Title of each class

At June 30, 2022, 527,909,143 shares of common stock of the registrant were outstanding.

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549



FORM 10-Q

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

For the quarterly period ended June 30, 2022

OR

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

For the transition period from

to

Name of each exchange on which registered

Commission File Number: 1-768

CATERPILLAR INC.

(Exact name of registrant as specified in its charter)

Delaware 37-0602744

(State or other jurisdiction of incorporation) (IRS Employer I.D. No.)

510 Lake Cook Road, Suite 100, Deerfield, Illinois 60015

(Address of principal executive offices) (Zip Code)

Registrant's telephone number, including area code: (224) 551-4000

Former Name, Former Address and Former Fiscal Year, if Changed Since Last Report: $\mathbf{N/A}$

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

Trading Symbol (s)

| Common Stock (\$1.00 par value) | CAT | New Yo | rk Stock Exchange 1 | | | | | | | |
|---|---|---------------------------|-----------------------------|--|--|--|--|--|--|--|
| 8% Debentures due February 15, 2023 | CAT23 | New Yo | rk Stock Exchange | | | | | | | |
| 5.3% Debentures due September 15, 2035 | CAT35 | New Yo | rk Stock Exchange | | | | | | | |
| ¹ In addition to the New York Stock Exchange, Caterpillar common stock | is also listed on stock exchanges in Fran | nce and Switzerland. | | | | | | | | |
| Indicate by check mark whether the registrant (1) has filed all reports required 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 every Interactive Data File required to be submitted pursuant to Rule 405 of Regulation S-T (§232.405 of this chapter) during the preceding 12 months (or for such shorter period that the registrant was required to submit such files). Yes No I | | | | | | | | | | |
| Indicate by check mark whether the registrant is a large accelerated filer, a "large accelerated filer," "accelerated filer," "smaller reporting company," a | | | company. See definitions of | | | | | | | |
| Large accelerated filer | \boxtimes | Accelerated filer | | | | | | | | |
| Non-accelerated filer | | Smaller reporting company | | | | | | | | |
| | | Emerging growth company | | | | | | | | |
| 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 is a shell company (as defined in Rule 12b-2 of the Exchange Act). Yes No No | | | | | | | | | | |

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^{*} Item omitted because no answer is called for or item is not applicable.

Part I. FINANCIAL INFORMATION

Item 1. Financial Statements

Caterpillar Inc. **Consolidated Statement of Results of Operations** (Unaudited) (Dollars in millions except per share data)

| | | ns Ended June | ed June | |
|---|----------------------------|----------------------------|---------|--|
| | 2022 | 2021 | | |
| Sales and revenues: Sales of Machinery, Energy & Transportation Revenues of Financial Products Total sales and revenues | \$ 13,539 708 14,247 | \$ 12,193 696 12,889 | 6 | |
| | 14,247 | 12,889 | , | |
| Operating costs: | 9,975 | 0.001 | 1 | |
| Cost of goods sold Selling, general and administrative expenses | 9,975 1,425 | 8,881 1,364 | | |
| Research and development expenses | 480 | 446 | | |
| Interest expense of Financial Products | 120 | 116 | | |
| Other operating (income) expenses | 303 | 293 | 3 | |
| Total operating costs | 12,303 | 11,100 |) | |
| Operating profit | 1,944 | 1,789 |) | |
| Interest expense excluding Financial Products | 108 | 120 |) | |
| Other income (expense) | 260 | 201 | 1 | |
| Consolidated profit before taxes | 2,096 | 1,870 |) | |
| Provision (benefit) for income taxes | 427 | 470 |) | |
| Profit of consolidated companies | 1,669 | 1,400 |) | |
| Equity in profit (loss) of unconsolidated affiliated companies | 4 | 14 | 4 | |
| Profit of consolidated and affiliated companies | 1,673 | 1,414 | 4 | |
| Less: Profit (loss) attributable to noncontrolling interests | | 1 | l | |
| Profit ¹ | \$ 1,673 | \$ 1,413 | 3 | |
| Profit per common share | \$ 3.15 | \$ 2.58 | 3 | |
| Profit per common share – diluted ² | \$ 3.13 | \$ 2.56 | 5 | |
| Weighted-average common shares outstanding (millions) | | . | _ | |
| - Basic | 531.0 | 547.9 | | |
| - Diluted ² | 534.1 | 552.1 | l | |

Profit attributable to common shareholders.
 Diluted by assumed exercise of stock-based compensation awards using the treasury stock method.

Caterpillar Inc. Consolidated Statement of Comprehensive Income (Unaudited) (Dollars in millions)

| | Th | Three Months Ended June 30 | | | | |
|---|----|----------------------------|----|-------|--|--|
| | | 2022 | | 2021 | | |
| Profit of consolidated and affiliated companies | \$ | 1,673 | \$ | 1,414 | | |
| Other comprehensive income (loss), net of tax (Note 13): | | | | | | |
| Foreign currency translation: | | (659) | | 99 | | |
| Pension and other postretirement benefits: | | (1) | | (7) | | |
| Derivative financial instruments: | | (86) | | 43 | | |
| Available-for-sale securities: | | (43) | | 1 | | |
| Total other comprehensive income (loss), net of tax | | (789) | | 136 | | |
| Comprehensive income | | 884 | | 1,550 | | |
| Less: comprehensive income attributable to the noncontrolling interests | | | | 1 | | |
| Comprehensive income attributable to shareholders | \$ | 884 | \$ | 1,549 | | |

Caterpillar Inc. Consolidated Statement of Results of Operations (Unaudited)

(Dollars in millions except per share data)

| | Six Months I 2022 | Ended June 30 2021 |
|--|----------------------|-----------------------|
| Sales and revenues: | | |
| Sales of Machinery, Energy & Transportation | \$ 26,425 | \$ 23,384 |
| Revenues of Financial Products | 1,411 | 1,392 |
| Total sales and revenues | 27,836 | 24,776 |
| Operating costs: | | |
| Cost of goods sold | 19,534 | 16,893 |
| Selling, general and administrative expenses | 2,771 | 2,603 |
| Research and development expenses | 937 | 820 |
| Interest expense of Financial Products | 226 | 241 |
| Other operating (income) expenses | 569_ | 616 |
| Total operating costs | 24,037 | 21,173 |
| Operating profit | 3,799 | 3,603 |
| Interest expense excluding Financial Products | 217 | 262 |
| Other income (expense) | 513 | 526 |
| Consolidated profit before taxes | 4,095 | 3,867 |
| Provision (benefit) for income taxes | 896 | 945 |
| Profit of consolidated companies | 3,199 | 2,922 |
| Equity in profit (loss) of unconsolidated affiliated companies | 11 | 23 |
| Profit of consolidated and affiliated companies | 3,210 | 2,945 |
| Less: Profit (loss) attributable to noncontrolling interests | | 2 |
| Profit ¹ | \$ 3,210 | \$ 2,943 |
| Profit per common share | \$ 6.03 | \$ 5.38 |
| Profit per common share – diluted ² | \$ 5.99 | \$ 5.33 |
| Weighted-average common shares outstanding (millions) | | |
| – Basic | 532.6 | 547.1 |
| – Diluted ² | 536.1 | 551.8 |

¹ Profit attributable to common shareholders.

² Diluted by assumed exercise of stock-based compensation awards using the treasury stock method.

Caterpillar Inc. Consolidated Statement of Comprehensive Income (Unaudited) (Dollars in millions)

| | Six | Six Months Ended June 3 | | | | |
|---|-----|-------------------------|----|-------|--|--|
| | | 2022 | | 2021 | | |
| Profit of consolidated and affiliated companies | \$ | 3,210 | \$ | 2,945 | | |
| Other comprehensive income (loss), net of tax (Note 13): | | | | | | |
| Foreign currency translation: | | (774) | | (248) | | |
| Pension and other postretirement benefits: | | (2) | | (15) | | |
| Derivative financial instruments: | | (63) | | 12 | | |
| Available-for-sale securities: | | (107) | | (15) | | |
| Total other comprehensive income (loss), net of tax | | (946) | | (266) | | |
| Comprehensive income | | 2,264 | | 2,679 | | |
| Less: comprehensive income attributable to the noncontrolling interests | | | | 2 | | |
| Comprehensive income attributable to shareholders | \$ | 2,264 | \$ | 2,677 | | |

