.2	Net income									390.7		22.5	413.2	
Other comprehensive income (loss):	Other comprehensive income (loss):										Other comprehensive income (loss):													
– Foreign currency translation					(0.5)		(0.5)		(1.1)	(1.6)														

– Derivative financial instruments, net of \$7.0 million tax expense	21.1	21.1	21.1				
– Minimum pension liability adjustment, net of \$15.8 million tax expense	50.4	50.4	50.4				
Foreign currency translation				Foreign currency translation			
Derivative financial instruments, net of \$7.0 million tax expense				Derivative financial instruments, net of \$7.0 million tax expense			
Minimum pension liability adjustment, net of \$15.8 million tax expense				Minimum pension liability adjustment, net of \$15.8 million tax expense			
Foreign currency translation				Foreign currency translation			
Derivative financial instruments, net of \$7.0 million tax expense				Derivative financial instruments, net of \$7.0 million tax expense			
Minimum pension liability adjustment, net of \$15.8 million tax expense				Minimum pension liability adjustment, net of \$15.8 million tax expense			
Comprehensive income	Comprehensive income	461.7	483.1	Comprehensive income	461.7	483.1	
Current period mark to redemption value of redeemable noncontrolling interest and other	Current period mark to redemption value of redeemable noncontrolling interest and other	(2.6)	(2.6)	Current period mark to redemption value of redeemable noncontrolling interest and other	(2.6)	(2.6)	(2.6)
Net income allocated to redeemable noncontrolling interests	Net income allocated to redeemable noncontrolling interests	(2.4)	(2.4)	Net income allocated to redeemable noncontrolling interests	(2.4)	(2.4)	(2.4)
Dividends paid to Greif, Inc., Shareholders (\$1.78 per Class A share and \$2.66 per Class B share)	Dividends paid to Greif, Inc., Shareholders (\$1.78 per Class A share and \$2.66 per Class B share)	(105.8)	(105.8)	Dividends paid to Greif, Inc., Shareholders (\$1.78 per Class A share and \$2.66 per Class B share)	(105.8)	(105.8)	(105.8)
Dividends paid to noncontrolling interests and other	Dividends paid to noncontrolling interests and other	(6.2)	(6.2)	Dividends paid to noncontrolling interests and other	(6.2)	(6.2)	(6.2)
Dividends earned on RSU shares	Dividends earned on RSU shares	(0.6)	(0.6)	Dividends earned on RSU shares	(0.6)	(0.6)	(0.6)
Long-term incentive shares issued	Long-term incentive shares issued	80	3.9	(80)	0.2	4.1	4.1
Shared based compensation	Shared based compensation	—	3.9	—	—	3.9	3.9
Restricted stock, executive	Restricted stock, executive	3	0.1	(3)	—	0.1	0.1
Restricted stock, directors	Restricted stock, directors	26	1.2	(26)	0.1	1.3	1.3
As of October 31, 2021	As of October 31, 2021	48,559	\$ 179.3	28,283	\$ (134.1)	\$ 1,825.6	\$ (356.5)
Net income	Net income	376.7		376.7	17.3	394.0	Net income
Other comprehensive income (loss):	Other comprehensive income (loss):						Other comprehensive income (loss):

– Foreign currency translation, net of \$113.1 million business divestment release	(21.1)	(21.1)	(6.8)	(27.9)			
– Derivative financial instruments, net of \$25.2 million tax expense	76.4	76.4	76.4				
– Minimum pension liability adjustment, net of \$5.4 million tax expense	(1.1)	(1.1)	(1.1)				
Foreign currency translation, net of \$113.1 million business divestment release			Foreign currency translation, net of \$113.1 million business divestment release		(21.1)	(21.1)	(6.8) (27.9)
Derivative financial instruments, net of \$25.2 million tax expense			Derivative financial instruments, net of \$25.2 million tax expense		76.4	76.4	76.4
Minimum pension liability adjustment, net of \$5.4 million tax expense			Minimum pension liability adjustment, net of \$5.4 million tax expense		(1.1)	(1.1)	(1.1)
Comprehensive income	430.9	441.4	Comprehensive income			430.9	441.4
Divestment of noncontrolling interest	(23.3)	(23.3)	Divestment of noncontrolling interest		—	(23.3)	(23.3)
Current period mark to redemption value of redeemable noncontrolling interest and other			Current period mark to redemption value of redeemable noncontrolling interest and other		5.5	5.5	5.5
Net income allocated to redeemable noncontrolling interests			Net income allocated to redeemable noncontrolling interests		(0.1)	(0.1)	
Dividends paid to Greif, Inc., Shareholders (\$1.88 per Class A share and \$2.81 per Class B share)			Dividends paid to Greif, Inc., Shareholders (\$1.88 per Class A share and \$2.81 per Class B share)		(111.3)	(111.3)	(111.3)
Dividends paid to noncontrolling interests and other			Dividends paid to noncontrolling interests and other		(15.4)	(15.4)	
Dividends earned on RSU shares			Dividends earned on RSU shares		(1.3)	(1.3)	(1.3)
Share repurchases			Share repurchases	(1,192) (15.0) 1,192 (71.1)		(86.1)	(86.1)
Long-term incentive shares issued			Long-term incentive shares issued	51 3.0 (51) 0.1		3.1	3.1
Shared based compensation			Shared based compensation	— 4.9 — —		4.9	4.9

Restricted stock, executive	Restricted stock, executive	3	0.1	(3)	—	0.1	0.1
Restricted stock, directors	Restricted stock, directors	22	1.2	(22)	—	1.2	1.2
<b>As of October</b>							
<b>31, 2022</b>							
Net income	Net income					359.2	359.2
Other	Other					19.9	379.1
comprehensive income (loss):	comprehensive income (loss):						
Foreign currency	Foreign currency						
translation	translation					(1.2)	(1.2)
Derivative financial instruments, net of \$0.3 million tax benefit	Derivative financial instruments, net of \$0.3 million tax benefit					0.1	(1.1)
Minimum pension liability adjustment, net of \$4.7 million tax expense	Minimum pension liability adjustment, net of \$4.7 million tax expense					(1.1)	(1.1)
(11.9)							
Comprehensive income	Comprehensive income					345.0	365.0
Current period	Current period						
mark to	mark to						
redemption value	redemption value						
of redeemable	of redeemable						
noncontrolling	noncontrolling						
interest	interest	5.5	5.5	5.5	interest	0.1	0.1
Net income	Net income						
allocated to	allocated to						
redeemable	redeemable						
noncontrolling	noncontrolling						
interests	interests			(0.1)	interests		
Dividends paid to Greif, Inc., Shareholders (\$1.88 and \$2.81 per Class A share and Class B share, respectively)		(111.3)	(111.3)	(111.3)		(2.7)	(2.7)
Dividends paid to Greif, Inc., Shareholders (\$2.02 and \$3.02 per Class A share and Class B share, respectively)					Dividends paid to Greif, Inc., Shareholders (\$2.02 and \$3.02 per Class A share and Class B share, respectively)	(116.5)	(116.5)
Dividends paid to noncontrolling interests and other				(15.4)	Dividends paid to noncontrolling interests and other	(11.9)	(11.9)
Dividends earned on RSU shares	Dividends earned on RSU shares			(1.3)	Dividends earned on RSU shares	(0.1)	(0.1)
Colleague stock purchase plan					Colleague stock purchase plan	—	0.3
Share repurchases	Share repurchases	(1,192)	(15.0)	1,192	Share repurchases	(86.1)	(86.1)
Long-term incentive shares issued	Long-term incentive shares issued	51	3.0	(51)	Long-term incentive shares issued	3.1	3.1
		0.1				350	14.7
						(350)	2.0
							16.7
							16.7

Share based compensation	Share based compensation	—	4.9	—	—	4.9	Share based compensation	—	4.2	—	—	4.2				
Restricted stock, executive	Restricted stock, executive	3	0.1	(3)	—	0.1	0.1									
Restricted stock, directors	Restricted stock, directors	22	1.2	(22)	—	1.2	1.2	18	1.2	(18)	0.1	1.3				
<b>As of October 31, 2022</b>		<b>47,443</b>	<b>\$ 173.5</b>	<b>29,399</b>	<b>\$ (205.1)</b>	<b>\$ 2,095.2</b>	<b>\$ (302.3)</b>	<b>\$ 1,761.3</b>	<b>\$ 33.0</b>	<b>\$ 1,794.3</b>						
<b>As of October 31, 2023</b>							<b>31, 2023</b>	<b>46,805</b>	<b>\$ 208.4</b>	<b>30,037</b>	<b>\$ (281.9)</b>	<b>\$ 2,337.9</b>	<b>\$ (316.5)</b>	<b>\$ 1,947.9</b>	<b>\$ 38.4</b>	<b>\$ 1,986.3</b>

See accompanying Notes to Consolidated Financial Statements.

## **GREIF, INC. AND SUBSIDIARY COMPANIES**

### **NOTES TO CONSOLIDATED FINANCIAL STATEMENTS**

#### **NOTE 1 – BASIS OF PRESENTATION AND SUMMARY OF SIGNIFICANT ACCOUNTING POLICIES**

##### **The Business**

Greif, Inc. and its subsidiaries (collectively, "Greif," "our," or the "Company"), principally manufacture rigid industrial packaging products, such as steel, fibre and plastic drums, rigid intermediate bulk containers, jerrycans and other small plastics, closure systems for industrial packaging products, transit protection products, water bottles and remanufactured and reconditioned industrial containers, and provides services, such as container life cycle management, filling, logistics, warehousing and other packaging services. The Company produces and sells containerboard, corrugated sheets, corrugated containers and other corrugated products to customers in North America in industries such as packaging, automotive, food and building products. The Company also produces and sells coated recycled paperboard and uncoated recycled paperboard, some of which are used to produce and sell industrial products (tubes and cores, construction products and protective packaging). The Company produces and sells bulk and specialty partitions made from both containerboard and uncoated recycled paperboard. In addition, the Company also purchases and sells recycled fiber and produces and sells adhesives used in the Company's paperboard products. In addition, the Company owns timber properties in the southeastern United States which are actively harvested and regenerated. The Company has operations in over 35 countries.

Due to the variety of its products, the Company has many customers buying different products and due to the scope of the Company's sales, no one customer is considered principal in the total operations of the Company.

The Company supplies a cross section of industries, such as chemicals, paints and pigments, food and beverage, petroleum, industrial coatings, agriculture, pharmaceuticals, minerals, packaging, automotive and building products, and makes spot deliveries on a day-to-day basis as its products are required by its customers. The Company does not operate on a backlog to any significant extent and maintains only limited levels of finished goods. Many customers place their orders weekly for delivery during the same week.

The Company's raw materials are principally steel, resin, containerboard, old corrugated containers, pulpwood, recycled coated and uncoated paperboard and used industrial packaging for reconditioning.

There were approximately 12,000 full time employees of the Company as of **October 31, 2022** **October 31, 2023**.

##### **Principles of Consolidation and Basis of Presentation**

The consolidated financial statements include the accounts of Greif, Inc., all wholly-owned and majority-owned subsidiaries, joint ventures controlled by the Company or for which the Company is the primary beneficiary and equity earnings of unconsolidated affiliates. All intercompany transactions and balances have been eliminated in consolidation. Investments in unconsolidated affiliates are accounted for using the equity method based on the Company's ownership interest in the unconsolidated affiliate.

The Company's consolidated financial statements are presented in accordance with accounting principles generally accepted in the United States ("GAAP"). Certain prior year amounts have been reclassified to conform to the current year presentation.

The Company's fiscal year begins on November 1 and ends on October 31 of the following year. Any references to years or to any quarter of those years, relates to the fiscal year or quarter, as the case may be, ended in that year, unless otherwise stated.

##### **Use of Estimates**

The preparation of consolidated financial statements in conformity with GAAP requires management to make certain estimates, judgments and assumptions that affect the amounts reported in the consolidated financial statements and accompanying notes. Though actual amounts could significantly or materially differ from estimates, the most significant estimates are related to:

- Expected useful lives assigned to properties, plants and equipment;
- Goodwill and other intangible assets;
- Estimates of fair value;
- Environmental liabilities;
- Pension and post-retirement benefits, including plan assets;

- Income taxes;
- Net assets held for sale; and
- Contingencies.

#### **Cash and Cash Equivalents**

The Company considers highly liquid investments with an original maturity of three months or less to be cash equivalents. The carrying value of cash equivalents approximates fair value.

#### **Allowance for Doubtful Accounts**

The allowance for doubtful accounts totaled **\$6.1 million** \$6.2 million and \$6.1 million as of **October 31, 2022** **October 31, 2023** and **2021**, 2022, respectively. The Company recognizes allowances for bad debts based on the length of time receivables are past due with allowance percentages, based on its historical experiences, applied on a graduated scale relative to the age of the receivable amounts. If the Company is aware of a specific **customer's** customer's inability to meet its financial obligations to the Company, the Company records a specific allowance for bad debts. Amounts deemed uncollectible are written-off against the allowance for doubtful accounts.

#### **Concentration of Credit Risk and Major Customers**

The Company maintains cash depository accounts with banks throughout the world and invests in high quality short-term liquid instruments. Such investments are made only in instruments issued by high quality institutions and mature within three months. The Company did not incur any losses related to these investments during the years ended **October 31, 2022** **October 31, 2023**, **2021**, 2022 and **2020**, 2021.

Trade receivables can be potentially exposed to a concentration of credit risk with customers or in particular industries. Such credit risk is considered by management to be limited due to the Company's many customers, none of which are considered principal in the total operations of the Company, and its geographic scope of operations in a variety of industries throughout the world. The Company does not have an individual customer that exceeds 10 percent of total revenue. In addition, the Company performs ongoing credit evaluations of its customers' financial conditions and maintains reserves for credit losses. Such losses historically have been within management's expectations.

#### **Inventory**

The Company primarily uses the FIFO method of inventory valuation. Reserves for slow moving and obsolete inventories are provided based on historical experience, inventory aging and product demand. The Company continuously evaluates the adequacy of these reserves and adjusts these reserves as required.

#### **Net Assets Held for Sale**

Net assets held for sale represent land, buildings and other assets and liabilities for locations that have met the criteria of "held for sale" accounting, as specified by Accounting Standards Codification ("ASC" ("ASC")) 360, "Property, Plant and Equipment," at the lower of carrying value or fair value less cost to sell. Fair value is based on the estimated proceeds from the sale of the assets utilizing recent purchase offers, market comparables and/or reliable third party data. The Company's Company's estimate as to fair value is regularly reviewed and assets are subject to changes, such as in the commercial real estate markets and the Company's Company's continuing evaluation as to the asset's acceptable sale price. The net assets held for sale are being marketed for sale and it is the Company's intention to complete the sales of these assets within the upcoming year, assuming offers deemed sufficient by management are received as result of marketing efforts. See Note 6 herein for additional information regarding assets and liabilities held for sale.

#### **Goodwill and Indefinite-Lived Intangibles**

Goodwill is the excess of the purchase price of an acquired entity over the amounts assigned to tangible and intangible assets and liabilities assumed in the business combination. The Company accounts for goodwill and purchased indefinite-lived intangible assets in accordance with ASC 350, "Intangibles – Goodwill and Other." Under ASC 350, goodwill and purchased intangible assets with indefinite lives are not amortized, but instead are tested for impairment at least annually. The Company tests for impairment of goodwill and indefinite-lived intangible assets as of August 1, or more frequently if certain indicators are present or changes in circumstances suggest that impairment may exist.

In accordance with ASC 350, the Company has the option to first assess qualitative factors to determine whether it is necessary to perform the quantitative test for goodwill impairment. If the Company believes, as a result of its qualitative assessment, that it is more-likely-than-not that the fair value of a reporting unit is less than its carrying amount, the quantitative impairment test is required. The quantitative test for goodwill impairment is conducted at the reporting unit level by comparing the carrying value of each reporting unit to the estimated fair value of the unit. If the carrying value of a reporting unit exceeds its estimated fair value, then the goodwill of the reporting unit is impaired. Goodwill impairment is recognized as the amount that the carrying value exceeds the fair value; not to exceed the balance of goodwill attributable to the reporting unit. When a portion of a reporting unit is disposed of, goodwill is allocated to the gain or loss on that disposition based on the relative fair values of the portion of the reporting unit subject to disposition and the portion of the reporting unit that will be retained.

The Company's determinations of estimated fair value of the reporting units are based on both the market approach and a discounted cash flow analysis utilizing the income approach. Under the market approach, the principal inputs are market prices and valuation multiples for public companies engaged in businesses that are considered comparable to the reporting unit. Under the income approach, the principal inputs are the reporting unit's cash-generating capabilities and the discount rate. The discount rates used in the income approach are based on a market participant's weighted average cost of capital. The use of alternative estimates, including different peer groups or changes in the industry, or adjusting the discount rate, earnings before interest, taxes, depreciation, depletion and amortization forecasts or cash flow assumptions used could affect the estimated fair value of the reporting units and potentially result in goodwill impairment. Any identified impairment would result in an expense to the Company's results of operations. See Note 23 herein for additional information regarding goodwill and other intangible assets.

#### **Other Intangibles**

The Company accounts for intangible assets in accordance with ASC 350. Definite lived intangible assets are amortized over their useful lives on a straight-line basis, with amortization expense being recorded on the same basis. The useful lives for definite lived intangible assets vary depending on the type of asset and the terms of contracts or the valuation performed. Amortization expense on intangible assets is recorded on performed, but generally have the straight-line method over their useful lives as follows: range of:

	Years
Trade Trademarks and trade names	10-15 5-15
Customer relationships	5-23
Non-compete agreements	3-10
Other intangibles	7-15

#### Acquisitions

From time to time, the Company acquires businesses and/or assets that augment and complement its operations. In accordance with ASC 805, "Business Combinations," these acquisitions are accounted for under the purchase method of accounting. Under this method, the Company allocates the fair value of purchase consideration transferred to the tangible and intangible assets acquired and liabilities assumed based on their estimated fair values on the date of the acquisition. The excess purchase consideration over the aggregate fair value of tangible and intangible assets, net of liabilities assumed, is recorded as goodwill. The Company's Company's estimates of fair value are based upon assumptions believed to be reasonable, but which are inherently uncertain and unpredictable and, as a result, actual results may differ from estimates.

During the measurement period, not to exceed one year from the date of acquisition, the Company may record adjustments to the assets acquired and liabilities assumed, with a corresponding offset to goodwill if new information is obtained related to facts and circumstances that existed as of the acquisition date. After the measurement period, any subsequent adjustments are reflected in the consolidated statements of income. Acquisition costs, such as legal and consulting fees, are expensed as incurred.

The Company classifies costs incurred in connection with acquisitions and their integration as acquisition and integration related costs. These costs are expensed as incurred and consist primarily of transaction costs, legal and consulting fees, integration costs and changes in the fair value of contingent payments (earn-outs) and are recorded within Acquisition and Integration related Costs line item presented on the consolidated income statement. Acquisition transaction costs are incurred during the initial evaluation of a potential targeted acquisition and primarily relate to costs to analyze, negotiate and consummate the transaction as well as financial and legal due diligence activities. Post-acquisition integration activities are costs incurred to combine the operations of an acquired enterprise into the Company's operations.

The consolidated financial statements include the results of operations from these business combinations from the date of acquisition.

#### Internal Use Software

Internal use software is accounted for under ASC 985, "Software." Internal use software is software that is acquired, internally developed or modified solely to meet the Company's needs and for which, during the software's development or modification, a plan does not exist to market the software externally. Costs incurred to acquire and develop the software during the application development stage and for upgrades and enhancements that provide additional functionality are capitalized and then amortized over a three-year 3 to 7 year period. Internal use software is capitalized as a component of machinery and equipment on the consolidated balance sheets.

#### Long-Lived Assets

Properties, plants and equipment are stated at cost. Depreciation on properties, plants and equipment is provided on the straight-line method over the estimated useful lives of the assets, with general useful lives of the assets as follows:

	Years
Buildings	30
Machinery and equipment	10-15

Depreciation expense was \$138.1 million \$156.8 million, \$138.1 million and \$164.6 million in 2023, 2022 and \$169.1 million in 2022, 2021, and 2020, respectively. Expenditures for repairs and maintenance are charged to expense as incurred. When properties are retired or otherwise disposed of, the cost and accumulated depreciation are eliminated from the asset and related allowance accounts. Gains or losses are credited or charged to income as incurred.

The Company capitalizes interest on long-term fixed asset projects using a rate that approximates the weighted average cost of borrowing. For the years ended October 31, 2022 October 31, 2023, 2022 and 2021, the Company's Company's capitalized interest costs were not material.

The Company tests for impairment of properties, plants and equipment if certain indicators are present to suggest that impairment may exist. Long-lived assets are grouped together at the lowest level, generally at the plant level, for which identifiable cash flows are largely independent of cash flows of other groups of long-lived assets. As events warrant, the Company evaluates the recoverability of long-lived assets, other than goodwill and indefinite-lived intangible assets, by assessing whether the carrying value can be recovered over their remaining useful lives through the expected future undiscounted operating cash flows of the underlying business. Future decisions to change the Company's Company's manufacturing processes, exit certain businesses, reduce excess capacity, temporarily idle facilities and close facilities could also result in material impairment losses. Any impairment loss that may be required is determined by comparing the carrying value of the assets to their estimated fair value.

As of October 31, 2022 October 31, 2023, the Company's Company's timber properties consisted of approximately 175,000 acres, all of which were located in the southeastern United States. The Company's land costs are maintained by tract. Upon acquisition of a new timberland tract, the Company records separate amounts for land, merchantable timber and pre-merchantable timber allocated as a percentage of the values being purchased. The Company begins recording pre-merchantable timber costs at the time the site is prepared for planting. Costs capitalized during the establishment period include site preparation by aerial spray, costs of seedlings, including refrigeration rental and trucking,

planting costs, herbaceous weed control, woody release and labor and machinery use. The Company does not capitalize interest costs in the process. Property taxes are expensed as incurred. New road construction costs are capitalized as land improvements and depreciated over a 10 to 20 year period. Road repairs and maintenance costs are expensed as incurred. Costs after establishment of the seedlings, including management costs, pre-commercial thinning costs and fertilization costs, are expensed as incurred. Once the timber becomes merchantable, the cost is transferred from the pre-merchantable timber category to the merchantable timber category in the depletion block.

Merchantable timber costs are maintained by five product classes: pine sawtimber, pine chip-n-saw, pine pulpwood, hardwood sawtimber and hardwood pulpwood, within a depletion block, with each depletion block based upon a geographic district or subdistrict. Currently, the Company has five depletion blocks. These same depletion blocks are used for pre-merchantable timber costs. Each year, the Company estimates the volume of the Company's merchantable timber for the five product classes by each depletion block and depletion costs recognized upon sales are calculated as volumes sold times the unit costs in the respective depletion block. For the years ended **October 31, 2022**, **October 31, 2023**, **2022** and **2021**, and **2020**, the Company's depletion expense was not material.

## Contingencies

Various lawsuits, claims and proceedings have been or may be instituted or asserted against the Company, including those pertaining to environmental, product liability and safety and health matters. While the amounts claimed may be substantial, the ultimate liability cannot currently be determined because of the considerable uncertainties that exist.

All lawsuits, claims and proceedings are considered by the Company in establishing reserves for contingencies in accordance with ASC 450, "Contingencies." In accordance with the provisions of ASC 450, the Company accrues for a litigation-related liability when it is probable that a liability has been incurred and the amount of the loss can be reasonably estimated. Based on currently available information known to the Company, the Company believes that its reserves for these litigation-related liabilities are reasonable and that the ultimate outcome of any pending matters is not likely to have a material effect on the Company's financial position or results of operations.

## Environmental Cleanup Costs

The Company accounts for environmental cleanup costs in accordance with ASC 410, "Asset Retirement and Environmental Obligations." The Company expenses environmental expenditures related to existing conditions resulting from past or current operations and from which no current or future benefit is discernible. Expenditures that extend the life of the related property or mitigate or prevent future environmental contamination are capitalized. The Company determines its liability on a site-by-site basis and records a liability at the time when it is probable and can be reasonably estimated. The Company's estimated liability is reduced to reflect the anticipated participation of other potentially responsible parties in those instances where it is probable that such parties are legally responsible and financially capable of paying their respective shares of the relevant costs.

## Self-insurance

The Company is self-insured for certain of the claims made under its employee medical and dental insurance programs. The Company had recorded liabilities totaling **\$7.9 million** **\$7.0 million** and **\$7.4 million** **\$7.9 million** for estimated costs related to outstanding claims as of **October 31, 2022**, **October 31, 2023** and **2021**, **2022**, respectively. These costs include an estimate for expected settlements on pending claims, administrative fees and an estimate for claims incurred but not reported. These estimates are based on management's assessment of outstanding claims, historical analyses and current payment trends. The Company recorded an estimate for the claims incurred, but not reported using an estimated lag period based upon historical information.

The Company has certain deductibles applied to various insurance policies including general liability, product, vehicle and workers' compensation. The Company maintains net liabilities totaling **\$24.7 million** **\$22.2 million** and **\$24.0 million** **\$24.7 million** for anticipated costs related to general liability, product, vehicle and workers' compensation claims as of **October 31, 2022**, **October 31, 2023** and **2021**, **2022**, respectively. These costs include an estimate for expected settlements on pending claims, defense costs and an estimate for claims incurred but not reported. These estimates are based on the Company's assessment of its deductibles, outstanding claims, historical analysis, actuarial information and current payment trends.

## Income Taxes

Income taxes are accounted for under ASC 740, "Income Taxes." In accordance with ASC 740, deferred tax assets and liabilities are recognized for the future tax consequences attributable to differences between the financial statement carrying amounts of existing assets and liabilities and their respective tax bases, as measured by enacted tax rates that are expected to be in effect in the periods when the deferred tax assets and liabilities are expected to be settled or realized. Valuation allowances are established when management believes it is more likely than not that some portion of the deferred tax assets will not be realized.

The Company's effective tax rate is impacted by the amount of income generated in each taxing jurisdiction, statutory tax rates and tax planning opportunities available to the Company in the various jurisdictions in which the Company operates. Significant judgment is required in determining the Company's effective tax rate and in evaluating its tax positions.

Tax benefits from uncertain tax positions are recognized when it is more likely than not that the position will be sustained upon examination, including resolutions of any related appeals or litigation processes, based on the technical merits. The amount recognized is measured as the largest amount of tax benefit that is greater than 50 percent likely of being realized upon settlement. The Company's effective tax rate includes the impact of reserve provisions and changes to reserves on uncertain tax positions that are not more likely than not to be sustained upon examination as well as related interest and penalties.

A number of years may elapse before a particular matter, for which the Company has established a reserve, is audited and finally resolved. The number of years with open tax audits varies depending on the tax jurisdiction. While it is often difficult to predict the final outcome or the timing of resolution of any particular tax matter, the Company believes that its reserves reflect the probable outcome of known tax contingencies. Unfavorable settlement of any particular issue would require use of the Company's cash. Favorable resolution would be recognized as a reduction to the Company's effective tax rate in the period of resolution.

## Restructuring Charges

The Company accounts for all exit or disposal activities in accordance with ASC 420, "Exit or Disposal Cost Obligations." Under ASC 420, a liability is measured at its fair value and recognized as incurred.

For termination costs associated with employees who are involuntarily terminated under the terms of a one-time benefit arrangement, the Company recognizes liabilities and associated costs as of announcement date unless the employees are required to stay for a certain period of time after restructuring announcement and ratable recognition between the announcement date and termination date is materially different from announcement date recognition. For termination costs associated with a non-lease contract and costs incurred without economic benefit as a result of restructuring activities, the Company recognizes liabilities and associated costs as of contract termination date. Facility exit and employee relocation costs are recognized and measured at their respective fair value in the period in which the liability is incurred. The liability is not recognized before it is incurred, even if the costs are incremental to other operating costs and will be incurred as a direct result of a plan.

#### **Revenue Recognition**

Revenue is measured as the amount of consideration the Company expects to be entitled to in exchange for transferring goods or providing services. Customer payment terms are typically less than one year and as such, transaction prices are not adjusted for the effects of a significant financing component. Standalone selling prices for each performance obligation are generally stated in the contract. Variable consideration in the form of volume rebates is estimated based on contract terms and historical experience of actual results limited to the amount which is probable will not result in reversal of cumulative revenue recognized when the variable consideration is resolved. Taxes collected from customers and remitted to governmental authorities are excluded from net sales.

For the vast majority of revenues, contracts with customers are either a purchase order or the combination of a purchase order with a master supply agreement. A performance obligation is considered an individual unit sold. The Company does not bundle products. Prices negotiated with each individual customer are representative of the stand-alone selling price of the product. The Company typically satisfies the performance obligation at a point in time when control is transferred to customers. The point in time when control of goods is transferred is largely dependent on delivery terms.

Contract liabilities relate primarily to prepayments received from the Company's customers before revenue is recognized and from volume rebates to customers. These amounts are included in other current liabilities in the consolidated balance sheets. The Company does not have any material contract assets. Freight charged to customers is included in net sales in the statement of income.

The Company's contracts with customers are broadly similar in nature throughout its reportable segments, but the amount, timing and uncertainty of revenue and cash flows may vary in each reportable segment due to geographic factors. See Note 13 herein for additional disclosures of revenue disaggregated by geography for each reportable segment.

#### **Shipping and Handling Fees and Costs**

The Company includes shipping and handling fees and costs in cost of products sold.

#### **Other Expense, net**

Other expense, net primarily represents foreign currency transaction gains and losses, non-service cost components of net periodic post-retirement benefit costs and other infrequent non-operating items.

#### **Currency Translation**

In accordance with ASC 830, "Foreign Currency Matters," the assets and liabilities denominated in a foreign currency are translated into United States dollars at the rate of exchange existing at period-end, and revenues and expenses are translated at average exchange rates.

The cumulative translation adjustments, which represent the effects of translating assets and liabilities of the Company's international operations, are presented in the consolidated statements of changes in shareholders' equity in accumulated other comprehensive income (loss). Transaction gains and losses on foreign currency transactions denominated in a currency other than an entity's functional currency are credited or charged to income. The amounts included in other expense, net related to foreign currency transaction losses were not material for the years ended **October 31, 2022** **October 31, 2023**, **2021** **2022** and **2020**.

#### **Derivative Financial Instruments**

In accordance with ASC 815, "Derivatives and Hedging," the Company records all derivatives in the consolidated balance sheet as either assets or liabilities measured at fair value. Dependent on the designation of the derivative instrument, changes in fair value are recorded to earnings or shareholders' equity through other comprehensive income (loss).

The Company may from time to time use interest rate swap agreements to hedge against changing interest rates. For interest rate swap agreements designated as cash flow hedges, the net gain or loss on the derivative instrument is reported as a component of other comprehensive income (loss) and reclassified into earnings in the same period or periods during which the hedged transaction affects earnings. The Company's interest rate swap agreements effectively convert a portion of floating rate debt to a fixed rate basis, thus reducing the impact of interest rate changes on future interest expense.