Caterpillar Inc. Consolidated Statement of Financial Position (Unaudited) (Dollars in millions)

| | June 30, 2022 | December 31, 2021 |
|--|------------------|----------------------|
| Assets | | |
| Current assets: | | |
| Cash and cash equivalents | \$ 6,014 | \$ 9,254 |
| Receivables – trade and other | 8,393 | 8,477 |
| Receivables – finance | 8,922 | 8,898 |
| Prepaid expenses and other current assets | 2,772 | 2,788 |
| Inventories | 15,881 | 14,038 |
| Total current assets | 41,982 | 43,455 |
| Property, plant and equipment – net | 11,744 | 12,090 |
| Long-term receivables – trade and other | 1,197 | 1,204 |
| Long-term receivables – finance | 12,372 | 12,707 |
| Noncurrent deferred and refundable income taxes | 2,121 | 1,840 |
| Intangible assets | 889 | 1,042 |
| Goodwill | 6,195 | 6,324 |
| Other assets | 4,607 | 4,131 |
| Total assets | \$ 81,107 | \$ 82,793 |
| Liabilities | | |
| Current liabilities: | | |
| Short-term borrowings: | | |
| Machinery, Energy & Transportation | \$ — | \$ 9 |
| Financial Products | 5,002 | 5,395 |
| Accounts payable | 8,092 | 8,154 |
| Accrued expenses | 3,782 | 3,757 |
| Accrued wages, salaries and employee benefits | 1,772 | 2,242 |
| Customer advances | 1,608 | 1,087 |
| Dividends payable | 633 | 595 |
| Other current liabilities | 2,333 | 2,256 |
| Long-term debt due within one year: | | |
| Machinery, Energy & Transportation | 124 | 45 |
| Financial Products | 5,617 | 6,307 |
| Total current liabilities | 28,963 | 29,847 |
| Long-term debt due after one year: | | |
| Machinery, Energy & Transportation | 9,589 | 9,746 |
| Financial Products | 16,630 | 16,287 |
| Liability for postemployment benefits | 5,160 | 5,592 |
| Other liabilities | 5,006 | 4,805 |
| Total liabilities | 65,348 | 66,277 |
| Commitments and contingencies (Notes 11 and 14) Shareholders' equity | | |
| Common stock of \$1.00 par value: | | |
| Authorized shares: 2,000,000,000 | | 6.000 |
| Issued shares: $(6/30/22 \text{ and } 12/31/21 - 814,894,624)$ at paid-in amount | 6,464 | 6,398 |
| Treasury stock $(6/30/22 - 286,985,481 \text{ shares}; 12/31/21 - 279,006,573 \text{ shares})$ at cost | (29,501) | (27,643) |
| Profit employed in the business | 41,263 | 39,282 |
| Accumulated other comprehensive income (loss) | (2,499) | (1,553) |
| Noncontrolling interests | 32 | 32 |
| Total shareholders' equity | 15,759 | 16,516 |
| Total liabilities and shareholders' equity | \$ 81,107 | \$ 82,793 |

Caterpillar Inc. Consolidated Statement of Changes in Shareholders' Equity (Unaudited) (Dollars in millions)

| | | ommon stock | 1 | Freasury stock | Profit employed in the business | | Accumulated other comprehensive income (loss) | | Noncontrolling interests | | Total |
|--|----|----------------|----|-------------------|--|----|---|----|--------------------------|----|---------|
| Three Months Ended June 30, 2021 | | , | | | | | | | | | |
| Balance at March 31, 2021 | \$ | 6,215 | \$ | (25,049) | \$ 36,697 | \$ | (1,290) | \$ | 44 | \$ | 16,617 |
| Profit of consolidated and affiliated companies | | _ | | _ | 1,413 | | _ | | 1 | | 1,414 |
| Foreign currency translation, net of tax | | _ | | _ | _ | | 99 | | _ | | 99 |
| Pension and other postretirement benefits, net of tax | | _ | | _ | _ | | (7) | | _ | | (7) |
| Derivative financial instruments, net of tax | | _ | | _ | _ | | 43 | | _ | | 43 |
| Available-for-sale securities, net of tax | | _ | | _ | _ | | 1 | | _ | | 1 |
| Dividends declared ¹ | | _ | | _ | (1,176) | | _ | | _ | | (1,176) |
| Common shares issued from treasury stock for stock-based compensation: 869,892 | | (2) | | 60 | _ | | _ | | _ | | 58 |
| Stock-based compensation expense | | 69 | | _ | | | _ | | _ | | 69 |
| Common shares repurchased: 1,161,955 ² | | _ | | (251) | _ | | _ | | _ | | (251) |
| Other | | 11 | | _ | _ | | _ | | 2 | | 13 |
| Balance at June 30, 2021 | \$ | 6,293 | \$ | (25,240) | \$ 36,934 | \$ | (1,154) | \$ | 47 | \$ | 16,880 |
| | _ | | | | | = | | = | | = | |
| Three Months Ended June 30, 2022 | | | | | | | | | | | |
| Balance at March 31, 2022 | \$ | 6,281 | \$ | (28,326) | \$ 40,820 | \$ | (1,710) | \$ | 32 | \$ | 17,097 |
| Profit of consolidated and affiliated companies | | _ | | _ | 1,673 | | _ | | _ | | 1,673 |
| Foreign currency translation, net of tax | | _ | | _ | _ | | (659) | | _ | | (659) |
| Pension and other postretirement benefits, net of tax | | _ | | _ | _ | | (1) | | _ | | (1) |
| Derivative financial instruments, net of tax | | _ | | _ | _ | | (86) | | _ | | (86) |
| Available-for-sale securities, net of tax | | _ | | _ | _ | | (43) | | _ | | (43) |
| Dividends declared ¹ | | _ | | _ | (1,230) | | _ | | _ | | (1,230) |
| Common shares issued from treasury stock for stock-based compensation: 416,751 | | 4 | | 28 | _ | | _ | | _ | | 32 |
| Stock-based compensation expense | | 67 | | _ | _ | | _ | | _ | | 67 |
| Common shares repurchased: 5,860,813 ² | | _ | | (1,204) | _ | | _ | | _ | | (1,204) |
| Other | | 112 | | 1 | _ | | _ | | _ | | 113 |
| Balance at June 30, 2022 | \$ | 6,464 | \$ | (29,501) | \$ 41,263 | \$ | (2,499) | \$ | 32 | \$ | 15,759 |

¹ Dividends per share of common stock of \$2.31 and \$2.14 were declared in the three months ended June 30, 2022 and 2021, respectively.

² See Note 12 for additional information.

Caterpillar Inc. Consolidated Statement of Changes in Shareholders' Equity (Unaudited) (Dollars in millions)

| | • | Common stock | Freasury stock | eı | Profit mployed in the ousiness | Accumulated other comprehensive income (loss) | Noncontrolling interests | Total |
|--|----|-----------------|-------------------|----|---|--|--------------------------|--------------|
| Six Months Ended June 30, 2021 | | | | | | | | |
| Balance at December 31, 2020 | \$ | 6,230 | \$ (25,178) | \$ | 35,167 | \$ (888) | \$ 47 | \$ 15,378 |
| Profit of consolidated and affiliated companies | | _ | _ | | 2,943 | _ | 2 | 2,945 |
| Foreign currency translation, net of tax | | _ | _ | | _ | (248) | _ | (248) |
| Pension and other postretirement benefits, net of tax | | _ | _ | | _ | (15) | _ | (15) |
| Derivative financial instruments, net of tax | | _ | _ | | _ | 12 | _ | 12 |
| Available-for-sale securities, net of tax | | _ | _ | | _ | (15) | _ | (15) |
| Dividends declared ¹ | | _ | _ | | (1,176) | _ | _ | (1,176) |
| Distribution to noncontrolling interests | | _ | _ | | _ | _ | (2) | (2) |
| Common shares issued from treasury stock for stock-based compensation: 3,329,575 | | (65) | 188 | | _ | _ | _ | 123 |
| Stock-based compensation expense | | 111 | _ | | _ | _ | _ | 111 |
| Common shares repurchased: 1,161,955 ² | | _ | (251) | | _ | _ | _ | (251) |
| Other | | 17 | 1 | | _ | _ | _ | 18 |
| Balance at June 30, 2021 | \$ | 6,293 | \$ (25,240) | \$ | 36,934 | \$ (1,154) | \$ 47 | \$ 16,880 |
| Six Months Ended June 30, 2022 | | | | | | | | |
| Balance at December 31, 2021 | \$ | 6,398 | \$ (27,643) | \$ | 39,282 | \$ (1,553) | \$ 32 | \$ 16,516 |
| Profit of consolidated and affiliated companies | | _ | _ | | 3,210 | _ | _ | 3,210 |
| Foreign currency translation, net of tax | | _ | _ | | _ | (774) | _ | (774) |
| Pension and other postretirement benefits, net of tax | | _ | _ | | _ | (2) | _ | (2) |
| Derivative financial instruments, net of tax | | _ | _ | | _ | (63) | _ | (63) |
| Available-for-sale securities, net of tax | | _ | _ | | _ | (107) | _ | (107) |
| Dividends declared ¹ | | _ | _ | | (1,229) | _ | _ | (1,229) |
| Common shares issued from treasury stock for stock-based compensation: 1,454,219 | | (61) | 65 | | _ | _ | _ | 4 |
| Stock-based compensation expense | | 107 | _ | | _ | _ | _ | 107 |
| Common shares repurchased: 9,432,497 ² | | _ | (1,924) | | _ | _ | _ | (1,924) |
| Other | | 20 | 1 | | _ | _ | _ | 21 |
| Balance at June 30, 2022 | \$ | 6,464 | \$ (29,501) | \$ | 41,263 | \$ (2,499) | \$ 32 | \$ 15,759 |

¹ Dividends per share of common stock of \$2.31 and \$2.14 were declared in the six months ended June 30, 2022 and 2021, respectively. ² See Note 12 for additional information.