The Company's cross currency interest rate swap agreements synthetically swap United States ("U.S.") dollar denominated fixed rate debt for Euro denominated fixed rate debt and are designated as either net investment hedges or cash flow hedges for accounting purposes. The gain or loss on the net investment hedge derivative instruments is included in the foreign currency translation component of other comprehensive income until the net investment is sold, diluted, or liquidated. The gain or loss on the cash flow hedge derivative instruments is included in the unrealized foreign exchange component of other expense, offset by the underlying gain or loss on the underlying cash flows that are being hedged. Interest payments received from the cross currency swap are excluded from the net investment hedge effectiveness assessment and are recorded in interest expense, net on the consolidated statements of income.

The Company enters into currency forward contracts to hedge certain currency transactions and short-term intercompany loan balances with its international businesses. Such contracts limit the Company's exposure to both favorable and unfavorable currency fluctuations. These contracts are adjusted to reflect market value as of each balance sheet date, with the resulting changes in fair value being recognized in other expense, net.

Any derivative contract that is either not designated as a hedge, or is so designated but is ineffective, has its changes to market value recognized in earnings immediately. If a cash flow or fair value hedge ceases to qualify for hedge accounting, the contract would continue to be carried on the balance sheet at fair value until settled and have the adjustments to the contract's fair value recognized in earnings. If a forecasted transaction were no longer probable to occur, amounts previously deferred in accumulated other comprehensive income (loss) would be recognized immediately in earnings.

## Variable Interest Entities

The Company evaluates whether an entity is a variable interest entity ("VIE") and determines if the primary beneficiary status is appropriate on a quarterly basis. The Company consolidates VIEs for which it is the primary beneficiary. If the Company is not the primary beneficiary and an ownership interest is held, the VIE is accounted for under the equity method of accounting. When assessing the determination of the primary beneficiary, the Company considers all relevant facts and circumstances, including: the power to direct the activities of the VIE that most significantly impact the VIE's economic performance; the obligation to absorb the expected losses; and/or the right to receive the expected returns of the VIE.

## Fair Value

The Company uses ASC 820, "Fair Value Measurements and Disclosures" to account for fair value. ASC 820 defines fair value, establishes a framework for measuring fair value in GAAP and expands disclosures about assets and liabilities measured at fair value. Additionally, this standard established a three-level fair value hierarchy that prioritizes the inputs used to measure fair value. This hierarchy requires entities to maximize the use of observable inputs and minimize the use of unobservable inputs.

The three levels of inputs used to measure fair values are as follows:

- Level 1 – Observable inputs such as unadjusted quoted prices in active markets for identical assets and liabilities.
- Level 2 – Observable inputs other than quoted prices in active markets for identical assets and liabilities.
- Level 3 – Unobservable inputs that are supported by little or no market activity and that are significant to the fair value of the assets and liabilities.

The Company presents various fair value disclosures in Note 6 and Note 9 of the Notes to Consolidated Financial Statements included in Item 8 of this Form 10-K.

## Newly Adopted Accounting Standards

In December 2019, There have been no new accounting pronouncements adopted since the Financial filing of the 2022 Form 10-K.

## Recently Issued Accounting Standards Board ("FASB")

In November 2023, the FASB issued Accounting Standards Update ("ASU") 2019-12, "Income Taxes ASU 2023-07, "Segment Reporting (Topic 740) 280: Simplifying the Accounting for Income Taxes", Improvements to Reportable Segment Disclosures," which is intended to simplify accounting for income taxes, improve reportable segment disclosure requirements. This ASU is effective for fiscal years beginning after December 15, 2020 December 15, 2023, including and interim periods within those fiscal years beginning after December 15, 2024, with early adoption permitted. The effective date for the Company adopted to adopt this ASU on November 1, 2021, for fiscal year-end and interim period is November 1, 2024 and November 1, 2025 respectively. The adoption Company is in the process of determining the potential impact of adopting this guidance did not have a material impact on the Company's its financial position, results of operations, comprehensive income, cash flows or flow and disclosures.

## Recently Issued Accounting Standards

### There NOTE 2 — ACQUISITIONS AND DIVESTITURES

#### Acquisitions

##### **ColePak Acquisition**

The Company acquired a 51% ownership interest in ColePak, LLC ("ColePak") on August 23, 2023 (the "ColePak Acquisition"). ColePak is a manufacturer of bulk and specialty partitions made from both containerboard and uncoated recycled board and is the second largest supplier of paper partitions in North America. The total purchase price for this acquisition, net of cash acquired, was \$74.6 million. The fair value of the remaining noncontrolling interest of 49% after the acquisition was \$72.1 million, which was determined using a Monte Carlo option pricing model, and is redeemable through contractual terms.

The following table summarizes the consideration transferred to acquire ColePak and the preliminary valuation of identifiable assets acquired and liabilities assumed at the acquisition date:

(in millions)	Amounts Recognized as of the Acquisition Date	
<b>Fair value of consideration transferred</b>		
Cash consideration	\$	74.6
Noncontrolling interest		72.1
<b>Recognized amounts of identifiable assets acquired and liabilities assumed</b>		
Accounts receivable	\$	6.7
Inventories		3.3
Intangibles		59.0
Operating lease assets		8.6
Properties, plants and equipment		19.4
<b>Total assets acquired</b>		<b>97.0</b>
Accounts payable and other current liabilities		(1.8)
Operating lease liabilities		(8.6)
<b>Total liabilities assumed</b>		<b>(10.4)</b>
<b>Total identifiable net assets</b>	<b>\$</b>	<b>86.6</b>
<b>Goodwill</b>	<b>\$</b>	<b>60.1</b>

The Company recognized goodwill related to this acquisition of \$60.1 million. The goodwill recognized in this acquisition was attributable to the acquired assembled workforce, expected synergies, economies of scale and expanded market presence, none of which qualify for recognition as a separate intangible asset. ColePak is reported within the Paper Packaging & Services segment to which the goodwill was assigned. The goodwill is expected to be deductible for tax purposes.

The fair value for acquired customer relationship intangibles was determined as of the acquisition date based on estimates and judgments regarding expectations for the future after-tax cash flows arising from the revenue from customer relationships that existed on the acquisition date over their estimated lives, including the probability of expected future contract renewals and revenue, less a contributory assets charge, all of which is discounted to present value. The fair values of the trademark intangible assets were determined utilizing the relief from royalty method, which is a form of the income approach. Under this method, a royalty rate based on observed market royalties is applied to projected revenue supporting the trademarks and discounted to present value using an appropriate discount rate.

Acquired intangible assets are being amortized over the estimated useful lives on a straight-line basis. The following table summarizes the preliminary purchase price allocation and weighted average remaining useful lives for identifiable intangible assets acquired as of the acquisition date:

(in millions)	Purchase Price Allocation	Weighted Average Estimated Useful Life
Customer relationships	\$ 50.6	15.0
Trademarks	8.4	5.0
<b>Total intangible assets</b>	<b>\$ 59.0</b>	

The Company has not yet finalized the determination of the fair value of assets acquired and liabilities assumed, including income taxes and contingencies. The Company expects to finalize these amounts within one year of the acquisition date. The estimate of fair value and purchase price allocation were based on information available at the time of closing the acquisition, and the Company continues to evaluate the underlying inputs and assumptions that are being used in fair value estimates. Accordingly, these preliminary estimates are subject to adjustments during the measurement period, not to exceed one year from the date of the acquisition, based upon new information obtained about facts and circumstances that existed as of the date of closing the acquisition.

ColePak's results of operations have been no new accounting pronouncements issued since included in the filing Company's financial statements for the period subsequent to the acquisition date of August 23, 2023. ColePak contributed net sales of \$10.4 million for the year ended October 31, 2023.

#### **Centurion Acquisition**

The Company completed its acquisition of controlling influence over Centurion Container LLC ("Centurion") on March 31, 2023 (the "Centurion Acquisition"), by increasing the Company's ownership interest in Centurion from approximately 10% to 80%. Centurion is a leader in the North American intermediate bulk container ("IBC") reconditioning industry and is involved in IBC rebottling, reconditioning and distribution. The total purchase price for this acquisition, net of cash acquired, was \$144.5 million. The fair value of the 2021 Form 10-K remaining noncontrolling interest of 20% after the acquisition was \$40.9 million, which was determined using the implied enterprise value based on the purchase price and redemption mechanism, and is redeemable through contractual terms.

Prior to the acquisition, the Company accounted for its approximately 10% ownership interest under the equity method of accounting. The acquisition of a controlling financial interest was accounted for as a step acquisition in accordance with ASC 805. As a result, fair value of our previously held interest in Centurion of \$16.8 million was valued using a discounted cash flow model, resulting in a gain of \$9.8 million. The gain was reflected in the consolidated statements of income within the gain on disposal of businesses, net line.

The following table summarizes the consideration transferred to acquire Centurion and the preliminary valuation of identifiable assets acquired and liabilities assumed at the acquisition date:

(in millions)	Amount Recognized as of Acquisition Date			
	Amounts Recognized as of the Acquisition Date	Measurement Period	Adjustments	of Acquisition Date (as Adjusted)
<b>Fair value of consideration transferred</b>				
Cash consideration	\$ 144.5	\$ —	\$ —	\$ 144.5
Noncontrolling interest	40.9	—	—	40.9
Previously held interest	16.8	—	—	16.8
<b>Recognized amounts of identifiable assets acquired and liabilities assumed</b>				
Accounts receivable	\$ 12.4	\$ —	\$ —	\$ 12.4
Inventories	2.0	—	—	2.0
Prepaid and other current assets	0.4	—	—	0.4
Intangibles	83.4	9.4	—	92.8
Operating lease assets	10.2	—	—	10.2
Properties, plants and equipment	7.7	—	—	7.7
<b>Total assets acquired</b>	<b>116.1</b>	<b>9.4</b>	<b>—</b>	<b>125.5</b>
Accounts payable	(4.2)	—	—	(4.2)
Other current liabilities	(4.3)	—	—	(4.3)
Operating lease liabilities	(10.2)	—	—	(10.2)
<b>Total liabilities assumed</b>	<b>(18.7)</b>	<b>—</b>	<b>—</b>	<b>(18.7)</b>
<b>Total identifiable net assets</b>	<b>\$ 97.4</b>	<b>\$ 9.4</b>	<b>\$ —</b>	<b>106.8</b>
<b>Goodwill</b>	<b>\$ 104.8</b>	<b>\$ (9.4)</b>	<b>\$ —</b>	<b>95.4</b>

The Company recognized goodwill related to this acquisition of \$95.4 million. The goodwill recognized in this acquisition was attributable to the acquired assembled workforce, expanded market presence and enhanced business network, none of which qualify for recognition as a separate intangible asset. Centurion is reported within the Global Industrial Packaging segment to which the goodwill was assigned. The goodwill is expected to be deductible for tax purposes.

The fair value for acquired customer relationship intangibles was determined as of the acquisition date based on estimates and judgments regarding expectations for the future after-tax cash flows arising from the revenue from customer relationships that existed on the acquisition date over their estimated lives, including the probability of expected future contract renewals and revenue, less a contributory assets charge, all of which is discounted to present value. The fair values of the trademark intangible assets were determined utilizing the relief from royalty method, which is a form of the income approach. Under this method, a royalty rate based on observed market royalties is applied to projected revenue supporting the trademarks and discounted to present value using an appropriate discount rate.

Acquired intangible assets are being amortized over the estimated useful lives on a straight-line basis. The following table summarizes the preliminary purchase price allocation and weighted average remaining useful lives for identifiable intangible assets acquired as of the acquisition date:

(in millions)	Allocation	Purchase Price	Weighted Average
		Estimated Useful Life	Estimated Useful Life
Customer relationships	\$ 77.5	12.0	12.0
Favorable leases	1.6	19.0	19.0
Trademarks	13.7	5.0	5.0
<b>Total intangible assets</b>	<b>\$ 92.8</b>		

The Company has not yet finalized the determination of the fair value of assets acquired and liabilities assumed, including income taxes and contingencies. The Company expects to finalize these amounts within one year of the acquisition date. The estimate of fair value and purchase price allocation were based on information available at the time of closing the acquisition, and the Company continues to evaluate the underlying inputs and assumptions that are being used in fair value estimates. Accordingly, these preliminary estimates are subject to adjustments during the measurement period, not to exceed one year from the date of the acquisition, based upon new information obtained about facts and circumstances that existed as of the date of closing the acquisition.

Centurion's results of operations have been included in the Company's financial statements for the period subsequent to the acquisition date of March 31, 2023. Centurion contributed net sales of \$55.0 million for the year ended October 31, 2023.

### Lee Container Acquisition

The Company acquired Lee Container Corporation, Inc. ("Lee Container") on December 15, 2022 (the "Lee Container Acquisition"). Lee Container is an industry-leading manufacturer of high-performance barrier and conventional blow molded containers, jerrycans and small plastics. The total purchase price for this acquisition, net of cash acquired, was \$303.0 million. The Company incurred transaction costs of \$5.1 million to complete this acquisition.

The following table summarizes the consideration transferred to acquire Lee Container and the preliminary valuation of identifiable assets acquired and liabilities assumed at the acquisition date:

(in millions)		Amount Recognized as		
		Amounts Recognized as of the Acquisition Date	Measurement Period Adjustments	of Acquisition Date (as Adjusted)
<b>Fair value of consideration transferred</b>				
Cash consideration		\$ 302.8	\$ 0.2	\$ 303.0
<b>Recognized amounts of identifiable assets acquired and liabilities assumed</b>				
Accounts receivable		\$ 21.9	\$ (0.4)	\$ 21.5
Inventories		27.5	(5.2)	22.3
Prepaid and other current assets		0.5	—	0.5
Intangibles		133.5	—	133.5
Finance lease assets		32.4	1.0	33.4
Properties, plants and equipment		54.7	—	54.7
<b>Total assets acquired</b>		<b>270.5</b>	<b>(4.6)</b>	<b>265.9</b>
Accounts payable		(3.9)	—	(3.9)
Accrued payroll and employee benefits		(1.3)	—	(1.3)
Other current liabilities		(3.1)	2.9	(0.2)
Finance lease liabilities		(30.6)	(2.8)	(33.4)
<b>Total liabilities assumed</b>		<b>(38.9)</b>	<b>0.1</b>	<b>(38.8)</b>
<b>Total identifiable net assets</b>		<b>\$ 231.6</b>	<b>(4.5)</b>	<b>227.1</b>
<b>Goodwill</b>		<b>\$ 71.2</b>	<b>\$ 4.7</b>	<b>75.9</b>

The Company recognized goodwill related to this acquisition of \$75.9 million. The goodwill recognized in this acquisition was attributable to the acquired assembled workforce, expected synergies and economies of scale, none of which qualify for recognition as a separate intangible asset. Lee Container is reported within the Global Industrial Packaging segment to which the goodwill was assigned. The goodwill is expected to be deductible for tax purposes.

The cost approach was used to determine the fair value for building improvements and equipment. The cost approach measures the value by estimating the cost to acquire, or construct, comparable assets and adjusts for age and condition. The Company assigned building improvements a useful life ranging from 1 year to 9 years and equipment a useful life ranging from 1 year to 19 years. Acquired property, plant and equipment are being depreciated over their estimated remaining useful lives on a straight-line basis.

The fair value for acquired customer relationship intangibles was determined as of the acquisition date based on estimates and judgments regarding expectations for the future after-tax cash flows arising from the revenue from customer relationships that existed on the acquisition date over their estimated lives, including the probability of expected future contract renewals and revenue, less a contributory assets charge, all of which is discounted to present value. The fair values of the trademark intangible assets were determined utilizing the relief from royalty method, which is a form of the income approach. Under this method, a royalty rate based on observed market royalties is applied to projected revenue supporting the trademarks and discounted to present value using an appropriate discount rate.

Acquired intangible assets are being amortized over the estimated useful lives on a straight-line basis. The following table summarizes the preliminary purchase price allocation and weighted average remaining useful lives for identifiable intangible assets acquired as of the acquisition date:

(in millions)		Purchase Price	Weighted Average
		Allocation	Estimated Useful Life
Customer relationships		\$ 120.0	15.0
Trademarks		13.5	5.0
<b>Total intangible assets</b>		<b>\$ 133.5</b>	

The Company is still assessing inventory, among other things, and therefore has not yet finalized the determination of the fair value of assets acquired and liabilities assumed. The Company expects to finalize these amounts within one year of the acquisition date. The estimate of fair value and purchase price allocation were based on information available at the time of closing the acquisition, and the Company continues to evaluate the underlying inputs and assumptions that are being used in fair value estimates. Accordingly, these

preliminary estimates are subject to adjustments during the measurement period, not to exceed one year from the acquisition date, based upon new information obtained about facts and circumstances that existed as of the date of closing the acquisition.

Lee Container's results of operations have been included in the Company's financial statements for the period subsequent to the acquisition date of December 15, 2022. Lee Container contributed net sales of \$109.4 million for the year ended October 31, 2023.

#### Pro Forma Results

The following unaudited supplemental pro forma data presents consolidated information as if the ColePak Acquisition, Centurion Acquisition and Lee Container Acquisition had been completed on November 1, 2021. These amounts were calculated after adjusting ColePak's, Centurion's and Lee Container's results to reflect interest expense incurred on the debt to finance the acquisitions, additional depreciation and amortization that would have been charged assuming the fair value of property, plant and equipment and intangible assets had been applied from November 1, 2021, the adjusted tax expense, and related transaction costs.

(in millions, except per share amounts)	Twelve Months Ended October 31,	
	2023	2022
Pro forma net sales	\$ 5,276.5	\$ 6,607.6
Pro forma net income attributable to Greif, Inc.	361.0	380.5
<b>Basic earnings per share attributable to Greif, Inc. common shareholders:</b>		
Class A common stock	\$ 6.25	\$ 6.42
Class B common stock	\$ 9.36	\$ 9.62
<b>Diluted earnings per share attributable to Greif, Inc. common shareholders:</b>		
Class A common stock	\$ 6.18	\$ 6.36
Class B common stock	\$ 9.36	\$ 9.62

The unaudited supplemental pro forma financial information is based on the Company's preliminary assignment of purchase price and therefore subject to adjustment upon finalizing the purchase price assignment. The pro forma data should not be considered indicative of the results that would have occurred if the acquisition and related financing had been consummated on the assumed completion dates, nor are they indicative of future results.

#### Reliance Acquisition

The Company acquired Reliance Products, Ltd. ("Reliance") on October 1, 2023 (the "Reliance Acquisition"). Reliance is a leading producer of high-performance barrier and conventional blow molded jerrycans and small plastics containers in Canada. The total purchase price for this acquisition, net of cash acquired, was \$20.2 million. The Company recognized goodwill related to this acquisition of \$4.1 million and intangibles related to this acquisition of \$1.1 million.

#### Divestitures

##### Tama Divestiture

During the first quarter of 2023, the Company completed its divestiture of a U.S. business in the Paper Packaging & Services segment, Tama Paperboard, LLC (the "Tama Divestiture"), for current net cash proceeds of \$100.0 million. The Tama Divestiture did not qualify as discontinued operations as it did not represent a strategic shift that has had a major impact on the Company's operations or financial results. The Tama Divestiture resulted in a \$54.6 million gain on sale of business, including goodwill allocated to the sale of \$22.5 million.

#### NOTE 23 – GOODWILL AND OTHER INTANGIBLE ASSETS

The following table summarizes the changes in the carrying amount of goodwill by reportable segment for the years ended **October 31, 2022** **October 31, 2023** and **2021: 2022**:

(in millions)	(in millions)	Paper			(in millions)	Paper		
		Global Industrial	Packaging & Services	Total		Packaging (1)	Services	Total
<b>Balance at October 31, 2020</b>		\$ 750.5	\$ 767.9	\$ 1,518.4				
Goodwill allocated to divestitures and businesses held for sale		(0.4)	—	(0.4)				
Goodwill adjustments		(0.2)	—	(0.2)				
Currency translation		(2.6)	0.2	(2.4)				
<b>Balance at October 31, 2021</b>	<b>Balance at October 31, 2021</b>				<b>Balance at October 31, 2021</b>			
<b>2021</b>	<b>2021</b>	<b>\$ 747.3</b>	<b>\$ 768.1</b>	<b>\$ 1,515.4</b>	<b>2021</b>	<b>\$ 747.3</b>	<b>\$ 768.1</b>	<b>\$ 1,515.4</b>

Currency translation	Currency translation	(50.7)	(0.2)	(50.9)	Currency translation	(50.7)	(0.2)	(50.9)
<b>Balance at October 31, 2022</b>	<b>Balance at October 31, 2022</b>	\$ 696.6	\$ 767.9	\$ 1,464.5	<b>Balance at October 31, 2022</b>	\$ 696.6	\$ 767.9	\$ 1,464.5
Goodwill acquired					Goodwill acquired	175.4	60.1	235.5
Goodwill allocated to divestitures					Goodwill allocated to divestitures	—	(22.5)	(22.5)
Currency translation					Currency translation	15.6	(0.1)	15.5
<b>Balance at October 31, 2023</b>					<b>Balance at October 31, 2023</b>	\$ 887.6	\$ 805.4	\$ 1,693.0

(a)Accumulated goodwill impairment loss was \$63.3 million as of October 31, 2022 October 31, 2023, 2021 2022 and 2020, 2021, related to the Global Industrial Packaging reportable segment.

The Company reviews goodwill by reporting unit and indefinite-lived intangible assets for impairment as required by ASC 350, "Intangibles – Goodwill and Other," either annually on August 1, or whenever events and circumstances indicate impairment may have occurred. A reporting unit is the operating segment, or a business unit one level below that operating segment (the component level) if discrete financial information is prepared and regularly reviewed by segment management. The components are aggregated into reporting units for purposes of goodwill impairment testing to the extent they share similar qualitative and quantitative characteristics.

The Company performed its annual goodwill impairment test as of August 1, 2022 August 1, 2023. The fair value of the Company's Company's goodwill reporting units exceeded the carrying value, resulting in no impairment. Discount rates, and revenue growth rates and gross margins are the assumptions that are most sensitive and susceptible to change as they require significant management judgment. In addition, certain future events and circumstances, including deterioration of market conditions, higher cost of capital, a decline in actual and expected consumption and demand, could result in changes to these assumptions and judgments. A revision of these assumptions could cause the fair value of the reporting unit to fall below its respective carrying value. As for all of the Company's Company's reporting units, if in future years, the reporting unit's unit's actual results are not consistent with the Company's Company's estimates and assumptions used to calculate fair value, the Company may be required to recognize material impairments to goodwill.

The following table summarizes the carrying amount of net intangible assets by class as of October 31, 2022 October 31, 2023 and 2021:2022:

(in millions)	(in millions)	Gross Intangible Assets	Accumulated Amortization	Net Intangible Assets	(in millions)	Gross Intangible Assets	Accumulated Amortization	Net Intangible Assets
<b>October 31, 2022:</b>								
<b>October 31, 2023:</b>								
Indefinite lived: Indefinite lived:								
Trademarks and patents	\$ 7.9	\$ —	\$ 7.9		Trademarks and trade names	\$ 7.9	\$ —	\$ 7.9
Trademarks and trade names					Trademarks and trade names	\$ 7.9	\$ —	\$ 7.9
Definite lived: Definite lived:					Definite lived:			
Customer relationships	834.5	270.0	564.5		Customer relationships	1,031.1	283.2	747.9
Trademarks and patents	8.3	4.6	3.7					
Non-compete agreements	0.4	0.4	—					
Trademarks and trade names					Trademarks and trade names	44.3	9.6	34.7
Other	0.3	0.2	0.1		Other	2.1	0.4	1.7
<b>Total</b>	<b>Total</b>	<b>\$ 851.4</b>	<b>\$ 275.2</b>	<b>\$ 576.2</b>	<b>Total</b>	<b>\$ 1,085.4</b>	<b>\$ 293.2</b>	<b>\$ 792.2</b>
<b>October 31, 2021:</b>								
<b>October 31, 2022:</b>								
Indefinite lived: Indefinite lived:								
Trademarks and patents	\$ 13.4	\$ —	\$ 13.4		Indefinite lived:			

Trademarks and trade names			Trademarks and trade names		
Definite lived:	Definite lived:		Definite lived:		
Customer relationships	Customer relationships	887.0	259.4	627.6	
Trademarks and patents		27.3	20.8	6.5	
Non-compete agreements		0.7	0.6	0.1	
Trademarks and trade names			Trademarks and trade names		
Other	Other	1.8	1.0	0.8	
Total	Total	\$ 930.2	\$ 281.8	\$ 648.4	
					Total \$ 851.4 \$ 275.2 \$ 576.2

Gross intangible assets decreased increased by \$78.8 million \$234.0 million for the year ended October 31, 2022 October 31, 2023. The decrease increase was attributable to \$286.4 million additional assets from acquisition and \$1.9 million of currency fluctuations, which was offset by the write-off of \$59.6 \$54.3 million fully-amortized assets, \$11.6 million of currency fluctuations, \$4.6 million impairment of indefinite lived intangibles and \$3.0 million of asset disposals, fully amortized assets.

Amortization expense was \$58.2 million \$71.9 million, \$66.9 million \$58.2 million and \$69.1 million \$66.9 million for the years ended October 31, 2022 October 31, 2023, 2021 2022 and 2020 2021, respectively. Amortization expense for the next five years is expected to be \$55.4 million in 2023, \$52.2 million \$77.3 million in 2024, \$50.2 million \$75.4 million in 2025, \$50.1 million \$75.2 million in 2026, \$75.1 million in 2027 and \$49.9 million \$70.5 million in 2027 2028.

Definite lived intangible assets for the periods presented are subject to amortization and are being amortized using the straight-line method over periods that are contractually or legally determined, or over the period a market participant would benefit from the asset. Indefinite lived intangibles of approximately \$7.9 million as of October 31, 2022 October 31, 2023, related primarily to the Tri-Sure trademark and trade names related to Box Board and Pachmas, are not amortized, but rather are tested for impairment at least annually.

#### NOTE 34 – RESTRUCTURING CHARGES

The following is a reconciliation of the beginning and ending restructuring reserve balances for the years ended October 31, 2022 October 31, 2023 and 2021: 2022:

(in millions)	(in millions)	Employee Separation			(in millions)	Employee Separation			(in millions)
		Costs	Other Costs	Total		Costs	Other Costs	Total	
Balance at October 31, 2020		\$ 17.9	\$ 3.7	\$ 21.6					
Costs incurred and charged to expense		14.9	8.2	23.1					
Costs paid or otherwise settled		(14.2)	(10.2)	(24.4)					
Balance at October 31, 2021	Balance at October 31, 2021	\$ 18.6	\$ 1.7	\$ 20.3	Balance at October 31, 2021	\$ 18.6	\$ 1.7	\$ 20.3	
Costs incurred and charged to expense	Costs incurred and charged to expense	6.3	6.7	13.0	Costs incurred and charged to expense	6.3	6.7	13.0	
Costs paid or otherwise settled	Costs paid or otherwise settled	(13.7)	(7.3)	(21.0)	Costs paid or otherwise settled	(13.7)	(7.3)	(21.0)	
Balance at October 31, 2022	Balance at October 31, 2022	\$ 11.2	\$ 1.1	\$ 12.3	Balance at October 31, 2022	\$ 11.2	\$ 1.1	\$ 12.3	
Costs incurred and charged to expense					Costs incurred and charged to expense	11.8	6.9	18.7	

Costs paid or otherwise settled	Costs paid or otherwise settled			
Balance at October 31, 2023	(6.6)	(7.6)	(14.2)	
	Balance at October 31, 2023	\$ 16.4	\$ 0.4	\$ 16.8

The focus for restructuring activities in 2023 was to optimize and integrate operations and close underperforming plants in the Paper Packaging & Services reportable segment and to optimize and rationalize operations in the Global Industrial Packaging reportable segment. During the year ended October 31, 2023, the Company recorded restructuring charges of \$18.7 million, as compared to \$13.0 million of restructuring charges recorded during the year ended October 31, 2022. The restructuring activity for the year ended October 31, 2023 consisted of \$11.8 million in employee separation costs and \$6.9 million in other restructuring costs, primarily consisting of professional fees and other fees associated with restructuring activities. There were nine plants closed or divested in 2023 and a total of 456 employees severed throughout 2023 as part of the Company's restructuring efforts.

The focus for restructuring activities in 2022 was to optimize and integrate operations in the Paper Packaging & Services reportable segment and to rationalize operations and close underperforming assets in the Global Industrial Packaging reportable segment. During the year ended October 31, 2022, the Company recorded restructuring charges of \$13.0 million, as compared to \$23.1 million of restructuring charges recorded during the year ended October 31, 2021. The restructuring activity for the year ended October 31, 2022 consisted of \$6.3 million in employee separation costs and \$6.7 million in other restructuring costs, primarily consisting of professional fees and other fees associated with restructuring activities. There were seventeen plants closed or divested in 2022 and a total of 132 employees severed throughout 2022 as part of the Company's restructuring efforts.

The focus for restructuring activities in 2021 was to optimize and integrate operations in the Paper Packaging & Services reportable segment and to rationalize operations and close underperforming assets in the Global Industrial Packaging reportable segment. During 2021, the Company recorded restructuring charges of \$23.1 million, consisting of \$14.9 million in employee separation costs and \$8.2 million in other restructuring costs, primarily consisting of professional fees and other fees incurred for services specifically associated with restructuring activities, employee separation and relocation. There were five plants closed or divested in 2021 and a total of 177 employees severed throughout 2021 as part of the Company's restructuring efforts.

The focus for restructuring activities in 2020 was to optimize and integrate operations in the Paper Packaging & Services reportable segment related to the acquisition of Caraustar Industries, Inc. and its subsidiaries ("Caraustar") on February 11, 2019 (the "Caraustar Acquisition"), and continue to rationalize operations and close underperforming assets in the Global Industrial Packaging segments. During 2020, the Company recorded restructuring charges of \$38.7 million, consisting of \$26.4 million in employee separation costs and \$12.3 million in other restructuring costs, primarily consisting of professional fees incurred for services specifically associated with employee separation and relocation. There were sixteen plants closed or divested and a total of 658 employees severed throughout 2020 as part of the Company's restructuring efforts.

The following is a reconciliation of the total amounts expected to be incurred from open restructuring plans or plans that are being formulated and have not been announced as of the filing date of this Form 10-K. Remaining amounts expected to be incurred were \$7.4 million \$12.0 million as of October 31, 2022 October 31, 2023:

(in millions)	Total Amounts		Amounts Remaining to be Incurred	
	Expected to be Incurred	Amounts Incurred During the year ended October 31, 2022		
<b>Global Industrial Packaging:</b>				
Employee separation costs	\$ 8.4	\$ 4.9		3.5
Other restructuring costs	5.9	4.2		1.7
	<u>14.3</u>	<u>9.1</u>		<u>5.2</u>
<b>Paper Packaging &amp; Services:</b>				
Employee separation costs	2.4	1.4		1.0
Other restructuring costs	3.7	2.5		1.2
	<u>6.1</u>	<u>3.9</u>		<u>2.2</u>
<b>Total</b>	<b>\$ 20.4</b>	<b>\$ 13.0</b>		<b>7.4</b>

#### NOTE 4 – CONSOLIDATION OF VARIABLE INTEREST ENTITIES

##### **Flexible Packaging Joint Venture**

On September 29, 2010, Greif, Inc. and one of its indirect subsidiaries formed a joint venture (referred to herein as the "Flexible Packaging JV" or "FPS VIE") with Dabbagh Group Holding Company Limited and one of its subsidiaries, originally National Scientific Company Limited and later Gulf Refined Packaging for Industrial Packaging Company LTD ("GRP"). The Flexible Packaging JV owned the operations in the Company's flexible packaging business, which was included in Global Industrial Packaging reportable segment. The Flexible Packaging JV was consolidated into the operations of the Company from the date of its formation until the date of its divestiture, as described below.

On January 3, 2022, the Company entered into a definitive agreement to divest its approximately 50 percent equity interest in the Flexible Packaging JV (the "FPS Divestiture"). On April 1, 2022, the Company completed the FPS Divestiture for \$123.0 million. As a result of the FPS Divestiture, the Company received net cash proceeds of \$131.6 million, including \$24.4 million of cash and cash equivalents resulting from the deconsolidation of the Flexible Packaging JV. The FPS Divestiture resulted in a loss of \$0.6 million on sale of business.

The Flexible Packaging JV was deemed to be a VIE since the total equity investment at risk was not sufficient to permit the legal entity to finance its activities without additional subordinated financial support. The major factors that led to the conclusion that the Company was the primary beneficiary of this VIE was that (1) the Company had the power to direct the most significant activities due to its ability to direct the operating decisions of the FPS VIE, which power was derived from the significant CEO discretion over the operations of the FPS VIE combined with the Company's sole and exclusive right to appoint the CEO of the FPS VIE, and (2) the significant variable interest through the Company's equity interest in the FPS VIE.

The economic and business purpose underlying the Flexible Packaging JV was to establish a global industrial flexible products enterprise through a series of targeted acquisitions and major investments in plant, machinery and equipment. All entities contributed to the Flexible Packaging JV were existing businesses acquired by an indirect subsidiary of the Company and that were reorganized under Greif Flexibles Asset Holding B.V. and Greif Flexibles Trading Holding B.V. ("Asset Co." and "Trading Co."), respectively. The Company had a 51 percent ownership in Trading Co. and a 49 percent ownership in Asset Co. However, the Company and GRP had equal economic interests in the Flexible Packaging JV, notwithstanding the actual ownership interests in the various legal entities.

#### Paper Packaging Joint Venture

On April 20, 2018, Greif, Inc. and one of its indirect subsidiaries formed a joint venture (referred to herein as the "Paper Packaging JV" or "PPS VIE") with a third party. The Paper Packaging JV has been consolidated into the operations of the Company since its formation date of April 20, 2018.

The Paper Packaging JV is deemed to be a VIE as the equity investors at risk, as a group, lack the characteristics of a controlling financial interest. The structure of the Paper Packaging JV has governing provisions that are the functional equivalent of a limited partnership whereby the Company is the managing member that makes all the decisions related to the

(in millions)	Total Amounts Expected to be Incurred	Amounts Incurred During the year ended October 31, 2023		Amounts Remaining to be Incurred
<b>Global Industrial Packaging:</b>				
Employee separation costs	\$ 8.8	\$ 3.0		5.8
Other restructuring costs	2.5	1.2		1.3
	<u>11.3</u>	<u>4.2</u>		<u>7.1</u>
<b>Paper Packaging &amp; Services:</b>				
Employee separation costs	10.2	8.8		1.4
Other restructuring costs	9.2	5.7		3.5
	<u>19.4</u>	<u>14.5</u>		<u>4.9</u>
<b>Total</b>	<b>\$ 30.7</b>	<b>\$ 18.7</b>		<b>\$ 12.0</b>

activities that most significantly affect the economic performance of the PPS VIE. In addition, the third party does not have any substantive kick-out rights or substantive participating rights in the Paper Packaging JV. The major factors that led to the conclusion that the Paper Packaging JV is a VIE was that all limited partnerships are considered to be VIE's unless the limited partners have substantive kick-out rights or substantive participating rights.

The following table presents the Paper Packaging JV total net assets:

(in millions)		October 31,	
		2022	2021
Cash and cash equivalents		\$ 6.7	\$ 5.9
Trade accounts receivable, less allowance of \$0.0 in 2022 and \$0.0 in 2021		7.0	9.4
Inventories		11.8	10.8
Properties, plants and equipment, net		27.8	31.1
Other assets		—	0.5
<b>Total assets</b>		<b>\$ 53.3</b>	<b>\$ 57.7</b>
Accounts payable		3.3	3.4
Other liabilities		2.4	1.7
<b>Total liabilities</b>		<b>\$ 5.7</b>	<b>\$ 5.1</b>

Net (loss) income attributable to the noncontrolling interest in the Paper Packaging JV for the years ended October 31, 2022, 2021 and 2020 were \$(0.4) million, \$0.5 million and \$(1.8) million, respectively.

#### Non-United States Accounts Receivable VIE

As further described in Note 5 of the Notes to Consolidated Financial Statements, Cooperage Receivables Finance B.V. is a party to the Nieuw Amsterdam Receivables Financing Agreement (the "European RFA"). Cooperage Receivables Finance B.V. is deemed to be a VIE since this entity is not able to satisfy its liabilities without the financial support from the Company. While this entity is a separate and distinct legal entity from the Company and no ownership interest in this entity is held by the Company, the Company is the primary beneficiary because it has (1) the power to direct the activities of the VIE that most significantly impact the VIE's economic performance, and (2) the obligation to absorb losses of the VIE that could potentially be significant to the VIE. As a result, Cooperage Receivables Finance B.V. has been consolidated into the operations of the Company.

#### NOTE 5 – LONG-TERM DEBT

Long-term debt is summarized as follows:

(in millions)	(in millions)	October 31, 2022	October 31, 2021	(in millions)	October 31, 2023	October 31, 2022
2022 Credit Agreement - Term Loans	2022 Credit Agreement - Term Loans	\$ 1,565.0	\$ —	2022 Credit Agreement - Term Loans	\$ 1,493.8	\$ 1,565.0
2019 Credit Agreement - Term Loans	—	—	1,247.3	—	—	—
Senior Notes due 2027	—	—	495.9	—	—	—
2023 Credit Agreement - Term Loans	—	—	—	2023 Credit Agreement - Term Loans	296.3	—
Accounts receivable credit facilities	Accounts receivable credit facilities	311.4	391.1	Accounts receivable credit facilities	351.0	311.4
2022 Credit Agreement - Revolving Credit Facility	2022 Credit Agreement - Revolving Credit Facility	41.9	—	2022 Credit Agreement - Revolving Credit Facility	77.3	41.9
2019 Credit Agreement - Revolving Credit Facility	—	—	50.5	—	—	—
Other debt	Other debt	0.4	0.6	Other debt	—	0.4
		1,918.7	2,185.4		2,218.4	1,918.7
Less current portion	Less current portion	71.1	120.3	Less current portion	88.3	71.1
Less deferred financing costs	Less deferred financing costs	8.3	10.3	Less deferred financing costs	8.7	8.3
Long-term debt, net	Long-term debt, net	\$ 1,839.3	\$ 2,054.8	Long-term debt, net	\$ 2,121.4	\$ 1,839.3

#### Credit Agreements

##### 2022 Credit Agreement

On March 1, 2022, the Company and certain of its subsidiaries entered into a second amended and restated senior secured credit agreement (the "2022 Credit Agreement") with a syndicate of financial institutions. The 2022 Credit Agreement amended, restated and replaced in its entirety the Company's previous credit agreement, referred to as the "2019 Credit Agreement".

The 2022 Credit Agreement provides for (a) an \$800.0 million secured revolving credit facility, consisting of a \$725.0 million multicurrency facility and a \$75.0 million U.S. dollar facility, maturing on March 1, 2027, (b) a \$1,100.0 million secured term loan A-1 facility with quarterly principal installments commencing on July 31, 2022 and continuing through January 31, 2027, with any outstanding principal balance of such term loan A-1 facility being due and payable on maturity on March 1, 2027, and (c) a \$515.0 million secured term loan A-2 facility with quarterly principal installments commencing on July 31, 2022 and continuing through January 31, 2027, with any outstanding principal balance of such term loan A-2 being due and payable on March 1, 2027. The term loan A-2 facility reflects the combination of the outstanding balances of the secured term A-2 and A-3 loans under the 2019 Credit Agreement.

The Company used the borrowings under the 2022 Credit Agreement on March 1, 2022, to redeem the \$500.0 million of 6.5% Senior Notes due March 1, 2027 (the "Senior Notes due 2027"), and to repay and refinance all of the outstanding borrowings under the 2019 Credit Agreement, and will use the borrowings thereunder to fund ongoing working capital and capital expenditure needs and for general corporate purposes, including acquisitions, and to pay related fees and expenses. Interest is based on Secured Overnight Financing

Rate ("SOFR") plus a credit spread adjustment, Euro Interbank Offer Rate ("EURIBOR") or a base rate that resets periodically plus, in each case, a calculated margin amount that is based on the Company's leverage ratio. Subject to the terms of the 2022 Credit Agreement, the Company has an option to borrow additional funds under the 2022 Credit Agreement with the agreement of the lenders.

Interest is based on Secured Overnight Financing Rate ("SOFR") plus a credit spread adjustment or a base rate that resets periodically plus, in each case, a calculated margin amount that is based on the Company's leverage ratio.

On May 17, 2023, the Company and Greif Packing LLC, a direct wholly owned subsidiary of Greif, Inc. ("Greif Packaging"), entered into a \$300.0 million senior secured credit agreement (the "2023 Credit Agreement" and, together with the 2022 Credit Agreement, the "2022 and 2023 Credit Agreements") with CoBank, ACB ("CoBank"), which acted as a lender and is acting as administrative agent of the 2023 Credit Agreement. The 2023 Credit Agreement is permitted incremental equivalent debt under the terms of the 2022 Credit Agreement. The 2023 Credit Agreement provides for a \$300.0 million secured term loan facility with quarterly principal installments commencing on July 31, 2023 and continuing through January 31, 2028, with any outstanding principal balance of such term loan being due and payable on maturity on May 17, 2028. The Company used the borrowing under the 2023 Credit Agreement to repay and refinance a portion of the outstanding borrowings under the 2022 Credit Agreement.

Interest accruing under the 2023 Credit Agreement is based on SOFR plus a credit spread adjustment or a base rate that resets periodically plus, in each case, a calculated margin amount that is based on the Company's leverage ratio.

As of **October 31, 2022** **October 31, 2023**, **\$1,606.9** **\$1,867.4** million was outstanding under the 2022 and 2023 Credit Agreement Agreements. The current portion was **\$71.1** **\$88.3** million, and the long-term portion was **\$1,535.8** **\$1,779.1** million. The weighted average interest rate for borrowings under the 2022 and 2023 Credit Agreement Agreements was **2.39%** **5.81%** for the year ended **October 31, 2022** **October 31, 2023**. The actual interest rate for borrowings under the 2022 and 2023 Credit Agreement Agreements was **4.98%** **6.65%** as of **October 31, 2022** **October 31, 2023**. The deferred financing costs associated with the term loan portion of the 2022 and 2023 Credit Agreement Agreements totaled **\$8.3** **\$8.5** million as of **October 31, 2022** **October 31, 2023** and are recorded as a reduction of long-term debt on the consolidated balance sheets. The deferred financing costs associated with the revolving portion of the 2022 Credit Agreement totaled **\$3.7** **\$3.5** million as of **October 31, 2022** **October 31, 2023** and are recorded within other long-term assets on the consolidated balance sheets.

As a result of the refinancing, \$0.7 million of unamortized deferred financing costs related to the 2019 Credit Agreement, and \$2.8 million of newly incurred financing costs related to the 2022 Credit Agreement, were expensed as debt extinguishment charges in the consolidated statements of income.

#### Senior Notes due 2027

On March 1, 2022, the Company redeemed all of its outstanding Senior Notes due 2027, which were issued by the Company on February 11, 2019, for \$500.0 million. The total redemption price for the Senior Notes due 2027 was \$516.3 million, which was equal to the aggregate principal payment outstanding of \$500.0 million plus a call premium of \$16.3 million. The premium was recognized as a debt extinguishment charges on the consolidated statements of income. The payment of the redemption price was funded by borrowings under the 2022 Credit Agreement.

As a result of redeeming the Senior Notes due 2027, \$1.8 million of unamortized deferred financing costs and \$3.8 million of unamortized discount were expensed as debt extinguishment charges on the consolidated statements of income.

#### United States Trade Accounts Receivable Credit Facility

On September 24, 2019, certain U.S. subsidiaries of Greif, Inc. amended and restated the existing receivables financing facility (the "U.S. Receivables Facility" "RFA"). Greif Receivables Funding LLC ("Greif Funding"), Greif Packaging LLC, ("Greif Packaging") for itself and as servicer, and certain other U.S. subsidiaries of the Company entered into a Third Amended and Restated Transfer and Administration Agreement, dated as of September 24, 2019 (the "Third Amended TAA"), with Bank of America, N.A., as the agent, managing agent, administrator and committed investor, and various investor groups, managing agents and administrators, from time to time parties thereto. On **May 17, 2022** **May 17, 2023**, the Third Amended TAA was amended with a new maturity date of **May 17, 2023** **May 17, 2024** and provides an accounts receivables facility of \$300.0 million.

Greif Funding is a direct subsidiary of Greif Packaging and is included in the Company's consolidated financial statements. However, because Greif Funding is a separate and distinct legal entity from the Company, the assets of Greif Funding are not available to satisfy the liabilities and obligations of the Company, Greif Packaging or other subsidiaries of the Company, and the liabilities of Greif Funding are not the liabilities or obligations of the Company or its other subsidiaries.

The U.S. Receivables Facility RFA is secured by certain trade accounts receivables related to the Global Industrial Packaging and the Paper Packaging & Services businesses of Greif Packaging and other subsidiaries of the Company in the United States and bears interest at a variable rate based on the London InterBank Offered Rate or an applicable base rate, plus a margin, or a commercial paper rate, all as provided in the Third Amended TAA. Interest is payable on a monthly basis and the principal balance is payable upon termination of the U.S. Receivables Facility RFA. The **\$215.0 million** **\$270.9 million** outstanding balance under the U.S. Receivables Facility RFA as of **October 31, 2022** **October 31, 2023** is reported as long-term debt in the consolidated balance sheets because the Company intends to refinance this obligation on a long-term basis and has the intent and ability to consummate a long-term refinancing.

#### International Trade Accounts Receivable Credit Facilities

On **April 20, 2022** **April 14, 2023**, Cooperage Receivables Finance B.V. and Greif Services Belgium BV, an indirect wholly owned subsidiary of Greif, Inc., amended and restated the Nieuw Amsterdam Receivables Financing Agreement (the "European RFA" "European RFA") with affiliates of a major international bank. The amended and restated European RFA matures **April 24, 2023** **April 24, 2024**. The European RFA provides an accounts receivable financing facility of up to €100.0 million (\$99.6 105.7 million as of **October 31, 2022** **October 31, 2023**) secured by certain European accounts receivable. The **\$96.4** **\$80.1** million outstanding on the European RFA as of **October 31, 2022** **October 31, 2023** is reported as long-term debt on the consolidated balance sheets because the Company intends to refinance these obligations on a long-term basis and has the intent and ability to consummate a long-term refinancing.

#### Short-Term Borrowings Other

The Company had short-term borrowings of **\$5.7 million** **\$5.4 million** and **\$50.5 million** **\$5.7 million** as of **October 31, 2022** **October 31, 2023** and **2021**, 2022, respectively. There are no financial covenants associated with this other debt.

As of **October 31, 2022** **October 31, 2023**, annual scheduled payments and maturities, including the current portion of long-term debt, were **\$424.8 million** in **2023**, **\$80.8 million** **\$516.6 million** in **2024**, **\$80.8 million** **\$88.3 million** in **2025**, **\$80.8 million** **\$88.3 million** in **2026**, **\$1,251.5 million** **\$1,258.9 million** in **2027**, **\$266.3 million** in **2028** and zero thereafter.

## **NOTE 6 – FINANCIAL INSTRUMENTS AND FAIR VALUE MEASUREMENTS**

### **Recurring Fair Value Measurements**

The following table presents the fair value of those assets and (liabilities) measured on a recurring basis as of **October 31, 2022** **October 31, 2023** and **2021**: **2022**:

(in millions)	October 31, 2022								October 31, 2023															
	Assets				Liabilities				Assets				Liabilities											
	(in millions)	Level 1	Level 2	Level 3	Total	Level 1	Level 2	Level 3	Total	(in millions)	Level 1	Level 2	Level 3	Total	Level 1	Level 2	Level 3	Total						
Interest rate derivatives	Interest rate derivatives	\$ —	\$ 72.1	\$ —	\$ 72.1	\$ —	\$ (1.0)	\$ —	\$ (1.0)	Interest rate derivatives	\$ —	\$ 78.4	\$ —	\$ 78.4	\$ —	\$ —	\$ —	\$ —	\$ —					
Foreign exchange hedges	Foreign exchange hedges	—	—	—	—	—	(0.2)	—	(0.2)	Foreign exchange hedges	—	0.1	—	0.1	—	(0.1)	—	(0.1)	—	—	—	—	—	
Insurance annuity	Insurance annuity	—	—	17.8	17.8	—	—	—	—	Insurance annuity	—	—	18.8	18.8	—	—	—	—	—	—	—	—	—	
Cross currency swap	Cross currency swap	—	46.8	—	46.8	—	—	—	—	Cross currency swap	—	18.9	—	18.9	—	—	—	—	—	—	—	—	—	
October 31, 2021										October 31, 2022														
(in millions)	Assets								Liabilities															
	(in millions)	Level 1	Level 2	Level 3	Total	Level 1	Level 2	Level 3	Total	(in millions)	Level 1	Level 2	Level 3	Total	Level 1	Level 2	Level 3	Total						
Interest rate derivatives	Interest rate derivatives	\$ —	\$ 7.6	\$ —	\$ 7.6	\$ —	\$ (16.8)	\$ —	\$ (16.8)	Interest rate derivatives	\$ —	\$ 72.1	\$ —	\$ 72.1	\$ —	\$ (1.0)	\$ —	\$ (1.0)	\$ —	\$ —				
Foreign exchange hedges	Foreign exchange hedges	—	0.1	—	0.1	—	(0.1)	—	(0.1)	Foreign exchange hedges	—	—	—	—	—	(0.2)	—	(0.2)	—	—	—	—	—	—
Insurance annuity	Insurance annuity	—	—	20.9	20.9	—	—	—	—	Insurance annuity	—	—	17.8	17.8	—	—	—	—	—	—	—	—	—	—
Cross currency swap	Cross currency swap	—	10.2	—	10.2	—	(1.2)	—	(1.2)	Cross currency swap	—	46.8	—	46.8	—	—	—	—	—	—	—	—	—	—

The carrying amounts of cash and cash equivalents, trade accounts receivable, accounts payable, current liabilities and short-term borrowings as of **October 31, 2022** **October 31, 2023** and **2021** **2022** approximate their fair values because of the short-term nature of these items and are not included in this table.

### **Interest Rate Derivatives**

As of **October 31, 2022** **October 31, 2023**, the Company has various interest rate swaps with a total notional amount of **\$1,150.0 million** **\$1,300.0 million**, maturing between March 11, 2024 and **July 15, 2029** **July 16, 2029**. The Company will receive variable rate interest payments based upon one-month U.S. dollar SOFR, and in return the Company will be obligated to pay interest at a weighted average fixed interest rate of **2.50%** **2.62%**. This effectively will convert the borrowing rate on an amount of debt equal to the notional amount of the interest rate swaps from a variable rate to a fixed rate.

The Company is actively monitoring the interest rate market and **will** **may** execute new interest rate swaps as appropriate. Subsequent to **October 31, 2022** **October 31, 2023**, the Company entered into **\$100.0 million** of additional interest rate swaps, with a total notional of **\$250.0 million**, maturing **March 1, 2028** between November 3, 2028 and December 15, 2028. The Company will receive variable rate interest payments based upon one-month U.S. dollar SOFR, and in return the Company will be obligated to pay interest at a weighted average fixed interest rate of **4.20%**. This effectively will convert the borrowing rate on an amount of debt equal to the notional amount of the interest rate swaps from a variable rate to a fixed rate.

These derivatives are designated as cash flow hedges for accounting purposes. Accordingly, the gain or loss on these derivative instruments are reported as a component of other comprehensive income and reclassified into earnings in the same line item associated with the forecasted transaction and in the same period during which the hedged transaction affects earnings. See Note 14 herein for additional disclosures of the aggregate gain or loss included within other comprehensive income. The assumptions used in measuring fair value of these interest rate derivatives are considered level 2 inputs, which are based upon observable market rates, including SOFR and interest paid based upon a designated fixed rate over the life of the swap agreements.

**Losses** Gains (losses) reclassified to earnings under these contracts were \$8.4 million \$28.5 million, \$18.1 million \$(8.4) million and \$16.5 million \$(18.1) million for the years ended October 31, 2022 October 31, 2023, 2021 2022 and 2020 2021. A derivative gain of \$26.1 million \$31.9 million, based upon interest rates at October 31, 2022 October 31, 2023, is expected to be reclassified from accumulated other comprehensive income (loss) to earnings in the next twelve months.

#### Foreign Exchange Hedges

The Company conducts business in various international currencies and is subject to risks associated with changing foreign exchange rates. The Company's objective is to reduce volatility associated with foreign exchange rate changes. Accordingly, the Company enters into various contracts that change in value as foreign exchange rates change to protect the value of certain existing foreign currency assets and liabilities, commitments and anticipated foreign currency cash flows. As of October 31, 2022 October 31, 2023, the Company had outstanding foreign currency forward contracts in the notional amount of \$132.1 million \$66.0 million (\$81.8 132.1 million as of October 31, 2021 October 31, 2022).

The Company is actively monitoring the foreign exchange hedges market and may execute new foreign currency forward contracts as appropriate. Subsequent to October 31, 2023, the Company entered into \$268.0 million of additional forward contracts maturing February 29, 2024.

Adjustments to fair value are recognized in earnings, offsetting the impact of the hedged profits. The assumptions used in measuring fair value of foreign exchange hedges are considered level 2 inputs, which were based on observable market pricing for similar instruments, principally foreign exchange futures contracts.

Realized gains (losses) recorded in other expense, net under fair value contracts were \$1.2 million, \$(6.2) million \$0.4 million and \$(3.2) million \$0.4 million for the years ended October 31, 2022 October 31, 2023, 2021 2022 and 2020 2021, respectively. Unrealized net loss gains (losses) recognized by the Company in other expense, net was \$0.2 were zero, \$(0.2) million zero and \$0.1 million zero for the years ended October 31, 2022 October 31, 2023, 2021 2022 and 2020 2021, respectively.

#### Cross Currency Swap

As of October 31, 2022 October 31, 2023, the Company has various cross currency interest rate swaps that synthetically swap \$334.4 \$319.3 million of fixed rate debt to Euro denominated fixed rate debt. The Company receives a weighted average rate of 1.56% 1.39% on these swaps. These agreements are designated as either net investment hedges or cash flow hedges for accounting purposes and will mature between March 6, 2023 March 2, 2024 and October 5, 2026.

The Company is actively monitoring the cross currency interest rate swap market and may execute new cross currency interest rate swaps as appropriate. Subsequent to October 31, 2023, the Company entered into additional cross currency interest rate swaps maturing November 3, 2028 that synthetically swap \$213.2 million of fixed rate debt to Euro denominated fixed rate debt. The Company receives a weighted average rate of 1.31% on these swaps.

The gain or loss on the net investment hedge derivative instruments is included in the foreign currency translation component of other comprehensive income until the net investment is sold, diluted, or liquidated. See Note 14 herein for additional disclosure disclosures of the aggregate gain or loss included within other comprehensive income. The gain or loss on the cash flow hedge derivative instruments is included in the unrealized foreign exchange component of other expense, offset by the underlying gain or loss on the underlying cash flows that are being hedged. Interest payments received for the cross currency swap are excluded from the net investment hedge effectiveness assessment and are recorded in interest expense, net on the consolidated statements of income. The assumptions used in measuring fair value of the cross currency swap are considered level 2 inputs, which are based upon the Euro to United States dollar exchange rate market.

For the years ended October 31, 2022 October 31, 2023, 2021 2022 and 2020, 2021, gains recorded in interest expense, net under the cross currency swap agreements were \$5.8 million \$5.1 million, \$2.2 million \$5.8 million and \$2.4 million, \$2.2 million, respectively.

#### Other Financial Instruments

The fair values of the Company's 2022 Credit Agreement, the 2023 Credit Agreement, the U.S. Receivables Facility RFA and the European RFA do not materially differ from carrying value as the Company's cost of borrowing is variable and approximates current borrowing rates. The fair values of the Company's long-term obligations are estimated based on either the quoted market prices for the same or similar issues or the current interest rates offered for the debt of the same remaining maturities, which are considered level 2 inputs in accordance with ASC Topic 820, "Fair Value Measurements and Disclosures."

#### Pension Plan Assets

On an annual basis the Company compares the asset holdings of its pension plan to targets it previously established. The pension plan assets are categorized as equity securities, debt securities, fixed income securities, insurance annuities or other assets, which are considered level 1, level 2 and level 3 fair value measurements. The typical asset holdings include:

- Common stock: Valued based on quoted prices and are primarily exchange-traded.

- Mutual funds: Valued at the Net Asset Value ("NAV") available daily in an observable market.
- Common collective trusts: Unit value calculated based on the observable NAV of the underlying investment.
- Pooled separate accounts: Unit value calculated based on the observable NAV of the underlying investment.
- Government and corporate debt securities: Valued based on readily available inputs such as yield or price of bonds of comparable quality, coupon, maturity and type.
- Insurance annuity: Value is derived based on the value of the corresponding liability.

#### Non-Recurring Fair Value Measurements

The Company recognized asset impairment charges of \$71.0 million and \$8.9 million for the years ended October 31, 2022 and 2021.

The following table presents quantitative information about the significant unobservable inputs used to determine the fair value of the impairment of long-lived assets held and used and net assets held for sale for the twelve months ended October 31, 2022 and 2021:

(in millions)	Quantitative Information about Level 3 Fair Value Measurements			
	Fair Value of Impairment	Valuation Technique	Unobservable Input	Range of Input Values
<b>October 31, 2022</b>				
Impairment of Net Assets Held for Sale	\$ 62.4	Indicative Bids	Indicative Bids	N/A
Impairment of Long Lived Assets	\$ 8.6	Discounted Cash Flows, Indicative Bids	Discounted Cash Flows, Indicative Bids	N/A
<b>Total</b>	<b>\$ 71.0</b>			
<b>October 31, 2021</b>				
Impairment of Net Assets Held for Sale	\$ 1.0	Indicative Bids	Indicative Bids	N/A
Impairment of Long Lived Assets	\$ 7.9	Discounted Cash Flows, Indicative Bids	Discounted Cash Flows, Indicative Bids	N/A
<b>Total</b>	<b>\$ 8.9</b>			

#### Long-Lived Assets and Assets and Liabilities Held for Sale

On January 3, 2022, the Company entered into a definitive agreement to divest approximately 50% equity interest in the Flexible Products & Services business. This agreement triggered the reclassification of the Flexible Products & Services business to assets and liabilities held for sale, which further resulted in recognized impairment charges of \$62.4 million in the first quarter of 2022. See Note 4 herein for additional disclosures of the FPS Divestiture. During the year ended October 31,

2022, the Company wrote off long-lived assets with a carrying value of \$4.0 million, resulting in recognized asset impairment charges of \$4.0 million. These charges include \$2.3 million related to properties, plants and equipment, net, in the Global Industrial Packaging reportable segment and \$1.7 million related to properties, plants and equipment, net, in the Paper Packaging & Services reportable segment.

During the year ended October 31, 2021, the Company wrote down long-lived assets and net assets held for sale with a carrying value of \$9.9 million to a fair value of \$1.0 million, resulting in recognized asset impairment charges of \$8.9 million. These charges include \$2.7 million related to properties, plants and equipment, net, and net assets held for sale in the Global Industrial Packaging reportable segment, \$1.2 million related properties, plants and equipment, net in the Land Management reportable segment, and \$5.0 million related to properties, plants and equipment, net, in the Paper Packaging & Services reportable segment.

During the year ended October 31, 2020, the Company wrote down long-lived assets with a carrying value of \$36.4 million to a fair value of \$17.9 million, resulting in recognized asset impairment charges of \$18.5 million. These charges include \$5.1 million related to properties, plants and equipment, net, in the Global Industrial Packaging reportable segment, \$0.9 million related to definite-lived intangibles in the Global Industrial Packaging reportable segment, and \$12.5 million related to properties, plants and equipment, net, in the Paper Packaging & Services reportable segment.

The assumptions used in measuring fair value of long-lived assets are considered level 3 inputs, which include bids received from third parties, recent purchase offers, market comparable information and discounted cash flows based on assumptions that market participants would use.

#### Goodwill The assumptions used in measuring fair value of assets and Indefinite-Lived Intangibles

liabilities held for sale are considered level 3 inputs, which include recent purchase offers, market comparables and/or data obtained from commercial real estate brokers. On an annual basis or when events or circumstances indicate impairment may have occurred, the Company performs impairment tests for goodwill and indefinite-lived intangibles as defined under ASC 350, "Intangibles-Goodwill and Other."

The Company recognized asset impairment charges of \$20.3 million and \$71.0 million for the years ended October 31, 2023 and 2022.