Caterpillar Inc. Consolidated Statement of Cash Flow (Unaudited) (Millions of dollars)

| (-1.11010 01 4011115) | | ~ | | | | |
|--|-------------|--------------------------|----|---------|--|--|
| | | Six Months Ended June 30 | | | | |
| Cash flow from operating activities: | | 2022 | | 2021 | | |
| Profit of consolidated and affiliated companies | \$ | 3,210 | \$ | 2,945 | | |
| Adjustments for non-cash items: | Ψ | 3,210 | Ψ | 2,743 | | |
| Depreciation and amortization | | 1,110 | | 1,173 | | |
| Provision (benefit) for deferred income taxes | | (283) | | 68 | | |
| Other | | 49 | | (20) | | |
| Changes in assets and liabilities, net of acquisitions and divestitures: | | ., | | (=+) | | |
| Receivables – trade and other | | 283 | | (343) | | |
| Inventories | | (2,003) | | (1,179) | | |
| Accounts payable | | 427 | | 893 | | |
| Accrued expenses | | (80) | | 22 | | |
| Accrued wages, salaries and employee benefits | | (445) | | 618 | | |
| Customer advances | | 514 | | 49 | | |
| Other assets – net | | 86 | | (47) | | |
| Other liabilities – net | | (322) | | (133) | | |
| Net cash provided by (used for) operating activities | | 2,546 | | 4,046 | | |
| Cash flow from investing activities: | | | | | | |
| Capital expenditures – excluding equipment leased to others | | (586) | | (419) | | |
| Expenditures for equipment leased to others | | (688) | | (681) | | |
| Proceeds from disposals of leased assets and property, plant and equipment | | 468 | | 636 | | |
| Additions to finance receivables | | (6,705) | | (6,203) | | |
| Collections of finance receivables | | 6,519 | | 5,580 | | |
| Proceeds from sale of finance receivables | | 21 | | 27 | | |
| Investments and acquisitions (net of cash acquired) | | (36) | | (398) | | |
| Proceeds from sale of businesses and investments (net of cash sold) | | 1 | | 28 | | |
| Proceeds from sale of securities | | 1,204 | | 276 | | |
| Investments in securities | | (2,118) | | (500) | | |
| Other – net | | 32 | | (63) | | |
| Net cash provided by (used for) investing activities | | (1,888) | | (1,717) | | |
| Cash flow from financing activities: | | ()) | | () / | | |
| Dividends paid | | (1,187) | | (1,126) | | |
| Common stock issued, including treasury shares reissued | | 4 | | 123 | | |
| Common shares repurchased | | (1,924) | | (251) | | |
| Proceeds from debt issued (original maturities greater than three months): | | (1,>= 1) | | (201) | | |
| Machinery, Energy & Transportation | | _ | | 494 | | |
| Financial Products | | 4,015 | | 4,412 | | |
| Payments on debt (original maturities greater than three months): | | , | | , | | |
| Machinery, Energy & Transportation | | (13) | | (1,902) | | |
| Financial Products | | (4,233) | | (4,064) | | |
| Short-term borrowings – net (original maturities three months or less) | | (553) | | 1,460 | | |
| Other – net | | <u> </u> | | (2) | | |
| Net cash provided by (used for) financing activities | | (3,891) | | (856) | | |
| Effect of exchange rate changes on cash | | (7) | - | 3 | | |
| Increase (decrease) in cash, cash equivalents and restricted cash | | (3,240) | | 1,476 | | |
| Cash, cash equivalents and restricted cash at beginning of period | | 9,263 | | 9,366 | | |
| Cash, cash equivalents and restricted cash at end of period | \$ | 6,023 | \$ | 10,842 | | |
| , 1 | Ψ | 0,023 | | 10,012 | | |

Cash equivalents primarily represent short-term, highly liquid investments with original maturities of generally three months or less.

NOTES TO CONSOLIDATED FINANCIAL STATEMENTS (Unaudited)

1. A. Nature of operations

Information in our financial statements and related commentary are presented in the following categories:

Machinery, Energy & Transportation (ME&T) – We define ME&T as Caterpillar Inc. and its subsidiaries, excluding Financial Products. ME&T's information relates to the design, manufacturing and marketing of our products.

Financial Products – We define Financial Products as our finance and insurance subsidiaries, primarily Caterpillar Financial Services Corporation (Cat Financial) and Caterpillar Insurance Holdings Inc. (Insurance Services). Financial Products' information relates to the financing to customers and dealers for the purchase and lease of Caterpillar and other equipment.

B. Basis of presentation

In the opinion of management, the accompanying unaudited financial statements include all adjustments, consisting only of normal recurring adjustments, necessary for a fair statement of (a) the consolidated results of operations for the three and six months ended June 30, 2022 and 2021, (b) the consolidated comprehensive income for the three and six months ended June 30, 2022 and 2021, (c) the consolidated financial position at June 30, 2022 and December 31, 2021, (d) the consolidated changes in shareholders' equity for the three and six months ended June 30, 2022 and 2021 and (e) the consolidated cash flow for the six months ended June 30, 2022 and 2021. The financial statements have been prepared in conformity with generally accepted accounting principles in the United States of America (U.S. GAAP) and pursuant to the rules and regulations of the Securities and Exchange Commission (SEC).

Interim results are not necessarily indicative of results for a full year. The information included in this Form 10-Q should be read in conjunction with the audited financial statements and notes thereto included in our company's annual report on Form 10-K for the year ended December 31, 2021 (2021 Form 10-K).

The December 31, 2021 financial position data included herein is derived from the audited consolidated financial statements included in the 2021 Form 10-K but does not include all disclosures required by U.S. GAAP. Certain amounts for prior periods have been reclassified to conform to the current period financial statement presentation.

Cat Financial has end-user customers and dealers that are variable interest entities (VIEs) of which we are not the primary beneficiary. Our maximum exposure to loss from our involvement with these VIEs is limited to the credit risk inherently present in the financial support that we have provided. These risks were evaluated and reflected in our financial statements as part of our overall portfolio of finance receivables and related allowance for credit losses. See Note 11 for further discussions on a consolidated VIE.

2. New accounting guidance

A. Adoption of new accounting standards

We consider the applicability and impact of all ASUs. We adopted the following ASUs effective January 1, 2022, none of which had a material impact on our financial statements:

| <u>ASU</u> | <u>Description</u> |
|------------|--|
| 2020-06 | Debt with conversion and other options and derivatives and hedging |
| 2021-05 | Lessor - Variable lease payments |
| 2021-10 | Government assistance |

B. Accounting standards issued but not yet adopted

We consider the applicability and impact of all ASUs. We assessed the ASUs and determined that they either were not applicable or were not expected to have a material impact on our financial statements.

3. Sales and revenue contract information

Trade receivables represent amounts due from dealers and end users for the sale of our products, and include amounts due from wholesale inventory financing provided by Cat Financial for a dealer's purchase of inventory. We recognize trade receivables from dealers (including wholesale inventory financing) and end users in Receivables – trade and other and Long-term receivables – trade and other in the Consolidated Statement of Financial Position. Trade receivables from dealers and end users were \$6,953 million, \$7,267 million and \$6,310 million as of June 30, 2022, December 31, 2021 and December 31, 2020, respectively. Long-term trade receivables from dealers and end users were \$474 million, \$624 million and \$657 million as of June 30, 2022, December 31, 2021 and December 31, 2020, respectively.

We invoice in advance of recognizing the sale of certain products. We recognize advanced customer payments as a contract liability in Customer advances and Other liabilities in the Consolidated Statement of Financial Position. Contract liabilities were \$2,060 million, \$1,557 million and \$1,526 million as of June 30, 2022, December 31, 2021 and December 31, 2020, respectively. We reduce the contract liability when revenue is recognized. During the three and six months ended June 30, 2022, we recognized \$220 million and \$657 million, respectively, of revenue that was recorded as a contract liability at the beginning of 2022. During the three and six months ended June 30, 2021, we recognized \$241 million and \$674 million, respectively, of revenue that was recorded as a contract liability at the beginning of 2021.