The following table presents quantitative information about the significant unobservable inputs used to determine the fair value of the impairment of long-lived assets held and used, net assets held for sale, goodwill and indefinite-lived intangibles for the twelve months ended October 31, 2023 and 2022:

(in millions)	Quantitative Information about Non-Recurring Fair Value Measurements			
	Fair Value of Impairment	Valuation Technique	Unobservable Input	Range of Input Values
<b>October 31, 2023</b>				
Impairment of Long-Lived Assets	\$ 20.3	Discounted Cash Flows, Indicative Bids	Discounted Cash Flows, Indicative Bids	N/A
<b>Total</b>	<b>\$ 20.3</b>			
<b>October 31, 2022</b>				
Impairment of Long-Lived Assets	\$ 4.0	Discounted Cash Flows, Indicative Bids	Discounted Cash Flows, Indicative Bids	N/A
Impairment of Net Assets Held for Sale	62.4	Indicative Bids	Indicative Bids	N/A
Impairment of Indefinite-Lived Intangibles	4.6	Discounted Cash Flows	Discounted Cash Flows	N/A
<b>Total</b>	<b>\$ 71.0</b>			

During the year ended **October 31, 2020** **October 31, 2023**, the Company allocated \$35.6 million wrote off long-lived assets with a carrying value of **goodwill** \$30.5 million to the Consumer Packaging Group ("CPG") divestiture in April 2020, on a relative fair value basis. There was no **goodwill** of \$10.2 million, resulting in recognized asset impairment for charges of \$20.3 million. These charges include \$1.9 million related to properties, plants and equipment, net, in the years Global Industrial Packaging reportable segment and \$18.4 million related to properties, plants and equipment, net, in the Paper Packaging & Services reportable segment.

During the year ended October 31, 2022, **2021** the Company wrote down long-lived assets with a carrying value of \$4.0 million to a fair value of \$0.0 million, resulting in recognized asset impairment charges of \$4.0 million. These charges include \$2.3 million related to properties, plants and **2020**. There was equipment, net in the Global Industrial Packaging reportable segment and \$1.7 million related to properties, plants and equipment, net, in the Paper Packaging & Services reportable segment. During the year ended October 31, 2022, the Company entered into a definitive agreement to divest its approximately 50% equity interest in the Flexible Products & Services business (the "FPS Divestiture"). This agreement triggered the reclassification of the Flexible Products & Services business to assets and liabilities held for sale, which further resulted in recognized impairment charges of \$62.4 million in the first quarter of 2022. During the year ended October 31, 2022, the Company wrote down indefinite-lived intangible, resulting in recognized impairment charges of \$4.6 million indefinite-lived intangibles million.

During the year ended October 31, 2021, the Company wrote down long-lived assets and net assets held for sale with a carrying value of \$9.9 million to a fair value of \$1.0 million, resulting in recognized asset impairment charges of \$8.9 million. These charges include \$2.7 million related to properties, plants and equipment, net, and net assets held for sale in the years ended October 31, 2022. There was no indefinite-lived intangibles impairment for Global Industrial Packaging reportable segment, \$1.2 million related to properties, plants and equipment, net in the years ended October 31, 2021 Land Management reportable segment and **October 31, 2020**, \$5.0 million related to properties, plants and equipment, net, in the Paper Packaging & Services reportable segment.

#### **NOTE 7 – STOCK-BASED COMPENSATION**

Stock-based compensation is accounted for in accordance with ASC 718, "Compensation – Stock Compensation," which requires companies to estimate the fair value of share-based awards on the date of grant using an option-pricing model.

The Company's material stock-based compensation plans include the Long-Term Incentive Plan, which consists of the 2020 Long-Term Incentive Plan (the "2020 LTIP") and the 2006 Amended and Restated Long-Term Incentive Plan (the "2006 LTIP"); and the 2005 Amended and Restated Outside Directors Equity Award Plan (the "2005 Outside Directors Plan"). The total stock compensation expense (**income**) recorded under all plans was \$34.4 million \$21.4 million, \$34.1 million \$34.4 million and \$(1.2) million \$34.1 million for periods ended **October 31, 2022** **October 31, 2023, 2022 and 2021 and 2020** respectively.

#### **Long-Term Incentive Plan**

The Long-Term Incentive Plan is intended to focus management on the key measures that drive superior performance over the longer term. The Long-Term Incentive Plan provides key employees with incentive compensation based upon consecutive and overlapping three-year performance periods that commence at the start of every year. For each three-year performance period, the performance goals are based on performance criteria as determined by the Compensation Committee.

#### **2020 Long-Term Incentive Plan**

For the three-year performance periods ending after fiscal 2021, awards were or will be made under the 2020 LTIP. Participants may be granted restricted stock units ("RSUs") or performance stock units ("PSUs") or a combination thereof.

The Company grants RSUs based on a three-year vesting period on the basis of service only. The RSUs are an equity-classified plan measured at fair value on the grant date recognized ratably over the service period. Dividend-equivalent rights may be granted in connection with an RSU award and are recognized in conjunction with the Company's dividend issuance and settled upon vesting of the award. Upon vesting, the RSUs are to be awarded in shares of Class A Common Stock.

The Company has made the following grants of RSUs under the 2020 LTIP:

Issuance Date	December 16, 2021	December 17, 2020	February 25, 2020	Grant Date	December 14, 2022	December 16, 2021	December 17, 2020
Grant Date				Grant Date	December 14, 2022	December 16, 2021	December 17, 2020
Service Period	11/1/2021 - 10/31/2024	11/1/2020 - 10/31/2023	11/1/2019 - 10/31/2022	Service Period	11/1/2022 - 10/31/2025	11/1/2021 - 10/31/2024	11/1/2020 - 10/31/2023
RSUs Granted	RSUs Granted	99,006	139,360	RSUs Granted	105,753	99,006	139,360
Weighted Average Fair Value of RSUs	Weighted Average Fair Value of RSUs	\$60.54	\$48.50	Weighted Average Fair Value of RSUs	\$68.99	\$60.54	\$48.50

During 2023, the Company issued 76,005 shares of Class A Common Stock excluding shares withheld for the payment of taxes owed by recipients for RSUs vested for the performance period commenced on November 1, 2020 and ended October 31, 2022.

The Company grants PSUs for a three-year performance period based upon service, performance criteria and market conditions. The performance criteria are based on targeted levels of (a) adjusted earnings before interest, taxes, depreciation, depletion and amortization and (b) total shareholder return as determined by the Compensation Committee. The PSUs are a liability-classified plan wherein the fair value of the PSUs awarded is determined at each reporting period using a Monte Carlo simulation. A

Monte Carlo simulation uses assumptions including the risk-free interest rate, expected volatility of the Company's stock price and expected life of the awards to determine a fair value of the market condition throughout the vesting period. If earned, the PSUs are to be awarded in shares of Class A Common Stock.

The following table summarizes the key assumptions used in estimating the value of PSUs:

Issuance Date	December 16, 2021	December 17, 2020	February 25, 2020	Grant Date	December 14, 2022	December 16, 2021	December 17, 2020
Grant Date				Grant Date	December 14, 2022	December 16, 2021	December 17, 2020
Performance Period	Performance Period	11/1/2021 - 10/31/2024	11/1/2020 - 10/31/2023	Performance Period	11/1/2022 - 10/31/2025	11/1/2021 - 10/31/2024	11/1/2020 - 10/31/2023
PSUs Issued		162,392	253,102	PSUs Granted	183,218	162,392	253,102
Weighted Average Fair Value of PSUs at Issuance Date		\$60.08	\$47.26	Weighted Average Fair Value of PSUs at Grant Date	\$70.06	\$60.08	\$47.26
PSUs Granted				PSUs Granted			
Weighted Average Fair Value of PSUs at Valuation Date				Weighted Average Fair Value of PSUs at Valuation Date			
Value of PSUs at Valuation Date				Value of PSUs at Valuation Date			
Valuation Date	Valuation Date	\$114.60	\$116.94	Valuation Date	\$29.28	\$78.06	\$115.73
Valuation Date	Valuation Date			Valuation Date			
Stock Price	Stock Price	\$66.21	\$66.21	Stock Price	\$63.50	\$63.50	\$63.50
Risk-Free Rate	Risk-Free Rate	4.3%	4.4%	Risk-Free Rate	4.9%	5.3%	—%
Estimated Volatility	Estimated Volatility	34.5%	35.7%	Estimated Volatility	28.1%	26.8%	—%

During 2023, the Company issued 256,053 shares of Class A Common Stock excluding shares withheld for the payment of taxes owed by recipients for PSUs vested for the performance period commenced on November 1, 2020 and ended October 31, 2022.

#### 2006 Amended and Restated Long-Term Incentive Plan

For each of the three-year performance periods ending in fiscal 2021, and 2020, awards were made under the 2006 LTIP, with the performance goals based on targeted levels of adjusted earnings before interest, taxes, depreciation, depletion and amortization. For each of these periods, awards are to be paid 50% in cash and 50% in restricted

stock. All restricted stock awards under the 2006 LTIP are fully vested at the date of award. Under the 2006 LTIP, the Company granted 51,593 shares of restricted Class A Common Stock with a grant date fair value of \$59.83 for 2022 and 80,252 shares of restricted Class A Common Stock with a grant date fair value of \$50.08 for 2021.

The total stock compensation expense (income) recorded under the 2020 Long-Term Incentive Plan was \$20.1 million, \$33.1 million and 2006 LTIP was \$33.1 million, \$32.8 million and \$2.4 million for the periods ended October 31, 2022 October 31, 2023, 2021 2022 and 2020, 2021, respectively.

#### 2005 Amended and Restated Outside Directors Equity Award Plan

Under the 2005 Outside Directors Plan, the Company granted 18,144 shares of restricted Class A Common Stock with a grant date fair value of \$70.41 in 2023 and 22,221 shares of restricted Class A Common Stock with a grant date fair value of \$57.49 in 2022 and 25,686 shares of restricted Class A Common Stock with a grant date fair value of \$47.29 in 2021. 2022. The total expense recorded under the 2005 Outside Directors Plan was \$1.3 million, \$1.2 million \$1.3 million and \$1.1 million \$1.2 million for the periods ended October 31, 2022 October 31, 2023, 2021 2022 and 2020, 2021, respectively. All restricted stock awards under the 2005 Outside Directors Plan are fully vested at the date of award.

For the 2005 Directors Plan, no stock options were granted in 2022, 2021 or 2020 and no shares were forfeited in 2022, 2021 or 2020.

#### NOTE 8 – INCOME TAXES

The provision for income taxes consists of the following:

(in millions)	(in millions)	Year Ended October 31,			(in millions)	Year Ended October 31,		
		2022	2021	2020		2023	2022	2021
Current	Current				Current			
Federal	Federal	\$ 54.6	\$ 45.0	\$ (9.7)	Federal	\$ 77.4	\$ 54.6	\$ 45.0
State and local	State and local	19.9	15.5	3.3	State and local	19.6	19.9	15.5
Non-U.S.	Non-U.S.	49.2	56.3	53.0	Non-U.S.	49.1	49.2	56.3
Total	Total				Total			
Current	Current	123.7	116.8	46.6	Current	146.1	123.7	116.8
Deferred	Deferred				Deferred			
Federal	Federal	12.5	(33.0)	7.9	Federal	(18.8)	12.5	(33.0)
State and local	State and local	(6.6)	(9.9)	10.2	State and local	(8.6)	(6.6)	(9.9)
Non-U.S.	Non-U.S.	7.5	(4.3)	(1.4)	Non-U.S.	(0.9)	7.5	(4.3)
Total	Total				Total			
Deferred	Deferred	13.4	(47.2)	16.7	Deferred	(28.3)	13.4	(47.2)
Tax expense	Tax expense	\$ 137.1	\$ 69.6	\$ 63.3	Tax expense	\$ 117.8	\$ 137.1	\$ 69.6

The U.S. income before income tax expense was \$333.5 million \$240.7 million, \$333.5 million and \$239.3 million in 2023, 2022 and \$25.5 million in 2022, 2021, and 2020, respectively. The non-U.S. income before income tax expense was \$192.2 million \$254.0 million, \$192.2 million and \$239.2 million in 2023, 2022 and \$160.4 million in 2022, 2021, and 2020, respectively.

The following is a reconciliation of the provision for income taxes based on the federal statutory rate to the Company's effective income tax rate:

	Year Ended October 31,						Year Ended October 31,					
	2022		2021		2020		2023		2022		2021	
Federal statutory rate	Federal statutory rate	21.00	%	21.00	%	21.00	%	Federal statutory rate	21.00	%	21.00	%
Impact of foreign tax rate differential	Impact of foreign tax rate differential	2.03	%	0.70	%	0.49	%	Impact of foreign tax rate differential	1.78	%	2.03	%
State and local taxes, net of federal tax benefit	State and local taxes, net of federal tax benefit	2.01	%	0.93	%	5.71	%	State and local taxes, net of federal tax benefit	1.71	%	2.01	%
Net impact of changes in valuation allowances	Net impact of changes in valuation allowances	(1.05)	%	(2.57)	%	(15.23)	%	Net impact of changes in valuation allowances	(2.21)	%	(1.05)	%

Non-deductible write-off and impairment of goodwill and other intangible assets									
Permanent book-tax differences	Permanent book-tax differences	—	%	—	%	4.02	%	Permanent book-tax differences	Permanent book-tax differences
Withholding taxes	Withholding taxes	1.60	%	0.86	%	16.56	%	(0.25)	%
Tax credits	Tax credits	2.33	%	2.86	%	5.28	%	1.60	%
Capital losses	Capital losses	—	%	(5.70)	%	(6.34)	%	0.86	%
Other items, net	Other items, net	(1.83)	%	(3.56)	%	2.52	%	Other items, net	Other items, net
Company's effective income tax rate	Company's effective income tax rate	26.09	%	14.52	%	34.01	%	0.23	%
Company's effective income tax rate	Company's effective income tax rate	23.81	%	26.09	%	14.52	%	(0.84)	%
Company's effective income tax rate	Company's effective income tax rate	23.81	%	26.09	%	14.52	%	(1.99)	%

The primary items which increased the Company's effective income tax rate from the federal statutory rate in 2023 were changes in the mix of earnings among tax jurisdictions, including jurisdictions for which valuation allowances have been recorded, state and local taxes and withholding taxes. The increases were partially offset by tax credits and release of valuation allowances.

The primary items which increased the Company's effective income tax rate from the federal statutory rate in 2022 were changes in the mix of earnings among tax jurisdictions, including jurisdictions for which valuation allowances have been recorded, state and local taxes, withholding taxes and the net \$58.6 million book loss recorded for the **disposal of the Flexibles Packaging JV** **FPS Divestiture** and other **disposals** of businesses for which limited tax benefits were available. The increases were partially offset by decreases in valuation allowances and recording additional capital losses which are expected to be fully utilized.

The primary items which decreased the Company's effective income tax rate from the federal statutory rate in 2021 were capital losses, which **are** **were** expected to reduce capital gains resulting from the sale of timberland; releases of unrecognized tax benefits as a result of the expiration of statute of limitations; decreases in valuation allowances; and other favorable return to provision adjustments and audit settlements. These reductions were offset by an increase in withholding taxes and other immaterial items.

The primary items which increased the Company's effective income tax rate from the federal statutory rate in 2020 were state and local taxes, non-deductible goodwill from divestment of the CPG business, increases in permanent book-tax differences including a one-time elimination related to an intra-company sale and withholding tax liabilities. Increases were offset by a reduction in valuation allowances as a result of utilization of foreign tax credits.

The components of the Company's deferred tax assets and liabilities as of October 31 for the years indicated were as follows:

(in millions)	(in millions)	2022	2021	(in millions)	2023	2022
Deferred tax assets	Deferred tax assets			Deferred tax assets		
Net operating loss and other carryforwards	Net operating loss and other carryforwards	\$ 101.8	\$ 149.0	Net operating loss and other carryforwards	\$ 104.9	\$ 101.8
Incentive liabilities	Incentive liabilities	28.6	16.2	Incentive liabilities	18.6	28.6
Workers compensation accruals	Workers compensation accruals	9.9	10.5			
Inventories	Inventories	3.6	6.4			
Operating lease liabilities	Operating lease liabilities	65.5	74.4	Operating lease liabilities	70.3	65.5
State income taxes	State income taxes	10.3	11.6			
Other reserves	Other reserves	13.0	18.4	Other reserves	16.0	13.0
Deferred compensation	Deferred compensation	2.1	2.2			
Research and development expenses	Research and development expenses			Research and development expenses		
Other	Other	26.9	36.1	Other	45.4	52.8
Total deferred tax assets	Total deferred tax assets	261.7	324.8	Total deferred tax assets	284.9	261.7
Valuation allowance	Valuation allowance	(105.4)	(132.7)	Valuation allowance	(97.3)	(105.4)
Net deferred tax assets	Net deferred tax assets	\$ 156.3	\$ 192.1	Net deferred tax assets	\$ 187.6	\$ 156.3
Deferred tax liabilities	Deferred tax liabilities			Deferred tax liabilities		

Properties, plants and equipment	Properties, plants and equipment	\$ 138.4	\$ 134.9	Properties, plants and equipment	\$ 157.2	\$ 138.4
Operating lease assets	Operating lease assets	65.5	74.4	Operating lease assets	70.3	65.5
Timberland transactions	Timberland transactions	51.8	51.0	Timberland transactions	51.6	51.8
Goodwill and other intangible assets	Goodwill and other intangible assets	174.0	190.2	Goodwill and other intangible assets	150.6	174.0
Pension liabilities	Pension liabilities	8.4	4.5	Pension liabilities	10.6	8.4
Other	Other	51.7	38.4	Other	50.0	51.7
Total deferred tax liabilities	Total deferred tax liabilities	489.8	493.4	Total deferred tax liabilities	490.3	489.8
Net deferred tax liability	Net deferred tax liability	\$ 333.5	\$ 301.3	Net deferred tax liability	\$ 302.7	\$ 333.5

As of **October 31, 2022** **October 31, 2023** and **2021**, the Company had deferred income tax benefits of **\$101.8 million** **\$104.9 million** and **\$149.0 million** **\$101.8 million**, respectively, from net operating losses and other tax credit carryforwards. For the fiscal year ended **October 31, 2022** **October 31, 2023**, these losses and carryforwards are comprised consist of **\$4.4 million** **\$7.5 million**, **\$12.2 million** **\$10.1 million** and **\$85.2 million** **\$87.3 million** in U.S. Federal, U.S. state and non-U.S. jurisdictions, respectively. For the fiscal year ended **October 31, 2021** **October 31, 2022**, these losses and carryforwards are comprised consist of **\$12.3 million** **\$4.4 million**, **\$21.8 million** **\$12.2 million** and **\$110.4 million** **\$85.2 million** in U.S. Federal, U.S. state and non-U.S. jurisdictions, respectively. The Company has recorded valuation allowances of **\$92.4 million** **\$82.8 million** and **\$116.8 million** **\$92.4 million** against non-U.S. deferred tax assets as of **October 31, 2022** **October 31, 2023** and **2021**, 2022, respectively. The Company has also recorded valuation allowances against U.S. deferred tax assets of **\$13.0 million** **\$14.5 million** and **\$15.9 million** **\$13.0 million**, as of **October 31, 2022** **October 31, 2023** and **2021**, 2022, respectively. The Company had net changes in valuation allowances in **2022** 2023 of **\$27.3 million** **\$8.1 million**.

A reconciliation of the beginning and ending amount of unrecognized tax benefits is as follows:

(in millions)	(in millions)	2022	2021	2020	(in millions)	2023	2022	2021
Balance of unrecognized tax benefit at November 1	Balance of unrecognized tax benefit at November 1	\$ 31.0	\$ 36.0	\$ 38.8	Balance of unrecognized tax benefit at November 1	\$ 24.3	\$ 31.0	\$ 36.0
Increases in tax positions for prior years	Increases in tax positions for prior years	0.2	1.2	10.1	Increases in tax positions for prior years	0.6	0.2	1.2
Decreases in tax positions for prior years		—	—	(10.5)				
Increases in tax positions for current years	Increases in tax positions for current years	5.9	1.7	2.6	Increases in tax positions for current years	4.1	5.9	1.7
Lapse in statute of limitations	Lapse in statute of limitations	(11.4)	(8.0)	(5.5)	Lapse in statute of limitations	(4.6)	(11.4)	(8.0)
Currency translation	Currency translation	(1.4)	0.1	0.5	Currency translation	(1.0)	(1.4)	0.1
Balance at October 31	Balance at October 31	\$ 24.3	\$ 31.0	\$ 36.0	Balance at October 31	\$ 23.4	\$ 24.3	\$ 31.0

The **2022** 2023 net decrease in unrecognized tax benefits is primarily related to decreases in unrecognized tax benefits related lapses in statute of limitations. The Company files income tax returns in the U.S. federal jurisdiction, various U.S. state jurisdictions and various non-U.S. jurisdictions and is subject to audit by various taxing authorities for **2014** 2015 through the current year. The Company has completed its U.S. federal tax audit for the tax years through **2015**, 2016, and the statutes of limitations have expired for years **2016** 2017 through 2018 are closed for audit. **2019**.

The **October 31, 2022** **October 31, 2023**, **2022**, **2021** **2020** balances include **\$24.3 million** **\$23.4 million**, **\$31.0 million** **\$24.3 million** and **\$36.0 million** **\$31.0 million**, respectively, of unrecognized tax benefits that, if recognized, would have an impact on the effective tax rate. The Company also recognizes accrued interest and penalties related to unrecognized tax benefits in income tax expense net of tax, as applicable. As of **October 31, 2022** **October 31, 2023** and **2021**, 2022, the Company had accrued for the payment of interest and penalties in the amounts of **\$4.8 million** and **\$7.7 million** **\$4.8 million**, respectively.

The Company has estimated the reasonably possible expected net change in unrecognized tax benefits through **October 31, 2022** **October 31, 2023** under ASC 740, "Income Taxes." The Company's estimate is based on lapses of the applicable statutes of limitations, settlements and payments of uncertain tax positions. Though actual

results may materially differ, the estimated net decrease in unrecognized tax benefits for the next 12 months could be up to **\$4.6 million** **\$6.7 million**.

#### **NOTE 9 – POST-RETIREMENT BENEFIT PLANS**

##### **Defined Benefit Pension Plans**

The Company has certain non-contributory defined benefit pension plans for salaried and hourly employees in the United States, Canada, Germany, the Netherlands, South Africa and the United Kingdom. The Company uses a measurement date of October 31 for its pension plans. The salaried employees plans' benefits are based primarily on years of service and earnings. The hourly employees plans' benefits are based primarily upon years of service, and certain benefit provisions are subject to collective bargaining. The Company contributes an amount that is not less than the minimum funding and not more than the maximum tax-deductible amount to these plans. Salaried employees in the United States who commence service on or after November 1, 2007 are not eligible to participate in the U.S. defined benefit pension plan, but are eligible to participate in a defined contribution retirement program. Salaried employees outside the U.S. also have various dates in which they are not eligible to participate in the respective defined benefit pension plans, but are eligible to participate in a defined contribution retirement program. The category "Other International" represents the noncontributory defined benefit pension plans in Canada and South Africa for October 31, 2023 and Canada, South Africa and Turkey for October 31, 2021 and 2020, October 31, 2022.

Pension plan contributions by the Company totaled **\$31.4 million** **\$27.5 million** during 2022, 2023, which consisted of **\$27.7 million** **\$23.7 million** of employer contributions and **\$3.7 million** **\$3.8 million** of benefits paid directly by the Company. Pension plan contributions, including benefits paid directly by the Company, totaled **\$31.4 million** and **\$21.9 million** during 2022 and **\$26.4 million** during 2021, and 2020, respectively. Contributions, including benefits paid directly by the Company, during 2023, 2024 are expected to be approximately **\$28.4 million** **\$20.9 million**.

The following table presents the number of participants in the defined benefit plans:

October 31, 2023	Active participants							October 31, 2023	United						United Kingdom	Netherlands	Other International	
									Consolidated	United States	Germany	United Kingdom	Netherlands	International	Consolidated	United States	Germany	United Kingdom
Active participants	Active participants	1,509	1,416	—	27	—	66	—										
Vested former employees and deferred members	Vested former employees and deferred members	3,181	2,690	73	290	100	28											
Retirees and beneficiaries	Retirees and beneficiaries	3,570	2,156	279	772	312	51											
October 31, 2022	October 31, 2022	United Consolidated	United States	United Germany	United Kingdom	United Netherlands	Other International	October 31, 2022	United Consolidated	United States	United Germany	United Kingdom	United Netherlands	Other International				
Active participants	Active participants	1,659	1,579	29	—	51	—	Active participants	1,659	1,579	29	—	51	—				
Vested former employees and deferred members	Vested former employees and deferred members	3,348	2,764	75	366	115	28	Vested former employees and deferred members	3,348	2,764	75	366	115	28				
Retirees and beneficiaries	Retirees and beneficiaries	3,426	2,102	281	662	330	51	Retirees and beneficiaries	3,426	2,102	281	662	330	51				
October 31, 2021	October 31, 2021	United Consolidated	United States	United Germany	United Kingdom	United Netherlands	Other International											
Active participants	Active participants	3,603	1,733	30	—	60	1,780											
Vested former employees and deferred members	Vested former employees and deferred members	3,468	2,881	79	366	107	35											
Retirees and beneficiaries	Retirees and beneficiaries	3,306	1,962	276	662	354	52											

The weighted average assumptions used to measure the year-end benefit obligations as of October 31 were as follows:

As of October 31,	As of October 31,	2022	2021	As of October 31,	2023	2022			
Discount rate	Discount rate	5.61	%	2.55	%	6.05	%	5.61	%
Rate of compensation increase	Rate of compensation increase	2.99	%	2.96	%	2.96	%	2.99	%

The weighted average assumptions used to determine the pension cost for the years ended October 31 were as follows:

For the year ended October 31,	For the year ended October 31,	2022	2021	2020	For the year ended October 31,	2023	2022	2021
Discount rate	Discount rate	2.55 %	2.48 %	2.74 %	Discount rate	5.61 %	2.55 %	2.48 %
Expected Return on plan assets	Expected Return on plan assets	3.86 %	3.87 %	4.64 %	Expected Return on plan assets	4.99 %	3.86 %	3.87 %
Rate of compensation increase	Rate of compensation increase	2.96 %	2.91 %	2.85 %	Rate of compensation increase	2.99 %	2.96 %	2.91 %

The discount rate is determined by developing a hypothetical portfolio of individual high-quality corporate bonds available at the measurement date, the coupon and principal payments of which would be sufficient to satisfy the plans' expected future benefit payments as defined for the projected benefit obligation. The discount rate by country is equivalent to the average yield on that hypothetical portfolio of bonds and is a reflection of current market settlement rates on such high quality bonds, government treasuries and annuity purchase rates. To determine the expected long-term rate of return on pension plan assets, the Company considers current and expected asset allocations, as well as historical and expected returns on various categories of plan assets. In developing future return expectations for the defined benefit pension plans' assets, the Company formulates views on the future economic environment, both in the U.S. and globally. The Company evaluates general market trends and historical relationships among a number of key variables that impact asset class returns, such as expected earnings growth, inflation, valuations, yields and spreads, using both internal and external sources. The Company takes into account expected volatility by asset class and diversification across classes to determine expected overall portfolio results given current and expected allocations. The Company uses published mortality tables for determining the expected lives of plan participants and believes that the tables selected are most-closely associated with the expected lives of plan participants as the tables are based on the country in which the participant is employed.

Based on the Company's analysis of future expectations of asset performance, past return results and its current and expected asset allocations, the Company has assumed a 3.86% 4.99% long-term expected return on those assets for cost recognition in 2022, 2023. For the defined benefit pension plans, the Company applies its expected rate of return to a market-related value of assets, which stabilizes variability in the amounts to which the Company applies that expected return.

The Company amortizes experience gains and losses as well as the effects of changes in actuarial assumptions and plan provisions over a period no longer than the average future service of employees.

During the year ended October 31, 2023, plan assets of \$7.7 million were used to purchase \$5.9 million in annuity contracts and pay \$1.8 million in lump sums to retirees to settle the pension obligation and close the Canada pension plans. The settlement items described above resulted in non-cash pension settlement charges of \$3.5 million of unrecognized net actuarial loss included in accumulated other comprehensive loss for the year ended October 31, 2023.

During the year ended October 31, 2022, \$2.4 million of projected benefit obligation for plan participants in Turkey was irrevocably transferred to a third-party buyer through the sale of business (part of the FPS Divestiture) resulting in a \$1.0 million loss in accumulated other comprehensive income that was recognized as a loss on sale of business.

During the year ended October 31, 2021, an annuity contract in the amount of approximately \$98.8 million was purchased with defined benefit plan assets, and the pension obligation for certain retirees in the United States was irrevocably transferred from that plan to the annuity contract settling that obligation. Additionally, lump sum payments totaling \$13.9 million were made from the U.S. defined benefit plan assets to certain participants who agreed to such payments, representing the current fair value of such participants' respective pension benefits. The settlement items described above resulted in a decrease in the value of both the plan assets and the projected benefit obligation of \$112.7 million and non-cash pension settlement charges of \$8.8 million of unrecognized net actuarial loss included in accumulated other comprehensive loss for the year ended October 31, 2021. Additional lump sum payments in Canada, South Africa and the United Kingdom exceeded the settlement threshold for the fiscal year triggering settlement accounting. Lump sum payments for these plans resulted in non-cash pension settlement charges of \$0.3 million of unrecognized net actuarial loss that was included in accumulated other comprehensive loss for the year ended October 31, 2021.