As of June 30, 2022, we have entered into contracts with dealers and end users for which sales have not been recognized as we have not satisfied our performance obligations and transferred control of the products. The dollar amount of unsatisfied performance obligations for contracts with an original duration greater than one year is \$9.4 billion, with about one-half of the amount expected to be completed and revenue recognized in the twelve months following June 30, 2022. We have elected the practical expedient not to disclose unsatisfied performance obligations with an original contract duration of one year or less. Contracts with an original duration of one year or less are primarily sales to dealers for machinery, engines and replacement parts.

See Note 16 for further disaggregated sales and revenues information.

4. Stock-based compensation

Accounting for stock-based compensation requires that the cost resulting from all stock-based payments be recognized in the financial statements based on the grant date fair value of the award. Our stock-based compensation consists of stock options, restricted stock units (RSUs) and performance-based restricted stock units (PRSUs).

We recognized pretax stock-based compensation expense of \$67 million and \$107 million for the three and six months ended June 30, 2022, respectively, and \$69 million and \$111 million for the three and six months ended June 30, 2021, respectively.

The following table illustrates the type and fair value of the stock-based compensation awards granted during the six months ended June 30, 2022 and 2021, respectively:

| | Six M | lonths | Ended June 3 | 30, 202 | 22 | Six Months Ended June 30, 2021 | | | | | | | | |
|---------------|---|--------|--------------|---------|---|--------------------------------|----|----------------------------------|----|---|--|--|--|--|
| | Weighted-Average Shares Granted Fair Value Per Share | | | | eighted-Average rant Date Stock Price | Shares Granted | | ghted-Average Value Per Share | | ghted-Average nt Date Stock Price | | | | |
| Stock options | 1,029,202 | \$ | 51.69 | \$ | 196.70 | 1,084,821 | \$ | 56.30 | \$ | 219.76 | | | | |
| RSUs | 484,025 | \$ | 196.70 | \$ | 196.70 | 448,311 | \$ | 219.76 | \$ | 219.76 | | | | |
| PRSUs | 258,900 | \$ | 196.70 | \$ | 196.70 | 266,894 | \$ | 219.76 | \$ | 219.76 | | | | |

The following table provides the assumptions used in determining the fair value of the stock-based awards for the six months ended June 30, 2022 and 2021, respectively:

| | Gran | t Year |
|-----------------------------------|---------------|---------------|
| | 2022 | 2021 |
| Weighted-average dividend yield | 2.60% | 2.60% |
| Weighted-average volatility | 31.7% | 32.9% |
| Range of volatilities | 25.3% - 36.8% | 29.2% - 45.8% |
| Range of risk-free interest rates | 1.03% - 2.00% | 0.06% - 1.41% |
| Weighted-average expected lives | 8 years | 8 years |

As of June 30, 2022, the total remaining unrecognized compensation expense related to nonvested stock-based compensation awards was \$230 million, which will be amortized over the weighted-average remaining requisite service periods of approximately 1.8 years.

5. Derivative financial instruments and risk management

Our earnings and cash flow are subject to fluctuations due to changes in foreign currency exchange rates, interest rates and commodity prices. Our Risk Management Policy (policy) allows for the use of derivative financial instruments to prudently manage foreign currency exchange rate, interest rate and commodity price exposures. Our policy specifies that derivatives are not to be used for speculative purposes. Derivatives that we use are primarily foreign currency forward, option and cross currency contracts, interest rate contracts and commodity forward and option contracts. Our derivative activities are subject to the management, direction and control of our senior financial officers. We present at least annually to the Audit Committee of the Board of Directors on our risk management practices, including our use of financial derivative instruments.

We recognize all derivatives at their fair value on the Consolidated Statement of Financial Position. On the date the derivative contract is entered into, we designate the derivative as (1) a hedge of the fair value of a recognized asset or liability (fair value hedge), (2) a hedge of a forecasted transaction or the variability of cash flow (cash flow hedge) or (3) an undesignated instrument. We record in current earnings changes in the fair value of a derivative that is qualified, designated and highly effective as a fair value hedge, along with the gain or loss on the hedged recognized asset or liability that is attributable to the hedged risk. We record in Accumulated other comprehensive income (loss) (AOCI) changes in the fair value of a derivative that is qualified, designated and highly effective as a cash flow hedge, to the extent effective, on the Consolidated Statement of Financial Position until we reclassify them to earnings in the same period or periods during which the hedged transaction affects earnings. We report changes in the fair value of undesignated derivative instruments in current earnings. We classify cash flows from designated derivative financial instruments within the same category as the item being hedged on the Consolidated Statement of Cash Flow. We include cash flows from undesignated derivative financial instruments in the investing category on the Consolidated Statement of Cash Flow.

We formally document all relationships between hedging instruments and hedged items, as well as the risk-management objective and strategy for undertaking various hedge transactions. This process includes linking all derivatives that are designated as fair value hedges to specific assets and liabilities on the Consolidated Statement of Financial Position and linking cash flow hedges to specific forecasted transactions or variability of cash flow.

We also formally assess, both at the hedge's inception and on an ongoing basis, whether the designated derivatives that are used in hedging transactions are highly effective in offsetting changes in fair values or cash flow of hedged items. When a derivative is determined not to be highly effective as a hedge or the underlying hedged transaction is no longer probable, we discontinue hedge accounting prospectively, in accordance with the derecognition criteria for hedge accounting.

Foreign Currency Exchange Rate Risk

Foreign currency exchange rate movements create a degree of risk by affecting the U.S. dollar value of sales made and costs incurred in foreign currencies. Movements in foreign currency rates also affect our competitive position as these changes may affect business practices and/or pricing strategies of non-U.S.-based competitors. Additionally, we have balance sheet positions denominated in foreign currencies, thereby creating exposure to movements in exchange rates.

Our ME&T operations purchase, manufacture and sell products in many locations around the world. As we have a diversified revenue and cost base, we manage our future foreign currency cash flow exposure on a net basis. We use foreign currency forward and option contracts to manage unmatched foreign currency cash inflow and outflow. Our objective is to minimize the risk of exchange rate movements that would reduce the U.S. dollar value of our foreign currency cash flow. Our policy allows for managing anticipated foreign currency cash flow for up to approximately five years. As of June 30, 2022, the maximum term of these outstanding contracts at inception was approximately 60 months.

We generally designate as cash flow hedges at inception of the contract any forward or option contracts that meet the requirements for hedge accounting and the maturity extends beyond the current quarter-end. We perform designation on a specific exposure basis to support hedge accounting. The remainder of ME&T foreign currency contracts are undesignated.

In managing foreign currency risk for our Financial Products operations, our objective is to minimize earnings volatility resulting from conversion and the remeasurement of net foreign currency balance sheet positions and future transactions denominated in foreign currencies. Our policy allows the use of foreign currency forward, option and cross currency contracts to offset the risk of currency mismatch between our assets and liabilities and exchange rate risk associated with future transactions denominated in foreign currencies. Our foreign currency forward and option contracts are primarily undesignated. We designate fixed-to-fixed cross currency contracts as cash flow hedges to protect against movements in exchange rates on foreign currency fixed-rate assets and liabilities.

Interest Rate Risk

Interest rate movements create a degree of risk by affecting the amount of our interest payments and the value of our fixed-rate debt. Our practice is to use interest rate contracts to manage our exposure to interest rate changes.

Our ME&T operations generally use fixed-rate debt as a source of funding. Our objective is to minimize the cost of borrowed funds. Our policy allows us to enter into fixed-to-floating interest rate contracts and forward rate agreements to meet that objective. We designate fixed-to-floating interest rate contracts as fair value hedges at inception of the contract, and we designate certain forward rate agreements as cash flow hedges at inception of the contract.

Financial Products operations has a match-funding policy that addresses interest rate risk by aligning the interest rate profile (fixed or floating rate and duration) of Cat Financial's debt portfolio with the interest rate profile of our receivables portfolio within predetermined ranges on an ongoing basis. In connection with that policy, we use interest rate derivative instruments to modify the debt structure to match assets within the receivables portfolio. This matched funding reduces the volatility of margins between interest-bearing assets and interest-bearing liabilities, regardless of which direction interest rates move.

Our policy allows us to use fixed-to-floating, floating-to-fixed and floating-to-floating interest rate contracts to meet the match-funding objective. We designate fixed-to-floating interest rate contracts as fair value hedges to protect debt against changes in fair value due to changes in the benchmark interest rate. We designate most floating-to-fixed interest rate contracts as cash flow hedges to protect against the variability of cash flows due to changes in the benchmark interest rate.

We have, at certain times, liquidated fixed-to-floating and floating-to-fixed interest rate contracts at both ME&T and Financial Products. We amortize the gains or losses associated with these contracts at the time of liquidation into earnings over the original term of the previously designated hedged item.

Commodity Price Risk

Commodity price movements create a degree of risk by affecting the price we must pay for certain raw materials. Our policy is to use commodity forward and option contracts to manage the commodity risk and reduce the cost of purchased materials.

Our ME&T operations purchase base and precious metals embedded in the components we purchase from suppliers. Our suppliers pass on to us price changes in the commodity portion of the component cost. In addition, we are subject to price changes on energy products such as natural gas and diesel fuel purchased for operational use.

Our objective is to minimize volatility in the price of these commodities. Our policy allows us to enter into commodity forward and option contracts to lock in the purchase price of a portion of these commodities within a five-year horizon. All such commodity forward and option contracts are undesignated.

The location and fair value of derivative instruments reported in the Consolidated Statement of Financial Position were as follows:

| (Millions of dollars) | Fair Value | | | | | | | | | | | | |
|----------------------------|------------|---------------|----|------------------------|----|---------|-------------------|--------------------------|--|--|--|--|--|
| | | June 30, 2022 | | | | | December 31, 2021 | | | | | | |
| | A | ssets1 | Li | abilities ² | | Assets1 | | Liabilities ² | | | | | |
| Designated derivatives | | | | | | | | | | | | | |
| Foreign exchange contracts | \$ | 464 | \$ | (167) | \$ | 228 | \$ | (64) | | | | | |
| Interest rate contracts | | 98 | | (160) | | 38 | | (15) | | | | | |
| Total | \$ | 562 | \$ | (327) | \$ | 266 | \$ | (79) | | | | | |
| Undesignated derivatives | | | | | | | | | | | | | |
| Foreign exchange contracts | \$ | 98 | \$ | (100) | \$ | 46 | \$ | (42) | | | | | |
| Commodity contracts | | 32 | | (25) | | 30 | | (9) | | | | | |
| Total | \$ | 130 | \$ | (125) | \$ | 76 | \$ | (51) | | | | | |

¹ Assets are classified on the Consolidated Statement of Financial Position as Receivables - trade and other or Long-term receivables - trade and other.

The total notional amounts of the derivative instruments as of June 30, 2022 and December 31, 2021 were \$22.5 billion and \$18.9 billion, respectively. The notional amounts of the derivative financial instruments do not represent amounts exchanged by the parties. We calculate the amounts exchanged by the parties by referencing the notional amounts and by other terms of the derivatives, such as foreign currency exchange rates, interest rates or commodity prices.

Gains (Losses) on derivative instruments are categorized as follows:

| (Millions of dollars) | Three Months Ended June 30 | | | | | | | | | | | | |
|----------------------------|----------------------------|--|-----------------------------------|-----------|------------------|------|--|------|----|------|----|------|--|
| | Fair ' | Value / Unde | signat | ed Hedges | Cash Flow Hedges | | | | | | | | |
| | Gain Consol | s (Losses) Ro idated State Opera | Gains (Losses) Recognized in AOCI | | | | Gains (Losses) Reclassified from AOCI ² | | | | | | |
| | 2022 | | | 2021 | | 2022 | | 2021 | | 2022 | | 2021 | |
| Foreign exchange contracts | \$ | 33 | \$ | (47) | \$ | 186 | \$ | 16 | \$ | 323 | \$ | (32) | |
| Interest rate contracts | | 9 | | 7 | | 21 | | 1 | | (2) | | (7) | |
| Commodity contracts | | (48) | | 45 | | _ | | _ | | _ | | _ | |
| Total | \$ | (6) | \$ | 5 | \$ | 207 | \$ | 17 | \$ | 321 | \$ | (39) | |

¹ Foreign exchange contract and Commodity contract gains (losses) are included in Other income (expense). Interest rate contract gains (losses) are primarily included in Interest expense excluding Financial Products.

² Liabilities are classified on the Consolidated Statement of Financial Position as Accrued expenses or Other liabilities.

² Foreign exchange contract gains (losses) are primarily included in Other income (expense) in the Consolidated Statement of Results of Operations. Interest rate contract gains (losses) are primarily included in Interest expense of Financial Products in the Consolidated Statement of Results of Operations.

| (Millions of dollars) | Six Months Ended June 30 | | | | | | | | | | | | |
|----------------------------|--------------------------|--------------|-----------------------------|-------------------------------|-----------------------------------|------|----|------|--|------|------|------|--|
| | Fair | Value / Un | designa | ated Hedges | Cash Flow Hedges | | | | | | | | |
| | Gair Conso | olidated Sta | Recogn tement rations | nized on the of Results of | Gains (Losses) Recognized in AOCI | | | | Gains (Losses) Reclassified from AOCI ² | | | | |
| | 2 | 2022 | | 2021 | | 2022 | | 2021 | | 2022 | 2021 | | |
| Foreign exchange contracts | \$ | (30) | \$ | 31 | \$ | 177 | \$ | 88 | \$ | 349 | \$ | 97 | |
| Interest rate contracts | | 17 | | 13 | | 77 | | 8 | | (9) | | (18) | |
| Commodity contract | | 45 | | 65 | | _ | | _ | | _ | | _ | |
| Total | \$ | 32 | \$ | 109 | \$ | 254 | \$ | 96 | \$ | 340 | \$ | 79 | |

¹ Foreign exchange contract and Commodity contract gains (losses) are included in Other income (expense). Interest rate contract gains (losses) are primarily included in Interest expense of Financial Products.

The following amounts were recorded on the Consolidated Statement of Financial Position related to cumulative basis adjustments for fair value hedges:

| (Millions of dollars) | Car | rying Value of | the Hedged | Liabilities | Cumulative Amount of Fair Value Hedging Adjustment Included in the Carrying Value of th Hedged Liabilities | | | | | | |
|------------------------------------|------|----------------|------------|--------------|--|----------|--------|-------------|--|--|--|
| | June | 2 30, 2022 | Deceml | per 31, 2021 | June | 30, 2022 | Decemb | er 31, 2021 | | | |
| Long-term debt due within one year | \$ | 749 | \$ | 755 | \$ | (1) | \$ | 5 | | | |
| Long-term debt due after one year | | 3,350 | | 1,304 | | (125) | | (2) | | | |
| Total | \$ | 4,099 | \$ | 2,059 | \$ | (126) | \$ | 3 | | | |

We enter into International Swaps and Derivatives Association (ISDA) master netting agreements within ME&T and Financial Products that permit the net settlement of amounts owed under their respective derivative contracts. Under these master netting agreements, net settlement generally permits the company or the counterparty to determine the net amount payable for contracts due on the same date and in the same currency for similar types of derivative transactions. The master netting agreements generally also provide for net settlement of all outstanding contracts with a counterparty in the case of an event of default or a termination event.

Collateral is generally not required of the counterparties or of our company under the master netting agreements. As of June 30, 2022 and December 31, 2021, no cash collateral was received or pledged under the master netting agreements.

The effect of the net settlement provisions of the master netting agreements on our derivative balances upon an event of default or termination event was as follows:

| (Millions of dollars) | June 3 | 30, 2022 | | December 31, 2021 | | | | | |
|----------------------------------|------------|----------|----------|-------------------|-------|-------------|-------|--|--|
| | Assets | Lia | bilities | A | ssets | Liabilities | | | |
| Gross Amounts Recognized | \$ 692 | \$ | (452) | \$ | 342 | \$ | (130) | | |
| Financial Instruments Not Offset | (283) | | 283 | | (114) | | 114 | | |
| Cash Collateral Received | | | | | | | | | |
| Net Amount | \$ 409 | \$ | (169) | \$ | 228 | \$ | (16) | | |

² Foreign exchange contract gains (losses) are primarily included in Other income (expense). Interest rate contract gains (losses) are primarily included in Interest expense of Financial Products

6. Inventories

Inventories (principally using the last-in, first-out (LIFO) method) were comprised of the following:

| (Millions of dollars) | June 30, 2022 | | December 31, 2021 | | | | |
|-----------------------|------------------|----|----------------------|--|--|--|--|
| Raw materials | \$ 6,12 | \$ | 5,528 | | | | |
| Work-in-process | 1,60 | ļ | 1,318 | | | | |
| Finished goods | 7,85 |) | 6,907 | | | | |
| Supplies | 29 | 3 | 285 | | | | |
| Total inventories | \$ 15,88 | \$ | 14,038 | | | | |