## Benefit Obligations

The components of net periodic pension cost include the following:

For the year ended October 31, 2023 (in millions)	For the year ended October 31, 2023						
	(in millions)	United States		United Kingdom		Netherlands	Other
Service cost		8.0	\$ 6.5	\$ 0.1	\$ 0.5		\$ 0.7
Interest cost		35.0	26.8	1.1	4.8		2.0
Expected return on plan assets		(39.0)	(30.6)	—	(5.8)		(2.1)
Amortization of prior service benefit		(0.4)	(0.3)	—	—		(0.1)

Recognized net actuarial (gain) loss	Recognized net actuarial (gain) loss	(2.1)	(2.2)	—	—	—							
<u>Special Events</u>	<u>Special Events</u>												
Settlement	Settlement	3.5	—	—	—	—							
Net periodic pension cost (benefit)	Net periodic pension cost (benefit)	\$ 5.0	\$ 0.2	\$ 1.2	\$ (0.5)	\$ 0.5							
<b>For the year ended October 31, 2022</b>	<b>For the year ended October 31, 2022</b>			<b>For the year ended October 31, 2022</b>									
(in millions)	(in millions)	United States	United Kingdom (in millions)	Other Netherlands International	United States	United Kingdom Netherlands International							
Service cost	Service cost	\$ 11.5	\$ 10.0	\$ 0.2	\$ 0.5	\$ 0.3	Service cost	\$ 11.5	\$ 10.0	\$ 0.2	\$ 0.5	\$ 0.5	\$ 0.5
Interest cost	Interest cost	19.9	16.1	0.3	2.6	0.5	0.4	Interest cost	19.9	16.1	0.3	2.6	0.5
Expected return on plan assets	Expected return on plan assets	(32.5)	(27.0)	—	(3.9)	(0.8)	(0.8)	Expected return on plan assets	(32.5)	(27.0)	—	(3.9)	(0.8)
Amortization of prior service benefit	Amortization of prior service benefit	(0.4)	(0.3)	—	—	(0.1)	—	Amortization of prior service benefit	(0.4)	(0.3)	—	—	(0.1)
Recognized net actuarial loss	Recognized net actuarial loss	7.7	6.0	0.9	0.6	—	0.2	Recognized net actuarial loss	7.7	6.0	0.9	0.6	—
<u>Special Events</u>	<u>Special Events</u>							<u>Special Events</u>					
Divestiture Charge	Divestiture Charge	1.0	—	—	—	—	1.0	Divestiture Charge	1.0	—	—	—	—
Net periodic pension cost (benefit)	Net periodic pension cost (benefit)	\$ 7.2	\$ 4.8	\$ 1.4	\$ (0.2)	\$ 0.1	\$ 1.1	Net periodic pension cost (benefit)	\$ 7.2	\$ 4.8	\$ 1.4	\$ (0.2)	\$ 0.1
<b>For the year ended October 31, 2021</b>	<b>For the year ended October 31, 2021</b>			<b>For the year ended October 31, 2021</b>									
(in millions)	(in millions)	United States	United Kingdom (in millions)	Other Netherlands International	United States	United Kingdom Netherlands International							
Service cost	Service cost	\$ 12.1	\$ 10.7	\$ 0.3	\$ 0.5	\$ 0.1	Service cost	\$ 12.1	\$ 10.7	\$ 0.3	\$ 0.5	\$ 0.5	\$ 0.5
Interest cost	Interest cost	18.8	15.4	0.3	2.5	0.4	0.2	Interest cost	18.8	15.4	0.3	2.5	0.4
Expected return on plan assets	Expected return on plan assets	(31.8)	(25.8)	—	(4.6)	(0.7)	(0.7)	Expected return on plan assets	(31.8)	(25.8)	—	(4.6)	(0.7)
Amortization of prior service benefit	Amortization of prior service benefit	(0.3)	(0.1)	—	—	(0.2)	—	Amortization of prior service benefit	(0.3)	(0.1)	—	—	(0.2)
Recognized net actuarial loss	Recognized net actuarial loss	12.6	10.1	1.3	1.1	—	0.1	Recognized net actuarial loss	12.6	10.1	1.3	1.1	—
<u>Special Events</u>	<u>Special Events</u>							<u>Special Events</u>					
Settlement	Settlement	9.1	8.8	—	0.3	—	—	Settlement	9.1	8.8	—	0.3	—
Net periodic pension cost (benefit)	Net periodic pension cost (benefit)	\$ 20.5	\$ 19.1	\$ 1.9	\$ (0.2)	\$ —	\$ (0.3)	Net periodic pension cost (benefit)	\$ 20.5	\$ 19.1	\$ 1.9	\$ (0.2)	\$ —
<b>For the year ended October 31, 2020</b>													
(in millions)		United States	United Kingdom		Other Netherlands International								
Service cost	\$ 12.8	\$ 11.5	\$ 0.4	\$ 0.5	\$ 0.3	\$ 0.1							
Interest cost	25.9	22.4	0.2	2.7	0.3	0.3							

Expected return on plan assets	(37.9)	(31.4)	—	(5.2)	(0.7)	(0.6)
Amortization of prior service (benefit) cost	(0.1)	(0.1)	—	0.1	(0.1)	—
Recognized net actuarial loss	13.2	10.2	1.8	1.1	—	0.1
<b>Special Events</b>						
Settlement	0.3	(0.1)	—	0.4	—	—
<b>Net periodic pension cost (benefit)</b>	<b>\$ 14.2</b>	<b>\$ 12.5</b>	<b>\$ 2.4</b>	<b>\$ (0.4)</b>	<b>\$ (0.2)</b>	<b>\$ (0.1)</b>

Benefit obligations are described in the following tables. Accumulated and projected benefit obligations ("ABO" ("ABO" and "PBO" "PBO") represent the obligations of a pension plan for past service as of the measurement date. ABO is the present value of benefits earned to date with benefits computed based on current compensation levels. PBO is ABO increased to reflect expected future compensation.

The following table sets forth the plans' change in projected benefit obligation:

For the year ended October 31, 2023 (in millions)		For the year ended October 31, 2023 (in millions)					
Change in benefit obligation:		United States United Kingdom United Netherlands International					
Benefit obligation at beginning of year		Benefit obligation at beginning of year					
Service cost		\$ 651.7	\$ 470.3	\$ 25.9	\$ 95.8	\$ 51.4	\$
Interest cost		Service cost	8.0	6.5	0.1	0.5	0.7
Plan participant contributions		Interest cost	35.0	26.8	1.1	4.8	2.0
Expenses paid from assets		Plan participant contributions	0.2	—	—	—	0.2
Actuarial gain		Expenses paid from assets	(3.4)	(1.7)	—	(1.0)	(0.5)
Foreign currency effect		Actuarial gain	(24.3)	(12.8)	(0.9)	(8.5)	(1.8)
Benefits paid		Foreign currency effect	9.7	—	1.6	4.8	3.2
Settlements		Benefits paid	(65.1)	(51.6)	(1.4)	(6.9)	(4.6)
Benefit obligation at end of year		Settlements	(7.7)	—	—	—	—
For the year ended October 31, 2022	For the year ended October 31, 2022	Benefit obligation at end of year	\$ 604.1	\$ 437.5	\$ 26.4	\$ 89.5	\$ 50.6
For the year ended October 31, 2022 (in millions)		For the year ended October 31, 2022 (in millions)					
Change in benefit obligation:		Change in benefit obligation:					

Benefit obligation at beginning of year	Benefit obligation at beginning of year	\$	989.2	\$	679.6	\$	39.3	\$	174.1	\$	82.5	\$	13.7	Benefit obligation at beginning of year	\$	989.2	\$	679.6	\$	39.3	\$	174.1	\$	82.5	\$
Service cost	Service cost		11.5		10.0		0.2		0.5		0.5		0.3	Service cost		11.5		10.0		0.2		0.5		0.5	
Interest cost	Interest cost		19.9		16.1		0.3		2.6		0.5		0.4	Interest cost		19.9		16.1		0.3		2.6		0.5	
Plan participant contributions	Plan participant contributions		0.2		—		—		—		0.2		—	Plan participant contributions		0.2		—		—		—		0.2	
Expenses paid from assets	Expenses paid from assets		(2.8)		(1.9)		—		(0.8)		—		(0.1)	Expenses paid from assets		(2.8)		(1.9)		—		(0.8)		—	
Actuarial gain	Actuarial gain		(265.9)		(188.9)		(7.6)		(51.2)		(17.6)		(0.6)	Actuarial gain		(265.9)		(188.9)		(7.6)		(51.2)		(17.6)	
Foreign currency effect	Foreign currency effect		(40.3)		—		(5.0)		(23.0)		(10.2)		(2.1)	Foreign currency effect		(40.3)		—		(5.0)		(23.0)		(10.2)	
Benefits paid	Benefits paid		(57.7)		(44.6)		(1.3)		(6.4)		(4.5)		(0.9)	Benefits paid		(57.7)		(44.6)		(1.3)		(6.4)		(4.5)	
Divestiture	Divestiture		(2.4)		—		—		—		—		(2.4)	Divestiture		(2.4)		—		—		—		—	
<b>Benefit obligation at end of year</b>	<b>Benefit obligation at end of year</b>	<b>\$</b>	<b>651.7</b>	<b>\$</b>	<b>470.3</b>	<b>\$</b>	<b>25.9</b>	<b>\$</b>	<b>95.8</b>	<b>\$</b>	<b>51.4</b>	<b>\$</b>	<b>8.3</b>	<b>Benefit obligation at end of year</b>	<b>\$</b>	<b>651.7</b>	<b>\$</b>	<b>470.3</b>	<b>\$</b>	<b>25.9</b>	<b>\$</b>	<b>95.8</b>	<b>\$</b>	<b>51.4</b>	<b>\$</b>
<b>For the year ended October 31,</b>																									
<b>2021</b>																									
<i>(in millions)</i>																									
<b>Change in benefit obligation:</b>																									
Benefit obligation at beginning of year																									
Service cost																									
Interest cost																									
Plan participant contributions																									
Expenses paid from assets																									
Actuarial loss (gain)																									
Foreign currency effect																									
Benefits paid																									
Other																									
<b>Benefit obligation at end of year</b>																									

The following tables set forth the PBO, ABO, plan assets and instances where the ABO exceeds the plan assets for the respective years:

(in millions)	(in millions)	United	United	Other	(in millions)	United	United	Other													
		Consolidated	States	Germany	Kingdom	Netherlands	International		Consolidated	States	Germany	Kingdom	Netherlands	International							
<b>Actuarial value of benefit obligations and plan assets</b>	<b>Actuarial value of benefit obligations and plan assets</b>								<b>Actuarial value of benefit obligations and plan assets</b>												
October 31, 2023									October 31, 2023												
Projected benefit obligation									Projected benefit obligation	\$	604.1	\$	437.5	\$	26.4	\$	89.5	\$	50.6	\$	0.1

Accumulated benefit obligation		Accumulated benefit obligation	589.8	424.5	25.9	89.5	49.8	0.1
Plan assets		Plan assets	584.0	431.6	—	99.8	49.4	3.2
October 31, 2022	October 31, 2022		October 31, 2022					
Projected benefit obligation	Projected benefit obligation	\$ 651.7	\$ 470.3	\$ 25.9	\$ 95.8	\$ 51.4	\$ 8.3	
Accumulated benefit obligation	Accumulated benefit obligation	636.2	456.1	25.3	95.8	50.7	8.3	
Plan assets	Plan assets	624.6	451.1	—	111.6	50.3	11.6	
October 31, 2021		Plan assets	624.6	451.1	—	111.6	50.3	11.6
Projected benefit obligation	\$ 989.2	\$ 679.6	\$ 39.3	\$ 174.1	\$ 82.5	\$ 13.7		
<b>Plans with ABO in excess of Plan assets</b>								
October 31, 2023		Plans with ABO in excess of Plan assets						
Accumulated benefit obligation	Accumulated benefit obligation	961.0	655.4	38.2	174.1	81.2	12.1	
Plan assets	Plan assets	950.8	646.4	—	205.4	84.5	14.5	
<b>Plans with ABO in excess of Plan assets</b>		Accumulated benefit obligation	\$ 104.4	\$ 28.7	\$ 25.9	\$ —	\$ 49.8	\$ —
October 31, 2022		Plan assets	49.4	—	—	—	49.4	—
Accumulated benefit obligation	Accumulated benefit obligation	\$ 106.6	\$ 30.6	\$ 25.3	\$ —	\$ 50.7		
Plan assets	Plan assets	50.3	—	—	—	50.3	—	
October 31, 2021		Accumulated benefit obligation	\$ 106.6	\$ 30.6	\$ 25.3	\$ —	\$ 50.7	\$ —
Accumulated benefit obligation	\$ 75.1	\$ 35.3	\$ 38.2	\$ —	\$ —	\$ 1.6		
Plan assets	—	—	—	—	—	—		

The actuarial (gain) loss for all pension plans was primarily related to a change in discount rates used to measure the benefit obligations of those plans.

Future benefit payments for the Company's global plans, which reflect expected future service, as appropriate, during the next five years, and in the aggregate for the five years thereafter, are as follows:

(in millions)	(in millions)	Expected Benefit Payments	(in millions)	Expected Benefit Payments
Year(s)	Year(s)	Year(s)		
2023	\$	54.8		
2024	2024	54.8		
2025	2025	51.7		
2026	2026	52.1		
2027	2027	53.3		
2028-2032		262.1		
2028		2028		
2029-2033		2029-2033		
<b>Plan assets</b>				

The assets of all the Company's Company's plans consist of U.S. and non-U.S. equity securities, government and corporate bonds, cash, insurance annuities and mutual funds.

The investment policy reflects the long-term nature of the plans' funding obligations. The assets are invested to provide the opportunity for both income and growth of principal. This objective is pursued as a long-term goal designed to provide required benefits for participants without undue risk. It is expected that this objective can be achieved through a well-diversified asset portfolio. All equity investments are made within the guidelines of quality, marketability and diversification mandated by the Employee Retirement Income Security Act and/or other relevant statutes and laws. Investment managers are directed to maintain equity portfolios at a risk level approximately equivalent to that of the specific benchmark established for that portfolio.

The Company's weighted average asset allocations at the measurement date and the target asset allocations by category are as follows:

Asset Category	Asset Category	2023 Target	2022 Target	2022 Actual	Asset Category	2024 Target	2023 Target	2023 Actual
Equity securities	Equity securities	20 %	20 %	22 %	Equity securities	20 %	20 %	20 %
Debt securities	Debt securities	66 %	66 %	63 %	Debt securities	62 %	66 %	61 %
Other	Other	14 %	14 %	15 %	Other	18 %	14 %	19 %
Total	Total	100 %	100 %	100 %	Total	100 %	100 %	100 %

The fair value of the pension plans' investments is presented below. The inputs and valuation techniques used to measure the fair value of the assets are consistently applied and described in Note 6 of the Notes to the Consolidated Financial Statements.

For the year ended October 31, 2023 (in millions)	For the year ended October 31, 2023						United States Germany United Kingdom Netherlands International			
	Change in plan assets:	Fair value of plan assets at beginning of year	Actual return on plan assets	Expenses paid	Plan participant contributions	Foreign currency impact	Employer contributions	Benefits paid out of plan	Settlements	Fair value of plan assets at end of year
Change in plan assets:										
Fair value of plan assets at beginning of year		\$ 624.6	\$ 451.1	\$ —	\$ 111.6	\$ 50.3	\$ 11.6			
Actual return on plan assets		(0.8)	10.3	—	(11.3)	—	0.2			
Expenses paid		(3.4)	(1.7)	—	(1.0)	(0.5)	(0.2)			
Plan participant contributions		0.2	—	—	—	0.2	—			
Foreign currency impact		8.7	—	—	5.7	3.1	(0.1)			
Employer contributions		23.7	21.0	—	1.7	0.9	0.1			
Benefits paid out of plan		(61.3)	(49.1)	—	(6.9)	(4.6)	(0.7)			
Settlements		(7.7)	—	—	—	—	(7.7)			
Fair value of plan assets at end of year		\$ 584.0	\$ 431.6	\$ —	\$ 99.8	\$ 49.4	\$ 3.2			
For the year ended October 31, 2022	For the year ended October 31, 2022	Consolidated United States	Germany United Kingdom	Netherlands International	For the year ended October 31, 2022	Consolidated United States	Germany United Kingdom	Netherlands International	For the year ended October 31, 2022	Other International

(in millions)	(in millions)		(in millions)													
Change in plan assets:	Change in plan assets:										Change in plan assets:					
Fair value of plan assets at beginning of year	Fair value of plan assets at beginning of year										Fair value of plan assets at beginning of year					
Actual return on plan assets	Actual return on plan assets										Actual return on plan assets					
Expenses paid	Expenses paid										Expenses paid					
Plan participant contributions	Plan participant contributions										Plan participant contributions					
Foreign currency impact	Foreign currency impact										Foreign currency impact					
Employer contributions	Employer contributions										Employer contributions					
Benefits paid out of plan	Benefits paid out of plan										Benefits paid out of plan					
Fair value of plan assets at end of year	Fair value of plan assets at end of year										Fair value of plan assets at end of year					
<b>For the year ended</b>																
<b>October 31, 2021</b>																
(in millions)	Consolidated	United States	Germany	United Kingdom	Netherlands	International										
Change in plan assets:																
Fair value of plan assets at beginning of year	\$ 1,002.1	\$ 687.0	\$ —	\$ 210.0	\$ 92.0	\$ 13.1										
Actual return on plan assets	77.1	88.4	—	(9.8)	(3.1)	1.6										
Expenses paid	(3.1)	(2.3)	—	(0.9)	0.2	(0.1)										
Plan participant contributions	0.2	—	—	—	0.2	—										
Foreign currency impact	12.5	—	—	12.4	(0.9)	1.0										
Employer contributions	17.8	14.0	—	2.7	1.1	—										
Benefits paid out of plan	(155.8)	(140.7)	—	(9.0)	(5.0)	(1.1)										
Fair value of plan assets at end of year	\$ 950.8	\$ 646.4	\$ —	\$ 205.4	\$ 84.5	\$ 14.5										

The following table presents the fair value measurements for the pension assets:

As of October 31, 2023 (in millions)	Asset Category	Fair Value Measurement				
		As of October 31, 2023 (in millions)	Level 1	Level 2	Level 3	Total
Mutual funds	Mutual funds	\$ 35.5	\$ 24.3	\$ —	\$ 59.8	
Cash	Cash	11.9	—	—	—	11.9

Corporate bonds	Corporate bonds	—	159.1	—	159.1
Government bonds	Government bonds	—	57.5	—	57.5
Other assets	Other assets	—	4.0	—	4.0
<b>Total Assets in the Fair Value Hierarchy</b>	<b>Total Assets in the Fair Value Hierarchy</b>				
<b>Investments Measured at Net Asset Value</b>	<b>Investments Measured at Net Asset Value</b>				
Insurance contracts	Insurance contracts				87.9
Common stock funds	Common stock funds				83.4
Corporate bond funds	Corporate bond funds				120.4
<b>Investments at Fair Value</b>	<b>Investments at Fair Value</b>				
		\$ 47.4	\$ 244.9	\$ —	\$ 584.0
<b>Fair Value Measurement</b>					
<b>As of October 31, 2022 (in millions)</b>	<b>As of October 31, 2022 (in millions)</b>	<b>Level 1</b>	<b>Level 2</b>	<b>Level 3</b>	<b>Total</b>
<b>Asset Category</b>	<b>Asset Category</b>				
Mutual funds	Mutual funds	\$ 62.9	\$ 58.0	\$ —	\$ 120.9
Cash	Cash	16.0	—	—	16.0
Corporate bonds	Corporate bonds	—	160.5	—	160.5
Government bonds	Government bonds	—	51.6	—	51.6
Other assets	Other assets	—	2.0	—	2.0
<b>Total Assets in the Fair Value Hierarchy</b>	<b>Total Assets in the Fair Value Hierarchy</b>				
		78.9	272.1	—	351.0
<b>Investments Measured at Net Asset Value</b>	<b>Investments Measured at Net Asset Value</b>				
Insurance contracts	Insurance contracts				72.9
Common stock funds	Common stock funds				77.3
Corporate bond funds	Corporate bond funds				123.4
<b>Investments at Fair Value</b>	<b>Investments at Fair Value</b>				
		\$ 78.9	\$ 272.1	\$ —	\$ 624.6
<b>Fair Value Measurement</b>					
<b>As of October 31, 2021 (in millions)</b>	<b>Level 1</b>	<b>Level 2</b>	<b>Level 3</b>	<b>Total</b>	
<b>Asset Category</b>					
Mutual funds	\$ 87.4	\$ 128.5	\$ —	\$ 215.9	
Common stock	6.6	—	—	6.6	
Cash	15.7	—	—	15.7	
Corporate bonds	—	228.5	—	228.5	
Government bonds	—	44.5	—	44.5	
Other assets	—	1.0	—	1.0	
<b>Total Assets in the Fair Value Hierarchy</b>	<b>109.7</b>	<b>402.5</b>	<b>—</b>	<b>512.2</b>	

**Investments Measured at Net Asset Value**

Insurance contracts	122.9
Common stock funds	94.2
Corporate bond funds	209.2
Government bond funds	12.3
<b>Investments at Fair Value</b>	<b>\$ 109.7</b>
	<b>\$ 402.5</b>
	<b>\$ —</b>
	<b>\$ 950.8</b>

Financial statement presentation including other comprehensive income:

As of October		As of October						
31, 2023		31, 2023						
(in millions)		(in millions)		United	United			
As of October	As of October	As of October	As of October	United States	United Kingdom	Netherlands	International	Other
31, 2022	31, 2022	31, 2022	31, 2022	United States	United Kingdom	Netherlands	International	Other
(in millions)	(in millions)	Consolidated	United States	Germany	(in millions)	United Kingdom	Netherlands	International
Unrecognized net actuarial loss (gain)								
Unrecognized prior service benefit								
Accumulated other comprehensive loss (income) -								
Pre-tax		\$ 109.2	\$ 50.5	\$ 1.6	\$ 53.9	\$ 3.4	\$ (0.2)	
Amounts recognized in the Consolidated Balance Sheets consist of:								
Prepaid benefit cost								
Accrued benefit liability								
Accumulated other comprehensive loss (income) -								
Pre-tax		109.2	50.5	1.6	53.9	3.4	(0.2)	
Net amount recognized								
As of October	As of October	As of October	As of October	As of October	As of October	As of October	As of October	As of October
31, 2022	31, 2022	31, 2022	31, 2022	31, 2022	31, 2022	31, 2022	31, 2022	31, 2022
(in millions)	(in millions)	Consolidated	United States	Germany	(in millions)	United Kingdom	Netherlands	International
Unrecognized net actuarial loss	Unrecognized net actuarial loss	\$ 93.4	\$ 41.0	\$ 2.3	\$ 43.2	\$ 3.9	\$ 3.0	\$ 3.0
Unrecognized prior service credit		(1.4)	(0.4)	—	—	(1.0)	—	
Unrecognized prior service benefit								
	Unrecognized prior service benefit							

Accumulated other comprehensive loss - Pre-tax	Accumulated other comprehensive loss - Pre-tax	\$ 92.0	\$ 40.6	\$ 2.3	\$ 43.2	\$ 2.9	\$ 3.0	Accumulated other comprehensive loss - Pre-tax	\$ 92.0	\$ 40.6	\$ 2.3	\$ 43.2	\$ 2.9	\$ 3.0
Amounts recognized in the Consolidated Balance Sheets consist of:	Amounts recognized in the Consolidated Balance Sheets consist of:							Amounts recognized in the Consolidated Balance Sheets consist of:						
Prepaid benefit cost	Prepaid benefit cost	\$ 30.8	\$ 11.7	\$ —	\$ 15.8	\$ —	\$ 3.3	Prepaid benefit cost	\$ 30.8	\$ 11.7	\$ —	\$ 15.8	\$ —	\$ 3.3
Accrued benefit liability	Accrued benefit liability	(58.0)	(30.8)	(25.9)	—	(1.3)	—	Accrued benefit liability	(58.0)	(30.8)	(25.9)	—	(1.3)	—
Accumulated other comprehensive loss - Pre-tax	Accumulated other comprehensive loss - Pre-tax	92.0	40.6	2.3	43.2	2.9	3.0	Accumulated other comprehensive loss - Pre-tax	92.0	40.6	2.3	43.2	2.9	3.0
Net amount recognized	Net amount recognized	\$ 64.8	\$ 21.5	\$ (23.6)	\$ 59.0	\$ 1.6	\$ 6.3	Net amount recognized	\$ 64.8	\$ 21.5	\$ (23.6)	\$ 59.0	\$ 1.6	\$ 6.3
<b>As of October 31, 2021</b>														
<i>(in millions)</i>		<b>Consolidated</b>	<b>United States</b>	<b>Germany</b>	<b>United Kingdom</b>	<b>Netherlands</b>	<b>Other</b>	<b>International</b>						
Unrecognized net actuarial loss		\$ 87.2	\$ 29.9	\$ 11.9	\$ 36.2	\$ 4.4	\$ 4.8							
Unrecognized prior service cost (credit)		(2.0)	(0.7)	—	—	(1.3)	—							
Accumulated other comprehensive loss - Pre-tax		\$ 85.2	\$ 29.2	\$ 11.9	\$ 36.2	\$ 3.1	\$ 4.8							
Amounts recognized in the Consolidated Balance Sheets consist of:														
Prepaid benefit cost		\$ 39.9	\$ 2.7	\$ —	\$ 31.1	\$ 2.0	\$ 4.1							
Accrued benefit liability		(78.3)	(35.5)	(39.3)	—	—	(3.5)							
Accumulated other comprehensive loss - Pre-tax		85.2	29.2	11.9	36.2	3.1	4.8							
Net amount recognized		\$ 46.8	\$ (3.6)	\$ (27.4)	\$ 67.3	\$ 5.1	\$ 5.4							
<i>(in millions)</i>		<b>(in millions)</b>			<b>October 31, 2022</b>	<b>October 31, 2021</b>	<b>(in millions)</b>	<b>October 31, 2023</b>	<b>October 31, 2022</b>					
Accumulated other comprehensive loss at beginning of year	Accumulated other comprehensive loss at beginning of year	\$ 85.2		\$ 150.6			Accumulated other comprehensive loss at beginning of year	\$ 92.0		\$ 85.2				
Increase or (decrease) in accumulated other comprehensive loss	Increase or (decrease) in accumulated other comprehensive loss						Increase or (decrease) in accumulated other comprehensive loss							
Net prior service benefit amortized	Net prior service benefit amortized	0.4		0.3			Net prior service benefit amortized	0.4		0.4				
Net loss amortized		(7.7)		(12.6)			Net gain (loss) amortized	2.1		(7.7)				
Loss recognized due to settlement	Loss recognized due to settlement	—		(9.1)			Loss recognized due to settlement	(3.5)		—				
Loss recognized due to divestiture	Loss recognized due to divestiture	(1.0)		—			Loss recognized due to divestiture	—		(1.0)				
Liability loss		(265.9)		0.3										
Asset loss (gain)		290.8		(45.3)										
Liability gain							Liability gain	(24.3)		(265.9)				

Asset loss			Asset loss	39.9	290.8
Other adjustments	Other adjustments	(0.5)	Other adjustments	—	(0.5)
Increase (decrease) in accumulated other comprehensive loss		16.1	Increase in accumulated other comprehensive loss	14.6	16.1
Foreign currency impact	Foreign currency impact	(9.3)	Foreign currency impact	2.6	(9.3)
Accumulated other comprehensive loss at year end	Accumulated other comprehensive loss at year end	\$ 92.0	Accumulated other comprehensive loss at year end	\$ 109.2	\$ 92.0

#### **Supplemental Employee Retirement Plan**

The Company has a supplemental employee retirement plan which is an unfunded plan providing supplementary retirement benefits primarily to certain executives and longer-service employees. The present benefit obligation of the supplemental employee retirement plan is included in the United States defined benefit pension plans above.

#### **Defined contribution plans**

The Company has several voluntary 401(k) savings plans that cover eligible employees in the U.S. For certain plans, the Company matches a percentage of each employee's contribution up to a maximum percentage of base salary. The Company's contributions to the 401(k) plans were \$24.4 million \$29.1 million, \$24.4 million and \$21.9 million in 2023, 2022 and \$25.2 million in 2022, 2021, and 2020, respectively.

#### **NOTE 10 – CONTINGENT LIABILITIES AND ENVIRONMENTAL RESERVES**

##### **Litigation-related Liabilities**

The Company may become involved from time-to-time in litigation and regulatory matters incidental to its business, including governmental investigations, enforcement actions, personal injury claims, product liability, employment health and safety matters, commercial disputes, intellectual property matters, disputes regarding environmental clean-up costs, litigation in connection with acquisitions and divestitures, and other matters arising out of the normal conduct of its business. The Company intends to vigorously defend itself in such litigation. The Company does not believe that the outcome of any pending litigation will have a material adverse effect on its consolidated financial statements.

The Company will accrue for contingencies related to litigation and regulatory matters if it is probable that a liability has been incurred and the amount of the loss can be reasonably estimated. Because litigation is inherently unpredictable and unfavorable resolutions can occur, assessing contingencies is highly subjective and requires judgments about future events. The Company regularly reviews contingencies to determine whether its accruals are adequate. The amount of ultimate loss may differ from these estimates.

**Since 2017, two reconditioning facilities in the Milwaukee, Wisconsin area that are or were owned by Container Life Cycle Management LLC ("CLCM"), the Company's U.S. reconditioning joint venture, have been subject to investigations conducted by federal, state and local governmental agencies concerning, among other matters, potential violations of environmental laws and regulations. As a result of these investigations, the United States Environmental Protection Agency ("U.S. EPA") and the Wisconsin Department of Natural Resources ("WDNR") have issued notices of violations to the Company and CLCM regarding alleged violations of certain federal and state environmental laws and regulations. The U.S. EPA and the WDNR have rescinded the notices of violations relating to the Company and have reached agreement with CLCM on a proposed consent decree that would resolve these investigations and proceedings against CLCM (the "Proposed CLCM Consent Decree"). On November 30, 2022, the U.S. EPA and the WDNR filed an action in the U.S. District Court, Eastern District of Wisconsin, seeking the Court's approval of the Proposed CLCM Consent Decree. Under the Proposed CLCM Consent Decree, CLCM, without admitting any wrongdoing, has agreed to modify certain existing operational practices, install and operate specific environmental controls and pay civil penalties of approximately \$1.6 million. The Proposed CLCM Consent Decree is not final and effective unless and until approved by the Court.**

##### **Environmental Reserves**

As of October 31, 2022 October 31, 2023 and October 31, 2021 October 31, 2022, the Company has accrued \$9.8 million and \$11.0 million, respectively, \$9.8 million for the Diamond Alkali Superfund Site. It is possible that there could be resolution of uncertainties in the future that would require the Company to record charges, which could be material to future earnings.

Aside from the Diamond Alkali Superfund Site, other environmental reserves of the Company as of October 31, 2023 and October 31, 2022 and October 31, 2021 included \$9.2 \$7.5 million and \$8.5 \$9.2 million, respectively, for its various facilities around the world.

As of October 31, 2022 October 31, 2023 and October 31, 2021 October 31, 2022, the Company's environmental reserves were \$19.0 \$17.3 million and \$19.5 million \$19.0 million, respectively. These reserves are principally based on environmental studies and cost estimates provided by third parties, but also take into account management estimates. The estimated liabilities are reduced to reflect the anticipated participation of other potentially responsible parties in those instances where it is probable that such parties are legally responsible and financially capable of paying their respective shares of relevant costs. For sites that involve formal actions subject to joint and several liabilities, these actions have formal agreements in place to apportion the liability.

#### **NOTE 11 – EARNINGS PER SHARE**

The Company has two classes of common stock and, as such, applies the "two-class method" of computing earnings per share ("EPS") as prescribed in ASC 260, "Earnings Per Share." In accordance with this guidance, earnings are allocated in the same fashion as dividends would be distributed. Under the Company's certificate of incorporation, any distribution of dividends in any year must be made in proportion of one cent a share for Class A Common Stock to one and one-half cents a share for Class B Common Stock, which results in a 40% to 60% split to Class A and B shareholders, respectively. In accordance with this,

earnings are allocated first to Class A and Class B Common Stock to the extent that dividends are actually paid, and the remainder is allocated assuming all of the earnings for the period have been distributed in the form of dividends.