7. Intangible assets and goodwill

A. Intangible assets

Intangible assets were comprised of the following:

| | June 30, 2022 | | | | | | | | | |
|---|------------------------------------|---------------------|--|---|--|---|--|--|--|--|
| Weighted Amortizable Life (Years) | Gross Carrying Amount | | | | | Net | | | | |
| 16 | \$ | 2,220 | \$ | (1,593) | \$ | 627 | | | | |
| 12 | | 1,473 | | (1,256) | | 217 | | | | |
| 16 | | 131 | | (86) | | 45 | | | | |
| 14 | \$ | 3,824 | \$ | (2,935) | \$ | 889 | | | | |
| | Amortizable Life (Years) 16 12 16 | Amortizable C A | Amortizable Life (Years) Carrying Amount 16 \$ 2,220 12 1,473 16 131 | Weighted Amortizable Life (Years) Gross Carrying Amount Acc Amount 16 \$ 2,220 \$ 12 1,473 16 131 | Weighted Amortizable Life (Years) Gross Carrying Amount Accumulated Amortization 16 \$ 2,220 \$ (1,593) 12 1,473 (1,256) 16 131 (86) | Weighted Amortizable Life (Years) Gross Carrying Amount Accumulated Amortization 16 \$ 2,220 \$ (1,593) \$ 12 16 131 (86) | | | | |

| | | | | Decen | nber 31, 2021 | |
|--------------------------------------|---|----|-------|-------|---------------------------|-------------|
| | Weighted Amortizable Life (Years) Gross Carrying Amount 15 \$ 2,421 12 1,472 14 156 14 \$ 4,049 | | | | ccumulated nortization | Net |
| Customer relationships | 15 | \$ | 2,421 | \$ | (1,709) | \$ 712 |
| Intellectual property | 12 | | 1,472 | | (1,192) | 280 |
| Other | 14 | | 156 | | (106) | 50 |
| Total finite-lived intangible assets | 14 | \$ | 4,049 | \$ | (3,007) | \$ 1,042 |

Amortization expense for the three and six months ended June 30, 2022 was \$71 million and \$143 million, respectively. Amortization expense for the three and six months ended June 30, 2021 was \$76 million and \$153 million, respectively. Amortization expense related to intangible assets is expected to be:

| (Millions of dollars) | | | | | |
|---------------------------------|-------|-------|-------|------|------------|
| Remaining Six Months of 2022 | 2023 | 2024 | 2025 | 2026 | Thereafter |
| \$141 | \$224 | \$166 | \$156 | \$86 | \$116 |

B. Goodwill

No goodwill was impaired during the six months ended June 30, 2022 or 2021.

The changes in carrying amount of goodwill by reportable segment for the six months ended June 30, 2022 were as follows:

| (Millions of dollars) | Dec | cember 31, 2021 | Acqı | iisitions | Other Adj | ustments 1 | June 30, 2022 |
|-------------------------|-----|--------------------|------|-----------|-----------|------------|------------------|
| Construction Industries | | | | | | | |
| Goodwill | \$ | 302 | \$ | _ | \$ | (27) | \$ 275 |
| Impairments | | (22) | | | | | (22) |
| Net goodwill | | 280 | | | | (27) | 253 |
| Resource Industries | | | | | | | |
| Goodwill | | 4,182 | | _ | | (66) | 4,116 |
| Impairments | | (1,175) | | _ | | _ | (1,175) |
| Net goodwill | | 3,007 | | | | (66) | 2,941 |
| Energy & Transportation | | | | | | | |
| Goodwill | | 2,985 | | 25 | | (54) | 2,956 |
| All Other ² | | | | | | | |
| Goodwill | | 52 | | _ | | (7) | 45 |
| Consolidated total | | | | | | | |
| Goodwill | | 7,521 | | 25 | | (154) | 7,392 |
| Impairments | | (1,197) | | | | | (1,197) |
| Net goodwill | \$ | 6,324 | \$ | 25 | \$ | (154) | \$ 6,195 |

¹ Other adjustments are comprised primarily of foreign currency translation.

8. Investments in debt and equity securities

We have investments in certain debt and equity securities, which we record at fair value and primarily include in Other assets in the Consolidated Statement of Financial Position.

We classify debt securities primarily as available-for-sale. We include the unrealized gains and losses arising from the revaluation of available-for-sale debt securities, net of applicable deferred income taxes, in equity (AOCI in the Consolidated Statement of Financial Position). We include the unrealized gains and losses arising from the revaluation of the equity securities in Other income (expense) in the Consolidated Statement of Results of Operations. We generally determine realized gains and losses on sales of investments using the specific identification method for available-for-sale debt and equity securities and include them in Other income (expense) in the Consolidated Statement of Results of Operations.

The cost basis and fair value of available-for-sale debt securities with unrealized gains and losses included in equity (AOCI in the Consolidated Statement of Financial Position) were as follows:

² Includes All Other operating segment (See Note 16).

| Available-for-sale debt securities | | Jı | ine 30, 2022 | | | | Dec | ember 31, 202 | 1 | |
|--|---|----|--------------|----|-------|---------------|---|---------------|---------------|-------|
| (Millions of dollars) | Unrealized Pretax Net Cost Gains Fair Basis (Losses) Value | | | | | Cost Basis | Unrealized Pretax Net Gains (Losses) | | Fair Value | |
| Government debt | | | | | | | _ | | | |
| U.S. treasury bonds | \$ 10 | \$ | _ | \$ | 10 | \$ 10 | \$ | _ | \$ | 10 |
| Other U.S. and non-U.S. government bonds | 57 | | (2) | | 55 | 61 | | _ | | 61 |
| Corporate bonds | | | | | | | | | | |
| Corporate bonds | 2,106 | | (77) | | 2,029 | 1,027 | | 19 | | 1,046 |
| Asset-backed securities | 185 | | (4) | | 181 | 175 | | 1 | | 176 |
| Mortgage-backed debt securities | | | | | | | | | | |
| U.S. governmental agency | 384 | | (17) | | 367 | 319 | | 6 | | 325 |
| Residential | 3 | | _ | | 3 | 4 | | _ | | 4 |
| Commercial | 138 | | (6) | | 132 | 98 | | 1 | | 99 |
| Total available-for-sale debt securities | \$ 2,883 | \$ | (106) | \$ | 2,777 | \$ 1,694 | \$ | 27 | \$ | 1,721 |

Available-for-sale debt securities in an unrealized loss position:

| | June 30, 2022 | | | | | | | | | | | | | |
|--|---------------|---------------|------|----------------------|---------------|---------|----------------------|-----------|-------|---------------|----|----------------------|--|--|
| | | Less than | 12 ı | months 1 | | 12 mont | hs o | or more 1 | Total | | | | | |
| (Millions of dollars) | | Fair Value | | Unrealized Losses | Fair Value | | Unrealized Losses | | | Fair Value | | Unrealized Losses | | |
| Government debt | | | | | | | | | | | | | | |
| Other U.S. and non-U.S. government bonds | \$ | 29 | \$ | 1 | \$ | 6 | \$ | _ | \$ | 35 | \$ | 1 | | |
| Corporate bonds | | | | | | | | | | | | | | |
| Corporate bonds | | 1,812 | | 69 | | 73 | | 9 | | 1,885 | | 78 | | |
| Asset-backed securities | | 130 | | 5 | | 4 | | _ | | 134 | | 5 | | |
| Mortgage-backed debt securities | | | | | | | | | | | | | | |
| U.S. governmental agency | | 292 | | 15 | | 23 | | 3 | | 315 | | 18 | | |
| Commercial | | 101 | | 7 | | 1 | | _ | | 102 | | 7 | | |

2,364

I.... 20 2022

107

12

2,471

109

| | | December 31, 2021 | | | | | | | | | | | | | |
|--|----------------|-------------------|-------------|-----------------|--|--------------|----------------------|----------|---------------|-----|----------------------|---|--|--|--|
| | <u> </u> | Less than | 12 months 1 | | | 12 montl | hs or | r more 1 | Total | | | | | | |
| (Millions of dollars) | | Fair Value | | ealized sses | Fair Value | | Unrealized Losses | | Fair Value | | Unrealized Losses | | | | |
| Corporate bonds | | | - | | | | | | | | | | | | |
| Corporate bonds | \$ | 270 | \$ | 4 | \$ | 33 | \$ | 1 | \$ | 303 | \$ | 5 | | | |
| Mortgage-backed debt securities | | | | | | | | | | | | | | | |
| U.S. governmental agency | | 89 | | 1 | | 22 | | _ | | 111 | | 1 | | | |
| Total | \$ | 359 | \$ | 5 | \$ | 55 | \$ | 1 | \$ | 414 | \$ | 6 | | | |
| Indicates the length of time that individual | and the second | acon in a | ontinuo | ia iimraali | ====================================== | oga mogition | _ | | | | | | | | |

¹ Indicates the length of time that individual securities have been in a continuous unrealized loss position.

The unrealized losses on our investments in government debt, corporate bonds and mortgage-backed debt securities relate to changes in interest rates and credit-related yield spreads since time of purchase. We do not intend to sell the investments, and it is not likely that we will be required to sell the investments before recovery of their respective amortized cost basis. In addition, we did not expect credit-related losses on these investments as of June 30, 2022.

The cost basis and fair value of available-for-sale debt securities at June 30, 2022, by contractual maturity, are shown below. Expected maturities will differ from contractual maturities because borrowers may have the right to prepay and creditors may have the right to call obligations.

| | June 30, 2022 | | | | | | | | |
|---|---------------|---------|----|-----------|--|--|--|--|--|
| (Millions of dollars) | Cos | t Basis | F | air Value | | | | | |
| Due in one year or less | \$ | 591 | \$ | 587 | | | | | |
| Due after one year through five years | | 1,403 | | 1,348 | | | | | |
| Due after five years through ten years | | 290 | | 269 | | | | | |
| Due after ten years | | 74 | | 71 | | | | | |
| U.S. governmental agency mortgage-backed securities | | 384 | | 367 | | | | | |
| Residential mortgage-backed securities | | 3 | | 3 | | | | | |
| Commercial mortgage-backed securities | | 138 | | 132 | | | | | |
| Total debt securities – available-for-sale | \$ | 2,883 | \$ | 2,777 | | | | | |

| Sales of available-for-sale debt securities: | | | | | | |
|---|--------------|------|-----------|--------------|------|---------|
| | Three Months | Ende | d June 30 | Six Months E | nded | June 30 |
| (Millions of dollars) | 2022 | | 2021 | 2022 | | 2021 |
| Proceeds from the sale of available-for-sale securities | \$ 174 | \$ | 125 | \$ 270 | \$ | 225 |
| Gross gains from the sale of available-for-sale securities | _ | | 2 | 1 | | 2 |
| Gross losses from the sale of available-for-sale securities | _ | | _ | 1 | | _ |

In addition, we had \$659 million and \$964 million of investments in time deposits classified as held-to-maturity debt securities as of June 30, 2022 and December 31, 2021, respectively. All these investments mature within one year and we include them in Prepaid expenses and other current assets in the Consolidated Statement of Financial Position. We record held-to-maturity debt securities at amortized cost, which approximates fair value.

For the three months ended June 30, 2022 and 2021, the net unrealized gains (losses) for equity securities held at June 30, 2022 and 2021 were \$(48) million and \$21 million, respectively. For the six months ended June 30, 2022 and 2021, the net unrealized gains (losses) for equity securities held at June 30, 2022 and 2021 were \$(59) million and \$38 million, respectively.

9. Postretirement benefits

A. Pension and postretirement benefit costs

| | | | efits | 3 | Non-U.S Ben | efits | 1 | | Other Postretirement Benefits | | | |
|--|----|-------|-------|-------|----------------|-------|----|------|-------------------------------------|------|-------|------|
| | | | e 30 | | _ | Jun | | | | | ie 30 | |
| (Millions of dollars) | _ | 2022 | | 2021 | | 2022 | | 2021 | | 2022 | | 2021 |
| For the three months ended: | | | | | | | | | | | | |
| Components of net periodic benefit cost: | | | | | | | | | | | | |
| Service cost | \$ | _ | \$ | _ | \$ | 12 | \$ | 15 | \$ | 25 | \$ | 25 |
| Interest cost | | 101 | | 83 | | 18 | | 13 | | 20 | | 16 |
| Expected return on plan assets | | (168) | | (179) | | (33) | | (33) | | (2) | | (1) |
| Amortization of prior service cost (credit) | | | | | | | _ | | | (2) | | (10) |
| Net periodic benefit cost (benefit) 1 | \$ | (67) | \$ | (96) | \$ | (3) | \$ | (5) | \$ | 41 | \$ | 30 |
| For the six months ended: | | | | | | | | | | | | |
| Components of net periodic benefit cost: | | | | | | | | | | | | |
| Service cost | \$ | _ | \$ | _ | \$ | 25 | \$ | 29 | \$ | 50 | \$ | 50 |
| Interest cost | | 201 | | 165 | | 36 | | 27 | | 40 | | 32 |
| Expected return on plan assets | | (335) | | (358) | | (67) | | (65) | | (6) | | (3) |
| Amortization of prior service cost (credit) | | | | | | | | | | (3) | | (20) |
| Net periodic benefit cost (benefit) ¹ | \$ | (134) | \$ | (193) | \$ | (6) | \$ | (9) | \$ | 81 | \$ | 59 |

The service cost component is included in Operating costs in the Consolidated Statement of Results of Operations. All other components are included in Other income (expense) in the Consolidated Statement of Results of Operations.

We made \$45 million and \$255 million of contributions to our pension and other postretirement plans during the three and six months ended June 30, 2022. We currently anticipate full-year 2022 contributions of approximately \$357 million.

B. Defined contribution benefit costs

Total company costs related to our defined contribution plans, which are included in Operating Costs in the Consolidated Statement of Results of Operations, were as follows:

| | Thre | ee Months | Six Months Ended June 30 | | | | | |
|-----------------------|------|-----------|--------------------------|------|------|----|-----|--|
| (Millions of dollars) | 20 | 2021 | | 2022 | 2021 | | | |
| U.S. Plans | \$ | 34 | \$ 115 | \$ | 149 | \$ | 240 | |
| Non-U.S. Plans | | 27 | 28 | | 56 | | 54 | |
| | \$ | 61 | \$ 143 | \$ | 205 | \$ | 294 | |

The decrease in the U.S. defined contribution benefit costs for the six months ended June 30, 2022 was primarily due to the fair value adjustments related to our non-qualified deferred compensation plans.

10. Leases

Revenues from finance and operating leases, primarily included in Revenues of Financial Products on the Consolidated Statement of Results of Operations, were as follows:

| | Thr | ee Months F | Six Months Ended June 30 | | | | | | |
|-------------------------|-----|-------------|--------------------------|------|----|------|------|-----|--|
| (Millions of dollars) | 2 | 022 | 2 | 2021 | | 2022 | 2021 | | |
| Finance lease revenue | \$ | 109 | \$ | 124 | \$ | 221 | \$ | 249 | |
| Operating lease revenue | | 271 | | 281 | | 549 | | 575 | |
| Total | \$ | 380 | \$ | 405 | \$ | 770 | \$ | 824 | |

We present revenues net of sales and other related taxes.

11. Guarantees and product warranty

Caterpillar dealer performance guarantees

We have provided an indemnity to a third-party insurance company for potential losses related to performance bonds issued on behalf of Caterpillar dealers. The bonds have varying terms and are issued to insure governmental agencies against nonperformance by certain dealers. We also provided guarantees to third-parties related to the performance of contractual obligations by certain Caterpillar dealers. These guarantees have varying terms and cover potential financial losses incurred by the third parties resulting from the dealers' nonperformance.

In 2016, we provided a guarantee to an end user related to the performance of contractual obligations by a Caterpillar dealer. Under the guarantee, which was set to expire in 2025, non-performance by the Caterpillar dealer could require Caterpillar to satisfy the contractual obligations by providing goods, services or financial compensation to the end user up to an annual designated cap. This guarantee was terminated during the first quarter of 2022. No payments were made under the guarantee.

Supplier consortium performance guarantee

We provided a guarantee to a customer in Europe related to the performance of contractual obligations by a supplier consortium to which one of our Caterpillar subsidiaries was a member. The guarantee covered potential damages incurred by the customer resulting from the supplier consortium's non-performance. The damages were capped except for failure of the consortium to meet certain obligations outlined in the contract in the normal course of business. The guarantee expired during the second quarter of 2022.

We have dealer performance guarantees and third-party performance guarantees that do not limit potential payment to end users related to indemnities and other commercial contractual obligations. In addition, we have entered into contracts involving industry standard indemnifications that do not limit potential payment. For these unlimited guarantees, we are unable to estimate a maximum potential amount of future payments that could result from claims made.