The Company calculates EPS as follows:

Basic Class A EPS	=	$\frac{40\% * \text{Average Class A Shares Outstanding}}{40\% * \text{Average Class A Shares Outstanding} + 60\% * \text{Average Class B Shares Outstanding}} * \frac{\text{Undistributed Net Income}}{\text{Average Class A Shares Outstanding}} + \text{Class A Dividends Per Share}$
Diluted Class A EPS	=	$\frac{40\% * \text{Average Class A Shares Outstanding}}{40\% * \text{Average Class A Shares Outstanding} + 60\% * \text{Average Class B Shares Outstanding}} * \frac{\text{Undistributed Net Income}}{\text{Average Diluted Class A Shares Outstanding}} + \text{Class A Dividends Per Share}$
Basic Class B EPS	=	$\frac{60\% * \text{Average Class B Shares Outstanding}}{40\% * \text{Average Class A Shares Outstanding} + 60\% * \text{Average Class B Shares Outstanding}} * \frac{\text{Undistributed Net Income}}{\text{Average Class B Shares Outstanding}} + \text{Class B Dividends Per Share}$

\* Diluted Class B EPS calculation is identical to Basic Class B calculation

The following table provides EPS information for each period, respectively:

(in millions, except per share data)	(in millions, except per share data)	Year Ended October 31,			Year Ended October 31,		
		2022	2021	2020	2023	2022	2021
<b>Numerator</b>	<b>Numerator</b>				<b>Numerator</b>		
Numerator for basic and diluted EPS	Numerator for basic and diluted EPS				Numerator for basic and diluted EPS		
Net income attributable to Greif, Inc.	Net income attributable to Greif, Inc.	\$ 376.7	\$ 390.7	\$ 108.8	Net income attributable to Greif, Inc.	\$ 359.2	\$ 376.7
Cash dividends	Cash dividends	(111.3)	(105.8)	(104.3)	Cash dividends	(116.5)	(111.3)
Undistributed net income attributable to Greif, Inc.	Undistributed net income attributable to Greif, Inc.	\$ 265.4	\$ 284.9	\$ 4.5	Undistributed net income attributable to Greif, Inc.	\$ 242.7	\$ 265.4
<b>Denominator</b>	<b>Denominator</b>				<b>Denominator</b>		
Denominator for basic EPS –	Denominator for basic EPS –				Denominator for basic EPS –		
Class A common stock	Class A common stock	26.3	26.5	26.4	Class A common stock	25.6	26.3
Class B common stock	Class B common stock	22.0	22.0	22.0	Class B common stock	21.5	22.0
Denominator for diluted EPS –	Denominator for diluted EPS –				Denominator for diluted EPS –		
Class A common stock	Class A common stock	26.6	26.7	26.4	Class A common stock	26.0	26.6

Class B common stock	Class B common stock	22.0	22.0	22.0	Class B common stock	21.5	22.0	22.0
<b>EPS Basic</b>	<b>EPS Basic</b>				<b>EPS Basic</b>			
Class A common stock	Class A common stock	\$ 6.36	\$ 6.57	\$ 1.83	Class A common stock	\$ 6.22	\$ 6.36	\$ 6.57
Class B common stock	Class B common stock	\$ 9.53	\$ 9.84	\$ 2.74	Class B common stock	\$ 9.32	\$ 9.53	\$ 9.84
<b>EPS Diluted</b>	<b>EPS Diluted</b>				<b>EPS Diluted</b>			
Class A common stock	Class A common stock	\$ 6.30	\$ 6.54	\$ 1.83	Class A common stock	\$ 6.15	\$ 6.30	\$ 6.54
Class B common stock	Class B common stock	\$ 9.53	\$ 9.84	\$ 2.74	Class B common stock	\$ 9.32	\$ 9.53	\$ 9.84

The Class A Common Stock has no voting rights unless four quarterly cumulative dividends upon the Class A Common Stock are in arrears. The Class B Common Stock has full voting rights. There is no cumulative voting for the election of directors.

### Common Stock Repurchases

In June 2022, the Stock Repurchase Committee of the Company's Board of Directors authorized a program to repurchase up to \$150.0 million of shares of the Company's Class A or Class B Common Stock or any combination thereof. On June 23, 2022, the Company entered into a \$75.0 million accelerated share repurchase agreement ("ASR" ("ASR")) with Bank of America, N.A. for the repurchase of shares of the Company's Class A Common Stock. In addition, at that time the Company plans initiated a plan to repurchase an aggregate of \$75.0 million of shares of its Class A or Class B Common Stock, or any combination thereof, in open market purchases ("OSR program" program).

Under the ASR, on June 24, 2022, the Company made a payment of \$75.0 million and received an initial delivery of approximately 80% of the expected share repurchases, or 1,021,451 shares of Class A Common Stock, with any Stock. On February 28, 2023, the Company received the remaining shares expected to be delivered by the Company's second quarter 2023. The ASR has been accounted for as a purchase of 94,259 shares of Class A Common Stock and a forward purchase contract. The final number of shares of Class A Common Stock to be repurchased will be based on the volume-weighted average price of the shares of the Company's Class A Common Stock during the term of the ASR less a discount. The Company has treated the shares of Class A Common Stock delivered as treasury shares as of the date the shares were physically delivered in computing the weighted average shares outstanding of Class A Common Stock for both basic and diluted earnings per share. The forward stock purchase contract was determined to be indexed to the Company's own stock and met all of the applicable criteria for equity classification. Stock.

The Company began making repurchases of Class B Common Stock under the OSR program on September 9, 2022, and repurchases of Class A Common Stock under the Company may continue to make open market repurchases over the next 12 to 18 months under this OSR program all on March 16, 2023 in accordance with Rule 10b-18 promulgated under the Securities Exchange Act of 1934. The timing of any such repurchases will depend OSR program was completed on market conditions and will be made at the Company's discretion. While the Company intends to repurchase up to \$75.0 million of shares it is not obligated to repurchase any dollar amount of Class A Common Stock, or number or class of 406,343 shares, and may suspend or discontinue repurchases at any time. As \$50.0 million of October 31, 2022, 170,980 shares of Class B Common Stock, had been or 676,598 shares, being repurchased under the OSR program.

The following table summarizes the Company's Class A and Class B common and treasury shares at the specified dates:

Outstanding				Outstanding						
	Authorized Shares	Issued Shares	Shares	Treasury Shares		Authorized Shares	Issued Shares	Shares	Treasury Shares	
October 31, 2023:					October 31, 2023:					
Class A common stock					Class A common stock	128,000,000	42,281,920	25,474,254	16,807,666	
Class B common stock					Class B common stock	69,120,000	34,560,000	21,331,127	13,228,873	
October 31, 2022:	October 31, 2022:				October 31, 2022:					
Class A common stock	Class A common stock	128,000,000	42,281,920	25,606,287	16,675,633	Class A common stock	128,000,000	42,281,920	25,606,287	16,675,633
Class B common stock	Class B common stock	69,120,000	34,560,000	21,836,745	12,723,255	Class B common stock	69,120,000	34,560,000	21,836,745	12,723,255
October 31, 2021:										

Class A common stock	128,000,000	42,281,920	26,550,924	15,730,996
Class B common stock	69,120,000	34,560,000	22,007,725	12,552,275

The following is a reconciliation of the shares used to calculate basic and diluted earnings per share:

	Year Ended October 31,		
	2022	2021	2020
<b>Class A Common Stock:</b>			
Basic shares	26,251,536	26,525,529	26,382,838
Assumed conversion of stock options and unvested shares	359,176	133,692	7,805
Diluted shares	26,610,712	26,659,221	26,390,643
<b>Class B Common Stock:</b>			
Basic and diluted shares	21,995,865	22,007,725	22,007,725

No stock options were antidilutive for the years ended October 31, 2022, 2021, or 2020.

	Year Ended October 31,		
	2023	2022	2021
<b>Class A Common Stock:</b>			
Basic shares	25,592,928	26,251,536	26,525,529
Assumed conversion of stock options and unvested shares	406,303	359,176	133,692
Diluted shares	25,999,231	26,610,712	26,659,221
<b>Class B Common Stock:</b>			
Basic and diluted shares	21,472,531	21,995,865	22,007,725

#### **NOTE 12 – LEASES**

The Company leases certain buildings, warehouses, land, transportation equipment, operating equipment and office equipment with remaining lease terms from less than 1 year up to **2019** years. The Company reviews all options to extend, terminate, or purchase a right of use asset at the time of lease inception and accounts for options deemed reasonably certain.

The Company combines lease and non-lease components for all leases, except real estate, for which these components are presented separately. Leases with an initial term of twelve months or less are not capitalized and are recognized on a straight-line basis over the lease term. The implicit rate is not readily determinable for substantially all of the **Company's** leases, therefore the initial present value of lease payments is calculated utilizing an estimated incremental borrowing rate determined at the portfolio level based on market and Company specific information.

Certain of the Company's leases include variable costs. As the right of use asset recorded on the balance sheet was determined based upon factors considered at the commencement date, changes in these variable expenses are not capitalized and are expensed as incurred throughout the lease term.

As of **October 31, 2022** **October 31, 2023**, the Company had no significant leases that had not commenced.

The following table presents the lease expense components:

(in millions)	Year Ended	
	October 31, 2022	October 31, 2021
Operating lease cost	\$ 64.6	\$ 70.4
Other lease cost	24.6	24.0
<b>Total lease cost</b>	<b>\$ 89.2</b>	<b>\$ 94.4</b>

<sup>1</sup>Amount includes variable, short-term and finance lease costs.

(in millions)	Year Ended	
	October 31, 2023	October 31, 2022

Operating lease cost	\$	64.4	\$	64.6
Finance lease cost - amortization		4.8		1.3
Finance lease cost - interest		2.4		0.1
Other lease cost*		28.0		23.2
Total lease cost	\$	99.6	\$	89.2

\*includes variable and short-term lease costs

Future maturity for the Company's lease liabilities, during the next five years, and in the aggregate for the years thereafter, are as follows:

(in millions)	(in millions)	October 31, 2022	(in millions)	Operating Leases		Finance Leases		Total expected payments	
2023		56.9							
2024	2024	53.8	2024	\$	64.8	\$	6.7	\$	71.5
2025	2025	44.9	2025		58.2		6.4		64.6
2026	2026	39.3	2026		49.2		6.3		55.5
2027	2027	31.5	2027		40.1		6.1		46.2
2028			2028		32.0		6.1		38.1
Thereafter	Thereafter	108.3	Thereafter		106.4		18.4		124.8
Total lease payments	Total lease payments	334.7	Total lease payments	\$	350.7	\$	50.0	\$	400.7
Less: Interest		(76.4)	Less: interest		(56.7)		(18.7)		(75.4)
Lease liabilities	Lease liabilities	\$ 258.3	Lease liabilities	\$	294.0	\$	31.3	\$	325.3

The following table presents the weighted-average lease term and discount rate as of October 31, 2022 October 31, 2023 and October 31, 2021 October 31, 2022:

	October 31, 2022	October 31, 2021
Weighted-average remaining lease term (years) for operating lease liabilities	9.9	10.3
Weighted-average discount rate for operating lease liabilities	3.77 %	3.61 %

	October 31, 2023	October 31, 2022
Weighted-average remaining lease term (years):		
Operating leases	9.1	9.9
Finance leases	7.9	2.6
Weighted-average discount rate:		
Operating leases	4.50 %	3.77 %
Finance leases	6.18 %	3.34 %

The following table presents other required lease related information:

(in millions)	(in millions)	October 31, 2022	October 31, 2021	(in millions)	October 31, 2023	October 31, 2022
Operating cash flows used for operating leases	\$	63.2	\$	70.2		
Cash paid for amounts included in the measurement of lease liabilities:				Cash paid for amounts included in the measurement of lease liabilities:		
Operating cash flows used for operating liabilities				Operating cash flows used for operating liabilities	\$	64.3
Financing cash flows used for finance leases				Financing cash flows used for finance leases	\$	4.5
						63.2
						1.2

Leased assets obtained in exchange for new lease liabilities:	Leased assets obtained in exchange for new lease liabilities	22.3	Leased assets obtained in exchange for new lease liabilities:	Leased assets obtained in exchange for new operating lease liabilities	95.0	22.3
Leased assets obtained in exchange for new finance lease liabilities			Leased assets obtained in exchange for new finance lease liabilities		42.0	0.4

#### **NOTE 13 – BUSINESS SEGMENT INFORMATION**

The Company has six operating segments, which are aggregated into three reportable segments: Global Industrial Packaging; Paper Packaging & Services; and Land Management. The Global Industrial Packaging reportable segment is the aggregation of four operating segments: Global Industrial Packaging – North America; Global Industrial Packaging – Latin America; Global Industrial Packaging – Europe, Middle East and Africa; and Global Industrial Packaging – Asia Pacific.

Operations in the Global Industrial Packaging reportable segment involve the production and sale of rigid industrial packaging products, such as steel, fibre and plastic drums, rigid intermediate bulk containers, jerrycans and other small plastics, closure systems for industrial packaging products, transit protection products, water bottles and remanufactured and reconditioned industrial containers, and services, such as container life cycle management, filling, logistics, warehousing and other packaging services. These products and services are sold to customers in industries such as chemicals, paints and pigments, food and beverage, petroleum, industrial coatings, agriculture, pharmaceuticals and mineral products, among others.

On October 1, 2023, the Company completed the Reliance Acquisition. Reliance is a leading producer of high-performance barrier and conventional blow molded jerrycans and small plastics containers in Canada. The results of Reliance are recorded within the Global Industrial Packaging segment.

On March 31, 2023, the Company completed the Centurion Acquisition. Centurion is a leader in the North American IBC reconditioning industry involved in IBC rebottling, reconditioning and distribution, which complement the Company's Global Industrial Packaging specialty portfolio. The results of Centurion are recorded within the Global Industrial Packaging segment.

On December 15, 2022, the Company completed the Lee Container Acquisition. Lee Container is an industry-leading manufacturer of high-performance barrier and conventional blow molded containers, jerrycans and small plastics, which complement the Company's Global Industrial Packaging specialty portfolio. The results of Lee Container are recorded within the Global Industrial Packaging segment.

Operations in the Paper Packaging & Services reportable segment involve the production and sale of containerboard, corrugated sheets, corrugated containers and other corrugated and specialty products to customers in North America in industries such as packaging, automotive, food and building products. The Company's corrugated container products are used to ship such diverse products as home appliances, small machinery, grocery products, automotive components, books and furniture, as well as numerous other applications. The Company also produces and sells coated and uncoated recycled paperboard, along with tubes and cores and a diverse mix of specialty products to customers in North America. Further, the Company produces and sells bulk and specialty partitions made from both containerboard and uncoated recycled paperboard. In addition, the reportable segment is involved in the purchase and sale of recycled fiber.

On August 23, 2023, the Company completed the ColePak Acquisition. ColePak is a manufacturer of bulk and specialty partitions made from both containerboard and uncoated recycled board and is the second largest supplier of paper partitions in North America. The results of ColePak are recorded within the Paper Packaging & Services segment.

Operations in the Land Management reportable segment involve the management and sale of timber and special use properties from approximately 175,000 acres of timber properties in the southeastern United States. Land Management's operations focus on the active harvesting and regeneration of its timber properties to achieve sustainable long-term yields. While timber sales are subject to fluctuations, the Company seeks to maintain a consistent cutting schedule, within the limits of market and weather conditions. The Company also sells, from time to time, timberland and special use properties, which consists of surplus properties, higher and better use ("HBU" ("HBU") properties and development properties.

In order to maximize the value of timber property, the Company continues to review its current portfolio and explore the development of certain of these properties. This process has led the Company to characterize property as follows:

- Surplus property, meaning land that cannot be efficiently or effectively managed by the Company, whether due to parcel size, lack of productivity, location, access limitations or for other reasons.
- HBU property, meaning land that in its current state has a higher market value for uses other than growing and selling timber.
- Development property, meaning HBU land that, with additional investment, may have a significantly higher market value than its HBU market value.
- Timberland, meaning land that is best suited for growing and selling timber.

The disposal of surplus and HBU property is reported in the consolidated statements of income under "gain on disposals of properties, plants and equipment, net" and the sale of development property is reported under "net sales" and "cost of products sold." All HBU, development and surplus property is used by the Company to productively grow and sell timber until sold.

Whether timberland has a higher value for uses other than growing and selling timber is a determination based upon several variables, such as proximity to population centers, anticipated population growth in the area, the topography of the land, aesthetic considerations, including access to water, the condition of the surrounding land, availability of utilities, markets for timber and economic considerations both nationally and locally. Given these considerations, the characterization of land is not a static process, but requires an ongoing review and re-characterization as circumstances change.

The following tables present net sales disaggregated by geographic area for each reportable segment for the year ended **October 31, 2022** **October 31, 2023**:

Year Ended October 31, 2022										Year Ended October 31, 2023									
(in millions)	(in millions)	Asia Pacific					(in millions)	Asia Pacific					United States	Europe, Middle East and Africa	Americas	Total			
		United States	Europe, Middle East and Africa	Americas	Total	United States	Europe, Middle East and Africa	Americas	Total										
Global Industrial Packaging	Global Industrial Packaging	\$ 1,287.1	\$ 1,700.7	\$ 664.6	\$ 3,652.4	Global Industrial Packaging	\$ 1,093.0	\$ 1,310.9	\$ 532.9	\$ 2,936.8									
Paper Packaging & Services	Paper Packaging & Services	2,630.8	—	44.3	2,675.1	Paper Packaging & Services	2,218.0	—	42.5	2,260.5									
Land Management	Land Management	22.0	—	—	22.0	Land Management	21.3	—	—	21.3									
Total net sales	Total net sales	\$ 3,939.9	\$ 1,700.7	\$ 708.9	\$ 6,349.5	Total net sales	\$ 3,332.3	\$ 1,310.9	\$ 575.4	\$ 5,218.6									

The following tables present net sales disaggregated by geographic area for each reportable segment for the year ended **October 31, 2021** **October 31, 2022**:

Year Ended October 31, 2021										Year Ended October 31, 2022									
(in millions)	(in millions)	Asia Pacific					(in millions)	Asia Pacific					United States	Europe, Middle East and Africa	Americas	Total			
		United States	Europe, Middle East and Africa	Americas	Total	United States	Europe, Middle East and Africa	Americas	Total										
Global Industrial Packaging	Global Industrial Packaging	\$ 1,044.5	\$ 1,673.9	\$ 598.3	\$ 3,316.7	Global Industrial Packaging	\$ 1,287.1	\$ 1,700.7	\$ 664.6	\$ 3,652.4									
Paper Packaging & Services	Paper Packaging & Services	2,182.0	—	36.4	2,218.4	Paper Packaging & Services	2,218.0	—	44.3	2,260.5									
Land Management	Land Management	21.0	—	—	21.0	Land Management	22.0	—	—	22.0									
Total net sales	Total net sales	\$ 3,247.5	\$ 1,673.9	\$ 634.7	\$ 5,556.1	Total net sales	\$ 3,939.9	\$ 1,700.7	\$ 708.9	\$ 6,349.5									

The following reportable segment information is presented for each of the three years in the period ended October 31:

(in millions)	(in millions)	2022	2021	2020	(in millions)	2023	2022	2021
<b>Operating profit:</b>	<b>Operating profit:</b>				<b>Operating profit:</b>			
Global Industrial Packaging	Global Industrial Packaging	\$ 313.7	\$ 350.2	\$ 225.4	Global Industrial Packaging	\$ 334.3	\$ 313.7	\$ 350.2
Paper Packaging & Services	Paper Packaging & Services	298.5	131.0	71.0	Paper Packaging & Services	264.1	298.5	131.0
Land Management	Land Management	9.0	104.0	8.5	Land Management	7.1	9.0	104.0
Total operating profit	Total operating profit	\$ 621.2	\$ 585.2	\$ 304.9	Total operating profit	\$ 605.5	\$ 621.2	\$ 585.2
Depreciation, depletion and amortization expense:	Depreciation, depletion and amortization expense:				Depreciation, depletion and amortization expense:			

Global Industrial Packaging	Global Industrial Packaging	\$ 73.9	\$ 83.1	\$ 84.5	Global Industrial Packaging	\$ 95.3	\$ 73.9	\$ 83.1
Paper Packaging & Services	Paper Packaging & Services	139.9	148.0	153.5	Paper Packaging & Services	133.1	139.9	148.0
Land Management	Land Management	2.8	3.3	4.5	Land Management	2.2	2.8	3.3
Total depreciation, depletion and amortization expense	Total depreciation, depletion and amortization expense	\$ 216.6	\$ 234.4	\$ 242.5	Total depreciation, depletion and amortization expense	\$ 230.6	\$ 216.6	\$ 234.4
<b>Capital expenditures:</b>	<b>Capital expenditures:</b>				<b>Capital expenditures:</b>			
Global Industrial Packaging	Global Industrial Packaging	\$ 55.1	\$ 71.1	\$ 55.8	Global Industrial Packaging	\$ 83.9	\$ 55.1	\$ 71.1
Paper Packaging & Services	Paper Packaging & Services	90.6	79.9	61.4	Paper Packaging & Services	120.6	90.6	79.9
Land Management	Land Management	—	0.2	0.2	Land Management	1.1	—	0.2
Total segment	Total segment	145.7	151.2	117.4	Total segment	205.6	145.7	151.2
Corporate and other	Corporate and other	16.2	11.0	12.6	Corporate and other	12.6	16.2	11.0
Total capital expenditures	Total capital expenditures	\$ 161.9	\$ 162.2	\$ 130.0	Total capital expenditures	\$ 218.2	\$ 161.9	\$ 162.2

The following table presents total assets by reportable segment and total long lived assets, net by geographic area:

(in millions)	(in millions)	October 31, 2022	October 31, 2021	October 31, 2020	(in millions)	October 31, 2023	October 31, 2022
<b>Assets:</b>	<b>Assets:</b>				<b>Assets:</b>		
Global Industrial Packaging	Global Industrial Packaging	\$ 2,308.4	\$ 2,735.1	\$ 2,338.5	Global Industrial Packaging	\$ 2,737.5	\$ 2,308.4
Paper Packaging & Services	Paper Packaging & Services	2,473.9	2,506.5	2,524.3	Paper Packaging & Services	2,541.1	2,473.9
Land Management	Land Management	250.0	249.2	348.6	Land Management	253.2	250.0
Total segment	Total segment	5,032.3	5,490.8	5,211.4	Total segment	5,531.8	5,032.3
Corporate and other	Corporate and other	437.6	325.0	299.5	Corporate and other	429.0	437.6
Total assets	Total assets	\$ 5,469.9	\$ 5,815.8	\$ 5,510.9	Total assets	\$ 5,960.8	\$ 5,469.9
<b>Long lived assets, net*:</b>	<b>Long lived assets, net*:</b>				<b>Long lived assets, net*:</b>		
United States	United States	\$ 1,314.7	\$ 1,321.8	\$ 1,345.8	United States	\$ 1,468.6	\$ 1,314.7
Europe, Middle East, and Africa		303.7	374.5	377.6	Europe, Middle East and Africa	311.9	303.7
Europe, Middle East and Africa							
Asia Pacific and other Americas	Asia Pacific and other Americas	91.3	114.3	111.0	Asia Pacific and other Americas	102.9	91.3
Total properties, plants and equipment, net	Total properties, plants and equipment, net	\$ 1,709.7	\$ 1,810.6	\$ 1,834.4	Total properties, plants and equipment, net	\$ 1,883.4	\$ 1,709.7

\*includes impact of capitalization of operating lease assets

\*includes property,  
plants and equipment,  
net, operating lease  
assets and finance  
lease assets

\*includes property,  
plants and equipment,  
net, operating lease  
assets and finance  
lease assets

#### NOTE 14 – COMPREHENSIVE INCOME (LOSS)

The following table provides the roll forward of accumulated other comprehensive income (loss) for the years ended **October 31, 2022**, **October 31, 2023** and **2021**: **2022**:

(in millions)	(in millions)	Accumulated				(in millions)	Accumulated			
		Foreign Currency	Derivative	Minimum	Other		Foreign Currency	Derivative	Minimum	Other
		Translation	Instruments	Adjustment	Comprehensive Income (Loss)		Translation	Instruments	Adjustment	Comprehensive Income (Loss)
<b>Balance as of October 31, 2020</b>		\$ (294.9)	\$ (24.7)	\$ (107.9)	\$ (427.5)					
Other Comprehensive Income (Loss)		\$ (0.5)	\$ 21.1	\$ 50.4	\$ 71.0					
<b>Balance as of October 31, 2021</b>	<b>Balance as of October 31, 2021</b>	\$ (295.4)	\$ (3.6)	\$ (57.5)	\$ (356.5)	<b>Balance as of October 31, 2021</b>	\$ (295.4)	\$ (3.6)	\$ (57.5)	\$ (356.5)
Other Comprehensive Income (Loss)	Other Comprehensive Income (Loss)	(134.2)	76.4	(1.1)	(58.9)	Other Comprehensive Income (Loss)	\$ (134.2)	\$ 76.4	\$ (1.1)	\$ (58.9)
Foreign Currency Translation Released from Business Divestment	Foreign Currency Translation Released from Business Divestment	113.1	—	—	\$ 113.1	Foreign Currency Translation Released from Business Divestment	\$ 113.1	\$ —	\$ —	\$ 113.1
<b>Balance as of October 31, 2022</b>	<b>Balance as of October 31, 2022</b>	\$ (316.5)	\$ 72.8	\$ (58.6)	\$ (302.3)	<b>Balance as of October 31, 2022</b>	\$ (316.5)	\$ 72.8	\$ (58.6)	\$ (302.3)
Other Comprehensive Income (Loss)	Other Comprehensive Income (Loss)					Other Comprehensive Income (Loss)	(1.2)	(1.1)	(11.9)	(14.2)
<b>Balance as of October 31, 2023</b>						<b>Balance as of October 31, 2023</b>	\$ (317.7)	\$ 71.7	\$ (70.5)	\$ (316.5)

The components of accumulated other comprehensive income above are presented net of tax, as applicable.

#### NOTE 15 – REDEEMABLE NONCONTROLLING INTERESTS

##### Mandatorily Redeemable Noncontrolling Interests

The terms of the joint venture agreement for one joint venture within the Global Industrial Packaging reportable segment include mandatory redemption by the Company, in cash, of the noncontrolling interest holders' equity at a formulaic price after the expiration of a lockout period specific to each noncontrolling interest holder. The redemption features cause the noncontrolling interest to be classified as a mandatorily redeemable instrument under the accounting guidance, and this noncontrolling interest is included at the current redemption value each period in long-term or short-term liabilities of the Company, as applicable. The impact of marking to redemption value at each period end is recorded in interest expense. The carrying amount is not reduced below the initially recorded contribution. The Company has a contractual obligation to redeem the outstanding equity interest the remaining partner in 2023.

The mandatorily redeemable noncontrolling interest balance is \$3.4 million as of October 31, 2022 and \$8.4 million as of October 31, 2021.

##### Redeemable Noncontrolling Interests

Redeemable noncontrolling interests related to two joint ventures within the Paper Packaging & Services reportable segment and one joint venture within the Global Industrial Packaging reportable segment are held by the respective noncontrolling interest owners. The holders of these interests share in the profits and losses of these entities on a pro-rata basis with the Company. However, the noncontrolling interest owners have the right to put all or a portion of those noncontrolling interests to the Company at a formulaic price after a set period of time, specific to each agreement.

Redeemable noncontrolling interests are reflected in the consolidated balance sheets at redemption value. The following table provides the rollforward of the redeemable noncontrolling interest for the years ended **October 31, 2022**, **October 31, 2023** and **2021**:

(in millions)	Redeemable Noncontrolling Interest
<b>Balance as of October 31, 2020</b>	<b>20.0</b>
Current period mark to redemption value	2.6
Redeemable noncontrolling interest share of income	2.4
Dividends to redeemable noncontrolling interest and other	(0.9)
<b>Balance as of October 31, 2021</b>	<b>24.1</b>
Current period mark to redemption value	(5.5)
Repurchase of redeemable shareholder interest	(1.9)
Redeemable noncontrolling interest share of income	0.1
Dividends to redeemable noncontrolling interest and other	(1.0)
<b>Balance as of October 31, 2022</b>	<b>15.8</b>
Current period mark to redemption value	(0.1)
Repurchase of redeemable shareholder interest	(4.6)
Acquisition of redeemable shareholder interest	113.0
Redeemable noncontrolling interest share of income	2.7
Dividends to redeemable noncontrolling interest and other	(1.5)
<b>Balance as of October 31, 2023</b>	<b>\$ 15.8 125.3</b>

#### NOTE 16 — SUBSEQUENT EVENTS

On **November 9, 2022** **November 17, 2023**, two of the **Company** **Company's** subsidiaries entered into a definitive **sale and purchase** agreement (the "SPA") with the owners of the parent of Ipackchem Group SAS ("Ipackchem") pursuant to which the Company is to acquire **Lee Container Corporation, Inc.** ("Lee Container"), an industry-leading manufacturer of high-performance barrier and conventional blow molded containers, Ipackchem for a purchase price valued at approximately \$538.0 million, translated based on a 1.05/1.00 Euro to United States dollar exchange rate as of \$300.0 million in cash, **October 18, 2023**, subject to customary closing certain adjustments. The Company plans to use its existing credit facilities to finance its proposed acquisition of Ipackchem. The acquisition is subject to the satisfaction or waiver of certain conditions, including, among other matters, receipt of certain government and regulatory clearances.

On December 15, 2022, approvals in France, South Africa and Brazil, as well as Ipackchem's disposition of certain immaterial assets. The SPA may be terminated, and the acquisition may be abandoned at any time prior to the closing, as follows: (i) by mutual written agreement of the Company completed the Lee Container acquisition. The all-cash transaction was funded through Greif's existing credit facility. Due to the limited time since and Ipackchem's parent; (ii) by either the Company has completed or Ipackchem's parent if the acquisition, conditions set forth in the SPA have not been fulfilled on or before October 31, 2024 (subject to a 20 days extension option by either party); (iii) by Ipackchem's parent if the Company has fails to comply with its obligation to make certain closing date deliveries or by the Company if Ipackchem's parent fails to comply with its obligation to make certain closing date deliveries; and (iv) the Company if Ipackchem's disposition of certain immaterial assets is not yet completed the initial acquisition accounting for the transaction, including the determination of the fair values of the assets acquired and the liabilities assumed. The Company anticipates completing the preliminary purchase price allocation in the first fiscal quarter of 2023, which would then be reflected in the Company's January 31, 2023 financial statements. The results of operations of the acquired business will be included in the Company's results from December 15, 2022, the date of the closing of the acquisition.

within six or nine months after October 31, 2023.

#### **Report of Independent Registered Public Accounting Firm**

To the Shareholders and Board of Directors of Greif, Inc. and subsidiary companies

#### **Opinion on the Financial Statements**

We have audited the accompanying consolidated balance sheets of Greif, Inc. and subsidiary companies (the "Company") as of **October 31, 2022**, **October 31, 2023** and **2021**, and the related consolidated statements of income, comprehensive income, (loss), changes in shareholders' equity, and cash flows for each of the three years in the period ended **October 31, 2022**, **October 31, 2023**, and the related notes and the financial statement schedule listed in the Index at Item 15 (collectively referred to as the "financial statements"). In our opinion, the financial statements present fairly, in all material respects, the consolidated financial position of the Company as of **October 31, 2022**, **October 31, 2023** and **2021**, and the results of its operations and its cash flows for each of the three years in the period ended **October 31, 2022**, **October 31, 2023**, in conformity with accounting principles generally accepted in the United States of America.

We have also audited, in accordance with the standards of the Public Company Accounting Oversight Board (United States) (PCAOB), the Company's internal control over financial reporting as of **October 31, 2022**, **October 31, 2023**, based on criteria established in *Internal Control—Integrated Framework* (2013) issued by the Committee of Sponsoring

Organizations of the Treadway Commission and our report dated December 16, 2022 December 18, 2023, expressed an unqualified opinion on the Company's internal control over financial reporting.

#### Basis for Opinion

These financial statements are the responsibility of the Company's management. Our responsibility is to express an opinion on the Company's financial statements based on our audits. We are a public accounting firm registered with the PCAOB and are required to be independent with respect to the Company in accordance with the U.S. federal securities laws and the applicable rules and regulations of the Securities and Exchange Commission and the PCAOB.

We conducted our audits in accordance with the standards of the PCAOB. Those standards require that we plan and perform the audit to obtain reasonable assurance about whether the financial statements are free of material misstatement, whether due to error or fraud. Our audits included performing procedures to assess the risks of material misstatement of the financial statements, whether due to error or fraud, and performing procedures that respond to those risks. Such procedures included examining, on a test basis, evidence regarding the amounts and disclosures in the financial statements. Our audits also included evaluating the accounting principles used and significant estimates made by management, as well as evaluating the overall presentation of the financial statements. We believe that our audits provide a reasonable basis for our opinion.

#### Critical Audit Matters

The critical audit matter communicated below is a matter arising from the current-period audit of the financial statements that was communicated or required to be communicated to the audit committee and that (1) relates to accounts or disclosures that are material to the financial statements and (2) involved our especially challenging, subjective, or complex judgments. The communication of critical audit matters does not alter in any way our opinion on the financial statements, taken as a whole, and we are not, by communicating the critical audit matter below, providing a separate opinion on the critical audit matter or on the accounts or disclosures to which it relates.

#### Goodwill - Paper Packaging & Services and Global Industrial Packaging Asia Pacific Reporting Units Unit - Refer to Note 23 to the Financial Statements

##### Critical Audit Matter Description

The Company's evaluation of goodwill for impairment for the Global Industrial Packaging Asia Pacific ("GIP APAC") reporting unit involves comparing the carrying value of each the reporting unit to the estimated fair value of the reporting unit. The Company's determination of the estimated fair value of the reporting units unit is based on both the market approach and a discounted cash flow analysis utilizing the income approach. The determination of the estimated fair value using the market approach and the discounted cash flow model requires management to make significant estimates and assumptions related to the valuation of the reporting unit. Changes in these assumptions could have a significant impact on either the fair value of the reporting unit, the amount of any goodwill impairment charge, or both. The Company's consolidated goodwill balance was \$1.5 billion \$1.7 billion as of October 31, 2022 October 31, 2023, of which \$768 million and \$95 million were \$96 million was allocated to the Paper Packaging & Services ("PPS") GIP APAC reporting unit and the Global Industrial Packaging Asia Pacific ("GIP APAC") reporting unit, respectively. These reporting units exhibit more sensitivity to changes in estimates and assumptions. unit. The estimated fair value of the PPS and GIP APAC reporting units unit exceeded their its carrying value, by at least 29%, therefore no impairment was recognized.

We identified the valuation of the PPS and the GIP APAC reporting units unit as a critical audit matter because of the significant estimates and assumptions judgments made by management made to estimate their the fair values and value the sensitive nature of the valuation of the PPS and GIP APAC reporting units to changes in key estimates and assumptions including valuation multiples, revenue growth rates, and discount rates, unit. This required a high degree of auditor judgment and an increased extent of effort to evaluate the reasonableness of management's estimates and assumptions related to the forecasts of future net sales, gross profit margins and operating expenses as well as the selection of valuation multiples and discount rate, including the need to involve our fair value specialists, when performing audit procedures to evaluate the reasonableness of management's estimates and assumptions. specialists.

##### How the Critical Audit Matter Was Addressed in the Audit

Our audit procedures related to testing the valuation forecasts of the PPS future net sales, gross profit margins and GIP APAC reporting units focused on certain key assumptions such as valuation multiples, revenue growth rates, operating expenses and the selection of the valuation multiples and discount rates, and rate for the GIP APAC reporting unit included the following, procedures, among others:

- We tested the effectiveness of internal controls over management's goodwill impairment evaluation, including those over the determination of the fair value of the PPS and GIP APAC reporting units, unit, such as controls related to management's development of forecasts of future net sales, gross profit margins and operating expenses, and the selection of the valuation multiples revenue growth rates, and discount rates rate.
- We performed a sensitivity analysis of the revenue growth rates forecasts of future net sales, gross profit margins, operating expenses and the discount rates, rate, which included their impact on future cash flows flows.
- We evaluated management's ability to accurately forecast net sales, gross profit margins, and operating expenses and evaluated the reasonableness of these assumptions by comparing management's forecast for historical periods to actual results for those periods.
- We evaluated the reasonableness of management's revenue growth rates used in the discounted cash flow model forecasts of future net sales and gross profit margins by comparing the forecasted revenues forecasts to historical amounts, historical and forecasted information included in macroeconomic benchmarking competitors' analyst's forecasts, and future forecasted macroeconomic benchmarking reports.
- With the assistance of our fair value specialists, we evaluated the reasonableness of (1) the long-term revenue growth rates through macroeconomic benchmarking, (2) rate, the discount rates, rate, and (3) the valuation multiples by developing by:
  - Testing the source information underlying the determination of long-term revenue growth rate, the discount rate, and the valuation multiples and the mathematical accuracy of the calculations.

- Developing a range of independent estimates for the discount rate and valuation multiples and comparing those to the rates discount rate and amounts valuation multiples selected by management.
- Comparing the long-term revenue growth rate to macroeconomic benchmarking.

/s/ Deloitte & Touche LLP

Columbus, Ohio

December 16, 2022 18, 2023

We have served as the Company's auditor since 2014.

#### ITEM 9. CHANGES IN AND DISAGREEMENTS WITH ACCOUNTANTS ON ACCOUNTING AND FINANCIAL DISCLOSURES

None.

#### ITEM 9A. CONTROLS AND PROCEDURES

##### Changes in Internal Control Over Financial Reporting

There has been no change in our internal control over financial reporting that occurred during the most recent fiscal quarter that has materially affected, or is reasonably likely to materially affect, our internal control over financial reporting.

##### Disclosure Controls and Procedures

We completed the Lee Container Acquisition on December 15, 2022, the Centurion Acquisition on March 31, 2023, the ColePak Acquisition on August 23, 2023 and the Reliance Acquisition on October 1, 2023. The scope of our assessment of the effectiveness of internal controls over financial reporting for the fiscal year ended October 31, 2023, will not include the Lee Container Acquisition, the Centurion Acquisition, the ColePak Acquisition and the Reliance Acquisition. This exclusion is in accordance with the Securities and Exchange Commission's general guidance that an assessment of a recently acquired business may be omitted from the scope of assessment in the year of acquisition.

With the participation of our principal executive officer and principal financial officer, our management has evaluated the effectiveness of our disclosure controls and procedures (as defined in Rule 13a-15(e) under the Securities Exchange Act of 1934, as amended (the "Exchange Act")), as of the end of the period covered by this report. Based upon that evaluation, our principal executive officer and principal financial officer have concluded that, as of the end of the period covered by this report:

- Information required to be disclosed by us in the reports that we file or submit under the Exchange Act is recorded, processed, summarized and reported within the time periods specified in the rules and forms of the Securities and Exchange Commission;
- Information required to be disclosed by us in the reports that we file or submit under the Exchange Act is accumulated and communicated to our management, including our principal executive officer and principal financial officer, as appropriate, to allow timely decisions regarding required disclosure; and
- Our disclosure controls and procedures are effective.

##### Management's Annual Report on Internal Control over Financial Reporting

Our management is responsible for establishing and maintaining adequate internal control over our financial reporting. Internal control over financial reporting is the process designed to provide reasonable assurance regarding the reliability of financial reporting and the preparation of financial statements for external purposes in accordance with accounting principles generally accepted in the United States. Our internal control over financial reporting includes those policies and procedures that:

- pertain to the maintenance of records that, in reasonable detail, accurately and fairly reflect the transactions and dispositions of our assets;
- provide reasonable assurance that transactions are recorded as necessary to allow for the preparation of financial statements in accordance with GAAP, and that our receipts and expenditures are being made only in accordance with authorizations of our management and directors;
- provide reasonable assurance regarding prevention or timely detection of unauthorized acquisition, use or disposition of our assets that could have a material effect on our consolidated financial statements; and
- provide reasonable assurance as to the detection of fraud.

All internal control systems have inherent limitations, including the possibility of circumvention and overriding of controls, and therefore can provide only reasonable assurance of achieving the designed control objectives. The Company's Company's internal control system is supported by written policies and procedures, contains self-monitoring mechanisms, and is audited by the internal audit function. Appropriate actions are taken by management to correct deficiencies as they are identified. As allowed by the Securities and Exchange Commission's general guidance, management excluded Lee Container, Centurion, ColePak, and Reliance, which were acquired in 2023, from its assessment of internal control over financial reporting. These acquisitions constituted approximately 13% of total assets and approximately 3% of net sales, included in our consolidated financial statements as of and for the year ended October 31, 2023.

As of **October 31, 2022** **October 31, 2023**, management has assessed the effectiveness of the **Company's** internal control over financial reporting. In making this assessment, we used the criteria described in **"Internal Control - Integrated Framework (2013)"** issued by the Committee of Sponsoring Organizations of the Treadway Commission. Based on our assessment, management concluded that the **Company's** internal control over financial reporting was effective as of **October 31, 2022** **October 31, 2023**.

Our internal control over financial reporting as of **October 31, 2022** **October 31, 2023**, has been audited by Deloitte & Touche LLP, an independent registered public accounting firm, as stated in their report, which appears herein.

#### **Report of Independent Registered Public Accounting Firm**

To the shareholders and Board of Directors of Greif, Inc. and subsidiary companies

#### **Opinion on Internal Control over Financial Reporting**

We have audited the internal control over financial reporting of Greif, Inc. and subsidiaries (the "Company") as of **October 31, 2022** **October 31, 2023**, based on criteria established in *Internal Control—Integrated Framework (2013)* issued by the Committee of Sponsoring Organizations of the Treadway Commission (COSO). In our opinion, the Company maintained, in all material respects, effective internal control over financial reporting as of **October 31, 2022** **October 31, 2023**, based on the criteria established in *Internal Control—Integrated Framework (2013)* issued by COSO.

We have also audited, in accordance with the standards of the Public Company Accounting Oversight Board (United States) (PCAOB), the consolidated financial statements as of and for the year ended **October 31, 2022** **October 31, 2023**, of the Company and our report dated **December 16, 2022** **December 18, 2023**, expressed an unqualified opinion on those financial statements.

As described in Management's Annual Report on Internal Control over Financial Reporting, management excluded from its assessment the internal control over financial reporting at Lee Container Corporation, Inc., Centurion Container LLC, ColePak, LLC, and Reliance Products Ltd., which were acquired on December 15, 2022, March 31, 2023, August 23, 2023, and October 1, 2023, respectively, and whose financial statements constitute approximately 13% of total assets and approximately 3% of total revenues of the consolidated financial statement amounts as of and for the fiscal year ended October 31, 2023. Accordingly, our audit did not include the internal control over financial reporting at Lee Container Corporation, Inc., Centurion Container LLC, ColePak, LLC, and Reliance Products Ltd. and their subsidiaries.

#### **Basis for Opinion**

The Company's management is responsible for maintaining effective internal control over financial reporting and for its assessment of the effectiveness of internal control over financial reporting, included in the accompanying Management's Annual Report on Internal Control over Financial Reporting. Our responsibility is to express an opinion on the Company's internal control over financial reporting based on our audit. We are a public accounting firm registered with the PCAOB and are required to be independent with respect to the Company in accordance with the U.S. federal securities laws and the applicable rules and regulations of the Securities and Exchange Commission and the PCAOB.

We conducted our audit in accordance with the standards of the PCAOB. Those standards require that we plan and perform the audit to obtain reasonable assurance about whether effective internal control over financial reporting was maintained in all material respects. Our audit included obtaining an understanding of internal control over financial reporting, assessing the risk that a material weakness exists, testing and evaluating the design and operating effectiveness of internal control based on the assessed risk, and performing such other procedures as we considered necessary in the circumstances. We believe that our audit provides a reasonable basis for our opinion.

#### **Definition and Limitations of Internal Control over Financial Reporting**

A company's internal control over financial reporting is a process designed to provide reasonable assurance regarding the reliability of financial reporting and the preparation of financial statements for external purposes in accordance with generally accepted accounting principles. A company's internal control over financial reporting includes those policies and procedures that (1) pertain to the maintenance of records that, in reasonable detail, accurately and fairly reflect the transactions and dispositions of the assets of the company; (2) provide reasonable assurance that transactions are recorded as necessary to permit preparation of financial statements in accordance with generally accepted accounting principles, and that receipts and expenditures of the company are being made only in accordance with authorizations of management and directors of the company; and (3) provide reasonable assurance regarding prevention or timely detection of unauthorized acquisition, use, or disposition of the company's assets that could have a material effect on the financial statements.

Because of its inherent limitations, internal control over financial reporting may not prevent or detect misstatements. Also, projections of any evaluation of effectiveness to future periods are subject to the risk that controls may become inadequate because of changes in conditions, or that the degree of compliance with the policies or procedures may deteriorate.

/s/ Deloitte & Touche LLP

Columbus, Ohio  
December **16, 2022** **18, 2023**

#### **ITEM 9B. OTHER INFORMATION**

None.

## PART III

### ITEM 10. DIRECTORS, EXECUTIVE OFFICERS AND CORPORATE GOVERNANCE

Information regarding our directors required by Items 401(a) and (d)-(f) of Regulation S-K will be found under the caption "Proposal Number 1 – Election of Directors" in the **2023 2024** Proxy Statement, which information is incorporated herein by reference. Information regarding our executive officers required by Items 401(b) and (d)-(f) of Regulation S-K will be contained under the caption "Corporate Governance - Executive Officers of the Company" in the **2023 2024** Proxy Statement, which information is incorporated herein by reference.

We have a **separately-designated** **separately designated** standing Audit Committee established in accordance with Section 3(a)(58)(A) of the Exchange Act. As of the date of this filing, the members of the Audit Committee were **Bruce A. Edwards**, **John F. Finn**, **Robert M. Patterson**, **and Karen A. Morrison**, **Kimberly T. Scott**, **Scott** and **Vicki L. Avril-Groves**. **Mr. Edwards Patterson** is Chairperson of the Audit Committee. Our Board of Directors has determined that Mr. Patterson is an "Audit Committee Financial Expert," as that term is defined in Item 401(h)(2) of Regulation S-K, and "Independent," as that term is defined in Rule 10A-3 of the Exchange Act.

Information regarding the filing of reports of ownership under Section 16(a) of the Exchange Act by our officers and directors and persons owning more than 10 percent of a registered class of our equity securities required by Item 405 of Regulation S-K will be found under the caption "Corporate Governance—Stock Holdings of Certain Owners and Management—Delinquent Section 16(a) Reports" in the **2023 2024** Proxy Statement, which information is incorporated herein by reference.

Information concerning the procedures by which stockholders may recommend nominees to our Board of Directors will be found under the caption "Other Matters - Stockholder Recommendations for Director Nominees" in the **2023 2024** Proxy Statement. There has been no material change to the nomination procedures we previously disclosed in the proxy statement for our **2022 2023** annual meeting of stockholders.

Our Board of Directors has adopted a code of ethics that applies to our principal executive officer, principal financial officer, principal accounting officer, controller and persons performing similar functions. This code of ethics is posted on our Internet Web site at [www.greif.com](http://www.greif.com) under "Investors—Corporate Governance—Governance Documents." Copies of this code of ethics are also available to any person, without charge, by making a written request to us. Requests should be directed to Greif, Inc., Attention: Corporate Secretary, 425 Winter Road, Delaware, Ohio 43015. Any amendment (other than any technical, administrative or other non-substantive amendment) to, or waiver from, a provision of this code will be posted on our website described above within four business days following its occurrence.

### ITEM 11. EXECUTIVE COMPENSATION

The **2023 2024** Proxy Statement will contain information regarding the following matters: information regarding executive compensation required by Item 402 of Regulation S-K will be found under the caption "Compensation Discussion and Analysis;" information required by Item 407(e)(4) of Regulation S-K will be found under the caption "Compensation Committee Matters - Compensation Committee Interlocks and Insider Participation;" and information required by Item 407(e)(5) of Regulation S-K will be found under the caption "Compensation Committee Matters- Compensation Committee Report." This information is incorporated herein by reference.

### ITEM 12. SECURITY OWNERSHIP OF CERTAIN BENEFICIAL OWNERS AND MANAGEMENT AND RELATED STOCKHOLDER MATTERS

Information regarding security ownership of certain beneficial owners and management required by Item 403 of Regulation S-K will be found under the caption "Corporate Governance - Stock Holdings of Certain Owners and Management" in the **2023 2024** Proxy Statement, which information is incorporated herein by reference.

Information regarding equity compensation plan information required by Item 201(d) of Regulation S-K will be found under the caption "Executive Compensation Tables - Equity Compensation Plan Information" in the **2023 2024** Proxy Statement, which information is incorporated herein by reference.

### ITEM 13. CERTAIN RELATIONSHIPS AND RELATED TRANSACTIONS, AND DIRECTOR INDEPENDENCE

Information regarding certain relationships and related transactions required by Item 404 of Regulation S-K will be found under the caption "Other Matters - Certain Relationships and Related Transactions" in the **2023 2024** Proxy Statement, which information is incorporated herein by reference.

Information regarding the independence of our directors required by Item 407(a) of Regulation S-K will be found under the caption "Corporate Governance – Director Independence" in the **2023 2024** Proxy Statement, which information is incorporated herein by reference.

### ITEM 14. PRINCIPAL ACCOUNTANT FEES AND SERVICES

Information regarding principal accounting fees and services required by Item 9(e) of Schedule 14A will be found under the caption "Audit Committee Matters - Fees of Independent Registered Public Accounting Firm" in the **2023 2024** Proxy Statement, which information is incorporated herein by reference.

## PART IV

### ITEM 15. EXHIBITS AND FINANCIAL STATEMENT SCHEDULES

#### EXHIBITS

Exhibit No.	Description of Exhibit	If Incorporated by Reference, Document with which Exhibit was Previously Filed with SEC
3.1	<a href="#">Amended and Restated Certificate of Incorporation of Greif, Inc.</a>	Annual Report on Form 10-K for the fiscal year ended October 31, 1997, File No. 001-00566 (see Exhibit 3(a) therein).
3.2	<a href="#">Amendment to Amended and Restated Certificate of Incorporation of Greif, Inc.</a>	Definitive Proxy Statement on Form 14A dated January 27, 2003, File No. 001-00566 (see Exhibit A therein).
3.3	<a href="#">Amendment to Amended and Restated Certificate of Incorporation of Greif, Inc.</a>	Quarterly Report on Form 10-Q for the fiscal quarter ended April 30, 2007, File No. 001-00566 (see Exhibit 3.1 therein).
3.4	<a href="#">Third Amended and Restated By-Laws of Greif, Inc.</a>	Current Report on Form 8-K dated September 3, 2021, File No. 001-00566 (see Exhibit 99.2 therein).
4.13.5	<a href="#">Amendment to Third Amended and Restated By-Laws of Greif, Inc.</a>	Current Report on Form 8-K dated December 11, 2023, File No. 001-00566 (see Exhibit 99.3 therein).
4	<a href="#">Description of the Registrant's Registrant's Securities Registered under Section 12 of the Securities Exchange Act of 1934.</a>	Annual Report on Form 10-K for the fiscal year ended October 31, 2019, File No. 001-00566 (see Exhibit 4.3 therein).
10.1*	<a href="#">Greif, Inc. Amended and Restated Directors' Deferred Compensation Plan.</a>	Quarterly Report on Form 10-Q for the fiscal quarter ended April 30, 2006, File No. 001-00566 (see Exhibit 10.2 therein).
10.2*	<a href="#">Supplemental Retirement Benefit Agreement.</a>	Annual Report on Form 10-K for the fiscal year ended October 31, 1999, File No. 001-00566 (see Exhibit 10(i) therein).
10.3*	<a href="#">Greif, Inc. Second Amended and Restated Supplemental Executive Retirement Plan.</a>	Annual Report on Form 10-K for the fiscal year ended October 31, 2007, File No. 001-00566 (see Exhibit 10(f) therein).
10.4*	<a href="#">Greif, Inc. 2006 Amended and Restated Long-Term Incentive Plan.</a>	Quarterly Report on Form 10-Q for the fiscal quarter ended April 30, 2006, File No. 001-00566 (see Exhibit 10.1 therein).
10.5*	<a href="#">Amendment No. 1 to Greif, Inc. 2006 Amended and Restated Long-Term Incentive Plan.</a>	Annual Report on Form 10-K for the fiscal year ended October 31, 2014, File No. 001-00566 (See Exhibit 10.8 therein).
10.6*	<a href="#">Amendment No. 2 to Greif, Inc. 2006 Amended and Restated Long-Term Incentive Plan</a>	Annual Report on Form 10-K for the fiscal year ended October 31, 2018, File No. 001-00566 (See Exhibit 10.8 therein).
10.7*	<a href="#">Amendment No. 3 to Greif, Inc. 2006 Amended and Restated Long-Term Incentive Plan</a>	Annual Report on Form 10-K for the fiscal year ended October 31, 2020, File No. 001-00566 (See Exhibit 10.7 therein).
10.8*	<a href="#">Greif, Inc. 2020 Long-Term Incentive Plan Plan.</a>	Annual Report on Form 10-K for the fiscal year ended October 31, 2020, File No. 001-00566 (See Exhibit 10.8 therein).
10.9*10.5*	<a href="#">Form of Performance Stock Unit Award Document for the Greif, Inc. 2020 Long-Term Incentive Plan Plan.</a>	Annual Report on Form 10-K for the fiscal year ended October 31, 2020, File No. 001-00566 (See Exhibit 10.9 therein).
10.10*10.6*	<a href="#">Form of Restricted Stock Unit Award Document – Time Vesting for the Greif, Inc. 2020 Long-Term Incentive Plan Plan.</a>	Annual Report on Form 10-K for the fiscal year ended October 31, 2020, File No. 001-00566 (See Exhibit 10.10 therein).
10.11*10.7*	<a href="#">Greif, Inc. Performance-Based Incentive Compensation Plan.</a>	Definitive Proxy Statement on Form 14A dated January 25, 2002, File No. 001-00566 (see Exhibit B therein).
10.8*	<a href="#">Amendment No. 1 to the Greif, Inc. Performance-Based Incentive Compensation Plan.</a>	Annual Report on Form 10-K for the fiscal year ended October 31, 2011, File No. 001-00566 (See Exhibit 10(i) therein).
10.9*	<a href="#">Amendment No. 2 to the Greif, Inc. Performance-Based Incentive Compensation Plan.</a>	Annual Report on Form 10-K for the fiscal year ended October 31, 2013, File No. 001-00566 (See Exhibit 10.10 therein).
10.10*	<a href="#">Amendment No. 3 to the Greif, Inc. Performance-Based Incentive Compensation Plan.</a>	Annual Report on Form 10-K for the fiscal year ended October 31, 2017, File No. 001-00566 (See Exhibit 10.11 therein).

Exhibit No.	Description of Exhibit	If Incorporated by Reference, Document with which Exhibit was Previously Filed with SEC
10.12*	<a href="#">Amendment No. 1 to Greif, Inc. Performance-Based Incentive Compensation Plan</a>	Annual Report on Form 10-K for the fiscal year ended October 31, 2011, File No. 001-00566 (See Exhibit 10(i) therein).
10.13*	<a href="#">Amendment No. 2 to Greif, Inc. Performance-Based Incentive Compensation Plan</a>	Annual Report on Form 10-K for the fiscal year ended October 31, 2013, File No. 001-00566 (See Exhibit 10.10 therein).
10.14*	<a href="#">Amendment No. 3 to Greif, Inc. Performance-Based Incentive Compensation Plan</a>	Annual Report on Form 10-K for the fiscal year ended October 31, 2017, File No. 001-00566 (See Exhibit 10.11 therein).
10.15* 10.11*	<a href="#">Greif, Inc. 2001 Management Equity Incentive and Compensation Plan Plan</a>	Definitive Proxy Statement on Form DEF 14A dated January 26, 2001, File No. 001-00566 (see Exhibit A therein).
10.16* 10.12*	<a href="#">Amendment No. 1 to the Greif, Inc. 2001 Management Equity Incentive and Compensation Plan Plan</a>	Annual Report on Form 10-K for the fiscal year ended October 31, 2011, File No. 001-00566 (See Exhibit 10(k) therein).
10.17* 10.13*	<a href="#">Amendment No. 2 to the Greif, Inc. 2001 Management Equity Incentive and Compensation Plan Plan</a>	Annual Report on Form 10-K for the fiscal year ended October 31, 2015, File No. 001-00566 (See Exhibit 10.13.2 therein).
10.18* 10.14*	<a href="#">Amendment No. 3 to the Greif, Inc. 2001 Management Equity Incentive and Compensation Plan Plan</a>	Annual Report on Form 10-K for the fiscal year ended October 31, 2020, File No. 001-00566 (See Exhibit 10.18 therein).
10.19* 10.15*	<a href="#">2005 Greif, Inc. Amended and Restated Outside Directors Equity Award Plan Plan</a>	Definitive Proxy Statement Quarterly Report on Form DEF 14A, 10-Q for the fiscal quarter ended January 31, 2023, File No. 001-00566 filed with the Securities and Exchange Commission on January 21, 2005 (see Exhibit A 10.1 therein).
10.20* 10.16*	<a href="#">Stock Option Award Agreement for the Greif, Inc. 2005 Amended and Restated Outside Directors Equity Award Plan Plan</a>	Registration Statement on Form S-8, File No. 333-123133 (see Exhibit 4(c) therein).
10.21* 10.17*	<a href="#">Restricted Share Award Agreement for the Greif, Inc. 2005 Amended and Restated Outside Directors Equity Award Plan Plan</a>	Registration Statement on Form S-8, File No. 333-123133 (see Exhibit 4(d) therein).
10.22* 10.18*	<a href="#">Amendment No. 1 to Greif, Inc. 2005 Outside Directors Equity Award Plan A</a>	Quarterly Report on Form 10-Q for the fiscal quarter ended January 31, 2016, File No. 001-00566 (see Exhibit 10.1 therein).
10.23*	<a href="#">Amended and Restated Nonqualified Deferred Compensation Plan, effective June 1, 2008 June 1, 2008</a>	Quarterly Report on Form 10-Q for the fiscal quarter ended April 30, 2020, File No. 001-00566 (see Exhibit 10.5 therein).
10.24* 10.19*	<a href="#">Amendment No. 1 to the Greif, Inc. Amended and Restated Nonqualified Deferred Compensation Plan</a>	Quarterly Report on Form 10-Q for the fiscal quarter ended April 30, 2020, File No. 001-00566 (see Exhibit 10.6 therein).
10.20*	<a href="#">Greif, Inc. Nonqualified Supplemental Deferred Compensation Plan, effective January 1, 2020 January 1, 2020</a>	Quarterly Report on Form 10-Q for the fiscal quarter ended April 30, 2020, File No. 001-00566 (see Exhibit 10.3 therein).
10.25* 10.21*	<a href="#">Amendment No. 1 to the Greif, Inc. Nonqualified Supplemental Deferred Compensation Plan</a>	Current Report on Form 8-K dated June 30, 2023, File No. 001-00566 (see Exhibit 10.1 therein).
10.22*	<a href="#">Form Nonqualified Supplemental Deferred Compensation Plan Participation Letter Letter</a>	Quarterly Report on Form 10-Q for the fiscal quarter ended April 30, 2020, File No. 001-00566 (see Exhibit 10.4 therein).
10.26*	<a href="#">Amended and Restated Nonqualified Deferred Compensation Plan Amendment No. 1, dated December 20, 2010</a>	Quarterly Report on Form 10-Q for the fiscal quarter ended April 30, 2020, File No. 001-00566 (see Exhibit 10.6 therein).
10.27* 10.23*	<a href="#">Defined Contribution Supplemental Executive Retirement Plan</a>	Quarterly Report on Form 10-Q for the fiscal quarter ended April 30, 2013, File No. 001-00566 (see Exhibit 10.1 therein).

10.24*	<a href="#">Incentive Compensation Recovery Policy</a>	Contained herein.
<b>Exhibit</b>		
<b>No.</b>	<b>Description of Exhibit</b>	<b>If Incorporated by Reference,</b>
10.28 10.25	<a href="#">Second Amended and Restated Credit Agreement, dated as of March 1, 2022, March 1, 2022, among Greif, Inc., Greif Packaging LLC, GreifInternationalHolding B.V., and Greif Beheer B.V., as borrowers, each financial institution party thereto, as lenders, Wells Fargo Securities, LLC, JPMorganChase Bank, National Association, BOFA Securities, Inc., MUFG Bank, Ltd, U.S. Bank National Association, and TD Bank, N.A., as joint leadarrangers and joint book managers, and JPMorgan Chase Bank, as administrative agent for the lenders.</a>	Document with which Exhibit was Previously Filed with SEC Quarterly Report on Form 10-Q for the fiscal quarter ended January 31, 2022, File No. 001-00566 (see Exhibit 10.1 therein).
10.29 10.26	<a href="#">Letter Credit Agreement, dated April 20, 2022 May 17, 2023, among Greif, Inc., as the Company, Greif Packaging LLC, as the Borrower, CoBank, ACB, as Administrative Agent, and the Other Lenders Party hereto, CoBank, ACB, as Lead Arranger and Bookrunner.</a>	Current Report on Form 8-K dated May 19, 2023, File No. 001-00566 (see Exhibit 99.1 therein).

Exhibit No.	Description of Exhibit	If Incorporated by Reference, Document with which Exhibit was Previously Filed with SEC
10.27	<p><a href="#">Amendment agreement dated April 14, 2023, between Coöperatieve Rabobank U.A., the persons listed in Schedule 1 as Originators, Coöperage Receivables Finance B.V. as Main SPV, Greif Services Belgium BV as Greif CC, Subordinated Lender, Belgian Intermediary, Originator Agent and master Servicer, Greif, Inc. as Performance Indemnity Provider, Stichting Cooperage Receivables Finance Holding as Shareholder, Trust International Management (T.I.M.) B.V. as Main SPV's Director and Shareholder's Director, Nieuw Amsterdam Receivables Corporation B.V., Greif, Inc., Greif Service Belgium BVBA as lender, Coöperatieve Rabobank U.A. as Facility Agent, Main SPV Account Bank, Funding Administrator, Main SPV Administrator and Coöperage Receivables Finance B.V., extending the maturity date of the European receivables financing arrangement to April 24, 2023, Italian Intermediary and Coöperatieve Rabobank U.A. Trading as Rabobank London as Liquidity Facility Provider.</a></p>	<p>Quarterly Report on Form 10-Q for the fiscal quarter ended April 30, 2022 April 30, 2023, File No. 001-00566 (see Exhibit 10.1 therein).</p>
10.30	<p><a href="#">Amendment agreement dated April 20, 2022, between Coöperatieve Rabobank U.A. Trading as Rabobank London, Coöperatieve Rabobank U.A., Nieuw Amsterdam Receivables Corporation B.V., Cooperage Receivables Finance B.V., Stichting Cooperage Receivables Finance Holding, Greif Service Belgium BV, Greif, Inc., the Originators as listed in Schedule 1 and Trust International Management (T.I.M.) B.V., regarding the European receivables financing arrangement.</a></p>	<p>Quarterly Report on Form 10-Q for the fiscal quarter ended April 30, 2022, File No. 001-00566 (see Exhibit 10.2 therein).</p>
10.31 10.28	<p><a href="#">Third Amended and Restated Sale Agreement, dated September 24, 2019, by and among Greif Packaging LLC, Delta Petroleum Company, Inc., American Flange &amp; Manufacturing Co., Inc., Caraustar Mill Group, Inc., Caraustar Industrial and Consumer Products Group, Inc., Caraustar Recovered Fiber Group, Inc., The Newark Group, Inc., Caraustar Consumer Products Group, LLC, Caraustar Custom Packaging Group, Inc., Tama Paperboard, LLC, Cascade Paper Converters Co. and each other entity from time to time party hereto as an Originator, as Originators and Greif Receivables Funding LLC.</a></p>	<p>Current Report on Form 8-K dated September 26, 2019, File No. 001-00566 (see Exhibit 99.1 therein)</p>
10.32 10.29	<p><a href="#">Amendment No. 1, dated May 17, 2023, to the Third Amended and Restated Sale Agreement.</a></p>	<p>Quarterly Report on Form 10-Q for the fiscal quarter ended April 30, 2023, File No. 001-00566 (see Exhibit 10.2 therein).</p>
10.30	<p><a href="#">Third Amended and Restated Transfer and Administration Agreement, dated September 24, 2019, by and among Greif Receivables Funding LLC, Greif Packaging LLC, Greif Packaging LLC, Delta Petroleum Company, Inc., American Flange &amp; Manufacturing Co., Inc., Caraustar Mill Group, Inc., Caraustar Industrial and Consumer Products Group, Inc., Caraustar Recovered Fiber Group, Inc., The Newark Group, Inc., Caraustar Consumer Products Group, LLC, Caraustar Custom Packaging Group, Inc., Tama Paperboard, LLC, Cascade Paper Converters Co., and each other entity from time to time party hereto as an Originator, as Originators, Bank of America, N.A., and the various investor groups, managing agents and administrators from time to time parties here to.</a></p>	<p>Annual Report on Form 10-K for the fiscal year ended October 31, 2019, File No. 001-00566 (see Exhibit 10.26 therein).</p>
10.33 10.31	<p><a href="#">Amendment No. 1 to the Third Amended and Restated Transfer and Administration Agreement Agreement.</a></p>	<p>Annual Report on Form 10-K for the fiscal year ended October 31, 2020, File No. 001-00566 (see Exhibit 10.36 therein).</p>
10.34 10.32	<p><a href="#">Amendment No. 2 to the Third Amended and Restated Transfer and Administration Agreement Agreement.</a></p>	<p>Quarterly Report on Form 10-Q for the fiscal quarter ended January 31, 2021, File No. 001-00566 (see Exhibit 10.1 therein).</p>
10.33	<p><a href="#">Amendment No. 3 to the Third Amended and Restated Transfer and Administration Agreement.</a></p>	<p>Quarterly Report on Form 10-Q for the fiscal quarter ended April 30, 2021, File No. 001-00566 (see Exhibit 10.2 therein).</p>
10.34	<p><a href="#">Amendment No. 4 to the Third Amended and Restated Transfer and Administration Agreement.</a></p>	<p>Quarterly Report on Form 10-Q for the fiscal quarter ended April 30, 2022, File No. 001-00566 (see Exhibit 10.3 therein).</p>

Exhibit No.	Description of Exhibit	If Incorporated by Reference, Document with which Exhibit was Previously Filed with SEC
10.35	<a href="#">Amendment No. 35, dated May 17, 2023, to the Third Amended and Restated Transfer and Administration Agreement</a>	Quarterly Report on Form 10-Q for the fiscal quarter ended <a href="#">April 30, 2021</a> , File No. 001-00566 (see Exhibit 10.2 therein).
10.36	<a href="#">Amendment No. 4 to Third Amended and Restated Transfer and Administration Agreement</a>	Quarterly Report on Form 10-Q for the fiscal quarter ended <a href="#">April 30, 2022</a> <a href="#">April 30, 2023</a> , File No. 001-00566 (see Exhibit 10.3 therein).
10.37 10.36	<a href="#">Assignment agreement, dated March 31, 2020, by and among Greif Receivables Funding LLC, Greif Packaging LLC, Custom Packaging Group LLC, the other Originators party hereto, Greif, Inc., the Investors, Administrators and Managing Agents party hereto and Bank of America, N.A., as Agent.</a>	Quarterly Report on Form 10-Q for the fiscal quarter ended April 30, 2020, File No. 001-00566 (see Exhibit 10.1 therein).
21	<a href="#">Subsidiaries of the Registrant.</a>	Contained herein.
23	<a href="#">Consent of Deloitte &amp; Touche LLP. (PCAOB Firm ID: 34)</a>	Contained herein.
24.24.1	<a href="#">Powers of Attorney for Vicki L. Avril-Groves, John F. Finn, John W. McNamara, Bruce A. Edwards, Daniel J. Gunsett, Mark A. Emkes, Robert M. Pa Patterson, Peter G. Watson, Kimberly T. Scott, and Karen A. Morrison and.</a>	Annual Report on Form 10-K for the fiscal year ended October 31, 2022, File No. 001-00566 (see Exhibit 24 therein).
24.2	<a href="#">Power RoelVestjens, of Attorney for Frank C. Miller.</a>	Contained herein.
31.1	<a href="#">Certification of Chief Executive Officer Pursuant to Rule 13a-14(a) of the Securities Exchange Act of 1934.</a>	Contained herein.
31.2	<a href="#">Certification of Chief Financial Officer Pursuant to Rule 13a-14(a) of the Securities Exchange Act of 1934.</a>	Contained herein.
32.1	<a href="#">Certification of Chief Executive Officer required by Rule 13a-14(b) of the Securities Exchange Act of 1934 and Section 1350 of Chapter 63 of Title 18 of the United States Code.</a>	Contained herein.
32.2	<a href="#">Certification of Chief Financial Officer required by Rule 13a-14(b) of the Securities Exchange Act of 1934 and Section 1350 of Chapter 63 of Title 18 of the United States Code.</a>	Contained herein.
101	The following financial statements from the Company's Annual Report on Form 10-K for the year ended <a href="#">October 31, 2022</a> <a href="#">October 31, 2023</a> , formatted in Inline XBRL (Extensive Business Reporting Language): (i) Consolidated Statements of Income, (ii) Consolidated Statements of Comprehensive Income, (iii) Consolidated Balance Sheets, (iv) Consolidated Statements of Cash Flow, (v) Consolidated Statements of Changes in Shareholders' Equity and (vi) Notes to Consolidated Financial Statements.	Contained herein.

\* Executive compensation plans and arrangements required to be filed pursuant to Item 601(b)(10) of Regulation S-K.

Schedule No.	Description of Schedule	If Incorporated by Reference, Document with which Exhibit was Previously Filed with SEC
II	<a href="#">Consolidated Valuation and Qualifying Accounts and Reserves</a>	Contained herein.

#### Financial Statement Schedules:

These schedules are omitted because of the absence of the conditions under which they are required or because the information is set forth in the Consolidated Financial Statements or Notes thereto.

**ITEM 16. FORM 10-K SUMMARY**

None.

**SIGNATURES**

Pursuant to the requirements of Section 13 or 15(d) of the Securities Exchange Act of 1934, the Company has duly caused this report to be signed on its behalf by the undersigned, thereunto duly authorized.

Date: December 16, 2022 18, 2023

By: \_\_\_\_\_ Greif, Inc.  
(Registrant)  
Ole G. Rosgaard  
President and Chief Executive Officer

Pursuant to the requirements of the Securities Exchange Act of 1934, this report has been signed below by the following persons on behalf of the Company and in the capacities and on the dates indicated.

/s/ OLE G. ROSGAARD Ole G. Rosgaard President and Chief Executive Officer Member of the Board of Directors (principal executive officer)	/s/ LAWRENCE A. HILSHEIMER Lawrence A. Hilsheimer Executive Vice President and Chief Financial Officer (principal financial officer)
/s/ MICHAEL J. TAYLOR Michael J. Taylor Vice President, Corporate Financial Controller (principal accounting officer)	/s/ PETER G. WATSON* BRUCE A. EDWARDS* Peter G. Watson Bruce A. Edwards Chairman Member of the Board of Directors
/s/ BRUCE A. EDWARDS* Bruce A. Edwards Member of the Board of Directors	/s/ DANIEL J. GUNSETT* Daniel J. Gunsett Member of the Board of Directors
	FRANK C. MILLER* Frank C. Miller
/s/ JOHN F. FINN* W. McNAMARA* John F. Finn W. McNamara Member of the Board of Directors	/s/ JOHN W. MCNAMARA* KAREN A. MORRISON* John W. McNamara Karen A. Morrison Member of the Board of Directors
/s/ KAREN A. MORRISON* Karen A. Morrison Member of the Board of Directors	/s/ KIMBERLY T. SCOTT* Kimberly T. Scott Member of the Board of Directors
	MARK A. EMKES* Mark A. Emkes
/s/ MARK A. EMKES* Mark A. Emkes Member of the Board of Directors	/s/ ROBERT M. PATTERSON* Robert M. Patterson Member of the Board of Directors
/s/ ROEL VESTJENS* Roel Vestjens Robert M. Patterson Member of the Board of Directors	/s/ VICKI L. AVRIL-GROVES* Vicki L. Avril-Groves Member of the Board of Directors

\* The undersigned, Ole G. Rosgaard, by signing his name hereto, does hereby execute this Form 10-K on behalf of each of the above-named persons pursuant to powers of attorney duly executed by such persons and filed as an exhibit to this Form 10-K.

By: \_\_\_\_\_ /s/ OLE. G. ROSGAARD  
Ole G. Rosgaard

**GREIF, INC.**

**SCHEDULE II INCENTIVE COMPENSATION RECOVERY POLICY**

**GREIF, INC. AND SUBSIDIARY COMPANIES**

**Consolidated Valuation**

**A. Introduction**

The Board of Directors (the "Board") of Greif, Inc. (the "Company") is dedicated to maintaining and Qualifying Accounts enhancing a culture that emphasizes integrity and Reserves (Dollars) accountability. As a result, the Board has adopted this incentive compensation recovery policy (the "Policy"), which provides for the recovery by the Company of incentive-based compensation received by Executive Officers under certain circumstances.

**B. Purpose of Policy**

The purpose of this Policy is to provide for the Company's recovery of erroneously awarded compensation received by Executive Officers. This Policy is intended to comply in millions all respects with Section 303A.14 of the New York Stock Exchange ("NYSE") Listed Company Manual, as hereafter amended or modified ("Section 303A.14")

Description	Balance at	Charged to		Charged to Other Accounts	Deductions	Balance at End of Period
	Beginning of Period	Costs and Expenses				
<b>Year ended October 31, 2020:</b>						
Allowance for doubtful accounts	\$ 6.8	\$ 1.3	\$ 1.3	\$ —	\$ 9.4	
<b>Year ended October 31, 2021:</b>						
Allowance for doubtful accounts	\$ 9.4	\$ 2.9	\$ (6.2)	\$ —	\$ 6.1	
<b>Year ended October 31, 2022:</b>						
Allowance for doubtful accounts	\$ 6.1	\$ 1.3	\$ (1.3)	\$ —	\$ 6.1	

**C. Administration**

The Board has determined that the Compensation Committee (the "Committee") of the Board is best suited to administer this Policy. The Committee is authorized, subject to the provisions of this Policy and Section 303A.14, to make such determinations and interpretations and to take such actions in connection with this Policy as it deems necessary or advisable. All determinations and interpretations made by the Committee or the Board in respect of the Policy will be final, binding, and conclusive.

**D. Recovery of Erroneously Awarded Compensation**

The Company will recover reasonably promptly the amount of erroneously awarded compensation in the event that the Company is required to prepare an accounting restatement due to the material noncompliance of the Company with any financial reporting requirement under the securities laws, including any required accounting restatement to correct an error in previously issued financial statements that is material to the previously issued financial statements, or that would result in a material misstatement if the error were corrected in the current period or left uncorrected in the current period (in each case, an "Accounting Restatement").

This Policy applies to all incentive-based compensation received by a person:

(a) After beginning service as an Executive Officer;

(b) Who served as an Executive Officer at any time during the performance period for that incentive-based compensation;

(c) While the Company has a class of securities listed on the NYSE; and

(d) During the three completed fiscal years immediately preceding the date for which the Company is required to prepare an Accounting Restatement. The Company's obligation to recover erroneously awarded compensation is not dependent on if or when the Company's restated financial statements are

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filed with the Securities and Exchange Commission (the "Commission"), but is based on the date or period in respect of which the Accounting Restatement is required.

(2) For purposes of determining the relevant recovery period, the date that the Company is required to prepare an Accounting Restatement is the earlier to occur of:

(a) The date the Board, the Committee, or the officer or officers of the Company authorized to take such action if action of the Board or the Committee is not required, concludes, or reasonably should have concluded, that the Company is required to prepare an Accounting Restatement; or

(b) The date a court, regulator, or other legally authorized body directs the Company to prepare an Accounting Restatement.

(3) The amount of incentive-based compensation that is subject to this Policy (the "**erroneously awarded compensation**") is the amount of incentive-based compensation received that exceeds the amount of incentive-based compensation that otherwise would have been received had it been determined based on the restated amounts and must be computed without regard to any taxes paid. For incentive-based compensation based on stock price or total shareholder return, where the amount of erroneously awarded compensation is not subject to mathematical recalculation directly from the information in an Accounting Restatement:

(a) The amount must be based on a reasonable estimate of the effect of the Accounting Restatement on the stock price or total shareholder return upon which the incentive-based compensation was received; and

(b) The Company must maintain documentation of the determination of that reasonable estimate and provide such documentation to the NYSE.

(4) The Company shall recover erroneously awarded compensation in compliance with this Policy except to the extent that one of the three conditions set forth below are met, and the Committee has made a determination that recovery would be impracticable.

(a) The direct expense paid to a third party to assist in enforcing this Policy would exceed the amount to be recovered. Before concluding that it would be impracticable to recover any amount of erroneously awarded compensation based on expense of enforcement, the Company must make a reasonable attempt to recover such erroneously awarded compensation, document such reasonable attempt(s) to recover, and provide that documentation to the NYSE.

(b) Recovery would violate home country law where that law was adopted prior to November 28, 2022. Before concluding that it would be impracticable to recover any amount of erroneously awarded compensation based on violation of home country law, the Company must obtain an opinion of home country counsel, acceptable to the NYSE, that recovery would result in such a violation, and must provide such opinion to the NYSE.

(c) Recovery would likely cause an otherwise tax-qualified retirement plan, under which benefits are broadly available to employees of the Company, to

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fail to meet the requirements of 26 U.S.C. 401(a)(13) or 26 U.S.C. 411(a) and regulations thereunder.

(5) The Company shall be prohibited from indemnifying any current or former Executive Officer against the loss of erroneously awarded compensation.

#### **E. Disclosure in Commission Filings**

The Company shall file all disclosures with respect to this Policy in accordance with the requirements of the Federal securities laws, including the disclosures required by the applicable Commission filings.

#### **F. Exemptions from Policy**

This Policy shall not apply to any securities specifically exempt from the requirements of Section 303A.14.

#### **G. Definitions**

For purposes of this Policy, the following terms shall have the meanings set forth below:

- (1) **Executive Officer.** An Executive Officer is any one of the Company's Section 16 officers, as identified by the Board of Directors.
- (2) **Financial reporting measures.** Financial reporting measures are measures that are determined and presented in accordance with the accounting principles used in preparing the Company's financial statements, and any measures that are derived wholly or in part from such measures. Stock price and total shareholder return are also financial reporting measures. A financial reporting measure need not be presented within the financial statements or included in a filing with the Commission.
- (3) **Incentive-based Compensation.** Incentive-based compensation is any compensation that is granted, earned, or vested based wholly or in part upon the attainment of a financial reporting measure. For the avoidance of doubt, annual salary is not incentive-based compensation and is not subject to this Policy.
- (4) **Received.** For purposes of this Policy, incentive-based compensation is deemed received in the Company's fiscal period during which the financial reporting measure specified in the incentive-based compensation award is attained, even if the payment or grant of the incentive-based compensation occurs after the end of that period.

#### **H. Amendment**

Subject to the provisions of Section 303A.14, the Committee or Board may, from time to time, suspend, discontinue, revise, or amend this Policy in any respect whatsoever.

#### **I. Other Recoupment Rights**

This Policy shall be construed and interpreted to comply with Section 303A.14. Nothing in this Policy will be deemed to limit or restrict (a) the Company from seeking recoupment, repayment and/or forfeiture of compensation (including incentive compensation) under circumstances not set forth in this Policy and against employees who are not covered by the

Policy, including other disciplinary action, termination of employment, criminal action or other available remedies, or (b) the Committee's discretion in administering any incentive plans of the Company.

Adopted: June 5, 2023

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**EXHIBIT 21**

**SUBSIDIARIES OF REGISTRANT**

Per item 601(b)(21)(ii) of Regulation S-K, names of particular subsidiaries may be omitted if the unnamed subsidiaries, considered in the aggregate as a single subsidiary, would not constitute a significant subsidiary as of **October 31, 2022** **October 31, 2023**. Significant subsidiaries are defined in Rule 1-02(w) of Regulation S-X.

Name of Subsidiary	Incorporated or Organized Under Laws of
<b>United States:</b>	
American Flange & Manufacturing Co. Inc.	Delaware
Caraustar Industrial and Consumer Products Group, Inc.	Delaware
Caraustar Recovered Fiber Group, Inc.	Delaware
ColePak, LLC	Delaware
Container Life Cycle Management LLC	Delaware
Greif Packaging LLC	Delaware
Soterra LLC	Delaware
Tama Paperboard, Lee Container, LLC	Delaware Georgia
Lee Container Iowa, LLC	Iowa
Delta Petroleum Company, Inc.	Louisiana
Centurion Container LLC	New Jersey
The Newark Group, Inc.	New Jersey
Box Board Box-Board Products, Inc.	North Carolina
Caraustar Mill Group, Inc.	Ohio
CorrChoice (PA) LLC	Pennsylvania
<b>International:</b>	
Greif Algeria Spa	Algeria
Greif Argentina S.A.	Argentina
Greif Belgium BVBA BV	Belgium
Greif Embalagens Industrialis Do Industriais do Brasil Ltda Ltda.	Brazil
Caraustar Industrial Canada, Inc.	Canada
Greif Bros. Canada Inc.	Canada
Greif Embalajes Industriales S.A. S.p.A.	Chile
Greif Huizhou (Huizhou) Packaging Co., Ltd.	China
Greif (Shanghai) Packaging Co., Ltd.	China
Greif (Taicang) Packaging Co., Ltd.	China
Greif (Tianjin) Packaging Co., Ltd.	China
Greif Czech Republic a.s. s.r.o	Czech Republic
Greif France SAS	France
Greif Packaging Germany GmbH	Germany
Greif Packaging Plastics Germany GmbH	Germany
Pachmas Packaging Ltd	Israel
Greif Italy SRL S.r.l.	Italy
Greif Malaysia Sdn Bhd Sdn. Bhd.	Malaysia
Greif Mexico, S.A. de C.V.	Mexico
Greif Beheer BV	Netherlands
Greif International Holding BV	Netherlands
Greif Netherland B.V.	Netherlands
Greif Tholu B.V.	Netherlands
Greif Poland Sp z oo Sp. z o.o.	Poland
Greif Portugal, S.A. Lda.	Portugal
Greif Saudi Arabia Ltd.	Saudi Arabia

Greif Saudi Arabia Ltd.	Saudi Arabia
Greif Eastern Packaging Pte. Ltd.	Singapore
Greif South Africa Pty Ltd (Pty) Ltd.	South Africa
Greif Packaging Spain S.L.	Spain
Greif Sweden AB	Sweden
Greif Mimaysan Ambalaj Sanayi A.S.	Turkey
Greif UK Ltd. Ltd	United Kingdom

**EXHIBIT 23**

**CONSENT OF INDEPENDENT REGISTERED PUBLIC ACCOUNTING FIRM**

We consent to the incorporation by reference in Registration Statement Nos. 333-236627, 333-236628, 333-61068, 333-123133, 333-151475, and 333-151475 333-272073 on Form S-8 of our reports dated December 16, 2022 December 18, 2023, relating to the consolidated financial statements of Greif, Inc. and subsidiary companies and the effectiveness of Greif, Inc. and subsidiary companies' internal control over financial reporting appearing in this Annual Report on Form 10-K for the year ended October 31, 2022 October 31, 2023.

/s/ Deloitte & Touche LLP

Columbus, Ohio  
December 16, 2022 18, 2023

**Exhibit 24.2**

GREIF, INC.  
POWER OF ATTORNEY  
FOR  
FORM 10-K ANNUAL REPORTS

The undersigned, a director of Greif, Inc., a Delaware corporation (the "Company"), hereby constitutes and appoints Ole Rosgaard and each of his successors to the office of Chief Executive Officer of the Company, and each of them, as my true and lawful attorneys-in-fact and agents, with full power of substitution and resubstitution, for me and in my name, place, and stead, in my capacity as director of the Company, to execute any and all of the Company's Annual Reports on Form 10-K, and any amendments thereto, to be filed with the Securities and Exchange Commission pursuant to Section 13 or 15(d) of the Securities and Exchange Act of 1934, and to file the same, with all exhibits thereto and other documents in connection therewith, with the Securities and Exchange Commission, granting unto said attorneys-in-fact and agents, and each of them, full power and authority to do and perform each and every act and thing requisite and necessary to be done, as fully to all intents and purposes as the undersigned might or could do in person, hereby ratifying and confirming all that said attorneys-in-fact and agents or any of them, or their substitutes, may lawfully do or cause to be done by virtue hereof.

The undersigned has executed and delivered this Power of Attorney on December 5, 2022 September 14, 2023.

/s/ Vicki L. Avril-Groves Frank C. Miller  
Signature of Director

/s/ Bruce A. Edwards  
Signature of Director

/s/ Mark A. Emkes  
Signature of Director

/s/ John F. Finn  
Signature of Director

/s/ Daniel J. Gunsett

Signature of Director

/s/ John W. McNamara

Signature of Director

/s/ Robert M. Patterson

Signature of Director

/s/ Peter G. Watson

Signature of Director

/s/ Kimberly T. Scott

Signature of Director

/s/ Karen A. Morrison

Signature of Director

/s/ Roel Vestjens

Signature of Director

**EXHIBIT 31.1**

**CERTIFICATION**

I, Ole G. Rosgaard, certify that:

1. I have reviewed this Annual Report on Form 10-K of Greif, Inc.;
2. Based on my knowledge, this report does not contain any untrue statement of a material fact or omit to state a material fact necessary to make the statements made, in light of the circumstances under which such statements were made, not misleading with respect to the period covered by this report;
3. Based on my knowledge, the financial statements, and other financial information included in this report, fairly present in all material respects the financial condition, results of operations and cash flows of the registrant as of, and for, the periods presented in this report;
4. The registrant's other certifying officer and I are responsible for establishing and maintaining disclosure controls and procedures (as defined in Exchange Act Rules 13a-15(e) and 15d-15(e)) and internal control over financial reporting (as defined in Exchange Act Rules 13a-15(f) and 15d-15(f)) for the registrant and have:
  - a) Designed such disclosure controls and procedures, or caused such disclosure controls and procedures to be designed under our supervision, to ensure that material information relating to the registrant, including its consolidated subsidiaries, is made known to us by others within those entities, particularly during the period in which this report is being prepared;
  - b) Designed such internal control over financial reporting, or caused such internal control over financial reporting to be designed under our supervision, to provide reasonable assurance regarding the reliability of financial reporting and the preparation of financial statements for external purposes in accordance with generally accepted accounting principles;
  - c) Evaluated the effectiveness of the registrant's disclosure controls and procedures and presented in this report our conclusions about the effectiveness of the disclosure controls and procedures, as of the end of the period covered by this report based on such evaluation; and
  - d) Disclosed in this report any change in the registrant's internal control over financial reporting that occurred during the registrant's most recent fiscal quarter that has materially affected, or is reasonably likely to materially affect, the registrant's internal control over financial reporting; and
5. The registrant's other certifying officer and I have disclosed, based on our most recent evaluation of internal control over financial reporting, to the registrant's auditors and the audit committee of the registrant's board of directors (or persons performing the equivalent functions):
  - a) All significant deficiencies and material weaknesses in the design or operation of internal control over financial reporting which are reasonably likely to adversely affect the registrant's ability to record, process, summarize and report financial information; and
  - b) Any fraud, whether or not material, that involves management or other employees who have a significant role in the registrant's internal control over financial reporting.

Date: December 16, 2022 18, 2023

/s/ OLE G. ROSGAARD

Ole G. Rosgaard  
President and Chief Executive Officer  
(principal executive officer)

EXHIBIT 31.2

**CERTIFICATION**

I, Lawrence A. Hilsheimer, certify that:

1. I have reviewed this Annual Report on Form 10-K of Greif, Inc.;
2. Based on my knowledge, this report does not contain any untrue statement of a material fact or omit to state a material fact necessary to make the statements made, in light of the circumstances under which such statements were made, not misleading with respect to the period covered by this report;
3. Based on my knowledge, the financial statements, and other financial information included in this report, fairly present in all material respects the financial condition, results of operations and cash flows of the registrant as of, and for, the periods presented in this report;
4. The registrant's other certifying officer and I are responsible for establishing and maintaining disclosure controls and procedures (as defined in Exchange Act Rules 13a-15(e) and 15d-15(e)) and internal control over financial reporting (as defined in Exchange Act Rules 13a-15(f) and 15d-15(f)) for the registrant and have:
  - a) Designed such disclosure controls and procedures, or caused such disclosure controls and procedures to be designed under our supervision, to ensure that material information relating to the registrant, including its consolidated subsidiaries, is made known to us by others within those entities, particularly during the period in which this report is being prepared;
  - b) Designed such internal control over financial reporting, or caused such internal control over financial reporting to be designed under our supervision, to provide reasonable assurance regarding the reliability of financial reporting and the preparation of financial statements for external purposes in accordance with generally accepted accounting principles;
  - c) Evaluated the effectiveness of the registrant's disclosure controls and procedures and presented in this report our conclusions about the effectiveness of the disclosure controls and procedures, as of the end of the period covered by this report based on such evaluation; and
  - d) Disclosed in this report any change in the registrant's internal control over financial reporting that occurred during the registrant's most recent fiscal quarter that has materially affected, or is reasonably likely to materially affect, the registrant's internal control over financial reporting; and
5. The registrant's other certifying officer and I have disclosed, based on our most recent evaluation of internal control over financial reporting, to the registrant's auditors and the audit committee of the registrant's board of directors (or persons performing the equivalent functions):
  - a) All significant deficiencies and material weaknesses in the design or operation of internal control over financial reporting which are reasonably likely to adversely affect the registrant's ability to record, process, summarize and report financial information; and
  - b) Any fraud, whether or not material, that involves management or other employees who have a significant role in the registrant's internal control over financial reporting.

Date: December 16, 2022 18, 2023

/s/ LAWRENCE A. HILSHEIMER

Lawrence A. Hilsheimer  
Executive Vice President and Chief Financial Officer  
(principal financial officer)

EXHIBIT 32.1

**Certification Required by Rule 13a — 14(b) of the Securities Exchange Act of 1934 and Section 1350  
of Chapter 63 of Title 18 of the United States Code**

In connection with the Annual Report of Greif, Inc. (the "Company") on Form 10-K for the annual period ended **October 31, 2022****October 31, 2023**, as filed with the Securities and Exchange Commission on the date hereof (the "Report"), I, Ole G. Rosgaard, the President and Chief Executive Officer of the Company, certify, pursuant to 18 U.S.C. Section 1350, as adopted pursuant to Section 906 of the Sarbanes-Oxley Act of 2002, that to my knowledge:

- (1) The Report fully complies with the requirements of section 13(a) or 15(d) of the Securities Exchange Act of 1934; and
- (2) The information contained in the Report fairly presents, in all material respects, the financial condition and results of operations of the Company.

Date: December **16, 2022****18, 2023**

/s/ OLE G. ROSGAARD

Ole G. Rosgaard

President and Chief Executive Officer

A signed original of this written statement required by Section 906 has been provided to Greif, Inc. and will be retained by Greif, Inc. and furnished to the Securities and Exchange Commission or its staff upon request.

**EXHIBIT 32.2**

**Certification Required by Rule 13a — 14(b) of the Securities Exchange Act of 1934 and Section 1350  
of Chapter 63 of Title 18 of the United States Code**

In connection with the Annual Report of Greif, Inc. (the "Company") on Form 10-K for the annual period ended **October 31, 2022****October 31, 2023**, as filed with the Securities and Exchange Commission on the date hereof (the "Report"), I, Lawrence A. Hilsheimer, Executive Vice President and Chief Financial Officer of the Company, certify, pursuant to 18 U.S.C. Section 1350, as adopted pursuant to Section 906 of the Sarbanes-Oxley Act of 2002, that to my knowledge:

- (1) The Report fully complies with the requirements of section 13(a) or 15(d) of the Securities Exchange Act of 1934; and
- (2) The information contained in the Report fairly presents, in all material respects, the financial condition and results of operations of the Company.

Date: December **16, 2022****18, 2023**

/s/ LAWRENCE A. HILSHEIMER

Lawrence A. Hilsheimer

Executive Vice President and Chief Financial Officer

A signed original of this written statement required by Section 906 has been provided to Greif, Inc. and will be retained by Greif, Inc. and furnished to the Securities and Exchange Commission or its staff upon request.

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