No significant loss has been experienced or is anticipated under any of these guarantees. At June 30, 2022 and December 31, 2021, the related recorded liability was \$3 million and \$5 million respectively. The maximum potential amount of future payments that we can estimate (undiscounted and without reduction for any amounts that may possibly be recovered under recourse or collateralized provisions) and we could be required to make under the guarantees was as follows:

| (Millions of dollars) | ine 30, 2022 | De | cember 31, 2021 |
|---|-----------------|----|--------------------|
| Caterpillar dealer performance guarantees | \$ 186 | \$ | 747 |
| Supplier consortium performance guarantee | 17 | | 242 |
| Other guarantees | 177 | | 232 |
| Total guarantees | \$ 380 | \$ | 1,221 |

Cat Financial provides guarantees to purchase certain loans of Caterpillar dealers from a special-purpose corporation (SPC) that qualifies as a variable interest entity. The purpose of the SPC is to provide short-term working capital loans to Caterpillar dealers. This SPC issues commercial paper and uses the proceeds to fund its loan program. Cat Financial receives a fee for providing this guarantee. Cat Financial is the primary beneficiary of the SPC as its guarantees result in Cat Financial having both the power to direct the activities that most significantly impact the SPC's economic performance and the obligation to absorb losses, and therefore Cat Financial has consolidated the financial statements of the SPC. As of June 30, 2022 and December 31, 2021, the SPC's assets of \$939 million and \$888 million, respectively, were primarily comprised of loans to dealers, and the SPC's liabilities of \$939 million and \$888 million, respectively, were primarily comprised of commercial paper. The assets of the SPC are not available to pay Cat Financial's creditors. Cat Financial may be obligated to perform under the guarantee if the SPC experiences losses. No loss has been experienced or is anticipated under this loan purchase agreement.

We determine our product warranty liability by applying historical claim rate experience to the current field population and dealer inventory. Generally, we base historical claim rates on actual warranty experience for each product by machine model/engine size by customer or dealer location (inside or outside North America). We develop specific rates for each product shipment month and update them monthly based on actual warranty claim experience.

The reconciliation of the change in our product warranty liability balances for the six months ended June 30 was as follows:

| | | First Six Months | | | | | | | | | |
|---|------|------------------|-------|--|--|--|--|--|--|--|--|
| (Millions of dollars) | 2022 | | 2021 | | | | | | | | |
| Warranty liability, beginning of period | \$ | 1,689 \$ | 1,612 | | | | | | | | |
| Reduction in liability (payments) | | (388) | (442) | | | | | | | | |
| Increase in liability (new warranties) | | 350 | 515 | | | | | | | | |
| Warranty liability, end of period | \$ | 1,651 \$ | 1,685 | | | | | | | | |

12. Profit per share

| Computations of profit per share: | Thr | ee Months | Ende | d June 30 | Si | Six Months Ended June 30 | | | | | |
|--|-----|-----------|------|-----------|----|--------------------------|----|-------|--|--|--|
| (Dollars in millions except per share data) | | 2022 | | 2021 | | 2022 | | 2021 | | | |
| Profit for the period (A) ¹ | \$ | 1,673 | \$ | 1,413 | \$ | 3,210 | \$ | 2,943 | | | |
| Determination of shares (in millions): | | | | | | | | | | | |
| Weighted-average number of common shares outstanding (B) | | 531.0 | | 547.9 | | 532.6 | | 547.1 | | | |
| Shares issuable on exercise of stock awards, net of shares assumed to be purchased out of proceeds at average market price | | 3.1 | | 4.2 | | 3.5 | | 4.3 | | | |
| Average common shares outstanding for fully diluted computation (C) ² | | 534.1 | | 552.1 | | 536.1 | | 551.8 | | | |
| Profit per share of common stock: | | | | | | | | | | | |
| Assuming no dilution (A/B) | \$ | 3.15 | \$ | 2.58 | \$ | 6.03 | \$ | 5.38 | | | |
| Assuming full dilution $(A/C)^2$ | \$ | 3.13 | \$ | 2.56 | \$ | 5.99 | \$ | 5.33 | | | |
| Shares outstanding as of June 30 (in millions) | | | | | | 527.9 | | 547.5 | | | |

² Diluted by assumed exercise of stock-based compensation awards using the treasury stock method.

For the three and six months ended June 30, 2022 and 2021, we excluded 2.1 million and 1.1 million of outstanding stock options, respectively, from the computation of diluted earnings per share because the effect would have been antidilutive.

In July 2018, the Board approved a share repurchase authorization (the 2018 Authorization) of up to \$10.0 billion of Caterpillar common stock effective January 1, 2019, with no expiration. As of June 30, 2022, \$175 million remained available under the 2018 Authorization.

For the three and six months ended June 30, 2022, we repurchased 5.9 million and 9.4 million shares of Caterpillar common stock, respectively, at an aggregate cost of \$1.2 billion and \$1.9 billion, respectively. For the three and six months ended June 30, 2021, we repurchased 1.2 million shares of Caterpillar common stock, at an aggregate cost of \$251 million. We made these purchases through a combination of accelerated stock repurchase agreements with third-party financial institutions and open market transactions.

In May 2022, the Board approved a new share repurchase authorization of up to \$15.0 billion of Caterpillar common stock effective August 1, 2022, with no expiration.

13. Accumulated other comprehensive income (loss)

We present comprehensive income and its components in the Consolidated Statement of Comprehensive Income. Changes in the balances for each component of AOCI were as follows:

| | T | hree Months | Ende | Six Months Ended June 30 | | | | | |
|--|----|-------------|------|--------------------------|----|---------|----|---------|--|
| (Millions of dollars) | | 2022 | | 2021 | | 2022 | | 2021 | |
| Foreign currency translation: | | | | | | | | | |
| Beginning balance | \$ | (1,623) | \$ | (1,257) | \$ | (1,508) | \$ | (910) | |
| Gains (losses) on foreign currency translation | | (632) | | 92 | | (736) | | (231) | |
| Less: Tax provision /(benefit) | | 27 | | (7) | | 38 | | 17 | |
| Net gains (losses) on foreign currency translation | | (659) | | 99 | | (774) | | (248) | |
| (Gains) losses reclassified to earnings | | _ | | _ | | _ | | _ | |
| Less: Tax provision /(benefit) | | | | | | | | _ | |
| Net (gains) losses reclassified to earnings | | | | | | | | _ | |
| Other comprehensive income (loss), net of tax | | (659) | | 99 | | (774) | | (248) | |
| Ending balance | \$ | (2,282) | \$ | (1,158) | \$ | (2,282) | \$ | (1,158) | |
| Pension and other postretirement benefits | | | | | | | | | |
| Beginning balance | \$ | (63) | \$ | (40) | \$ | (62) | \$ | (32) | |
| Current year prior service credit (cost) | | | | | | _ | | | |
| Less: Tax provision /(benefit) | | _ | | _ | | _ | | _ | |
| Net current year prior service credit (cost) | | | | | | | | _ | |
| Amortization of prior service (credit) cost | | (2) | | (10) | | (3) | | (20) | |
| Less: Tax provision /(benefit) | | (1) | | (3) | | (1) | | (5) | |
| Net amortization of prior service (credit) cost | | (1) | | (7) | | (2) | | (15) | |
| Other comprehensive income (loss), net of tax | | (1) | | (7) | | (2) | | (15) | |
| Ending balance | \$ | (64) | \$ | (47) | \$ | (64) | \$ | (47) | |
| Derivative financial instruments | | | | | | | | | |
| Beginning balance | \$ | 20 | \$ | (31) | \$ | (3) | \$ | _ | |
| Gains (losses) deferred | | 207 | | 17 | | 254 | | 96 | |
| Less: Tax provision /(benefit) | | 26 | | 3 | | 36 | | 19 | |
| Net gains (losses) deferred | | 181 | | 14 | | 218 | | 77 | |
| (Gains) losses reclassified to earnings | | (321) | | 39 | | (340) | | (79) | |
| Less: Tax provision /(benefit) | | (54) | | 10 | | (59) | | (14) | |
| Net (gains) losses reclassified to earnings | | (267) | | 29 | | (281) | | (65) | |
| Other comprehensive income (loss), net of tax | | (86) | | 43 | | (63) | | 12 | |
| Ending balance | \$ | (66) | \$ | 12 | \$ | (66) | \$ | 12 | |
| Available-for-sale securities | | | | | | | | | |
| Beginning balance | \$ | (44) | \$ | 38 | \$ | 20 | \$ | 54 | |
| Gains (losses) deferred | | (54) | | 3 | | (133) | | (18) | |
| Less: Tax provision /(benefit) | | (11) | | 1 | | (26) | | (4) | |
| Net gains (losses) deferred | | (43) | | 2 | | (107) | | (14) | |
| (Gains) losses reclassified to earnings | | _ | | (2) | | _ | | (2) | |
| Less: Tax provision /(benefit) | | | | (1) | | | | (1) | |
| Net (gains) losses reclassified to earnings | | | | (1) | | | | (1) | |
| Other comprehensive income (loss), net of tax | | (43) | | 1 | | (107) | | (15) | |
| Ending balance | \$ | (87) | \$ | 39 | \$ | (87) | \$ | 39 | |
| Total AOCI Ending Balance at June 30 | \$ | (2,499) | \$ | (1,154) | \$ | (2,499) | \$ | (1,154) | |

14. Environmental and legal matters

The Company is regulated by federal, state and international environmental laws governing its use, transport and disposal of substances and control of emissions. In addition to governing our manufacturing and other operations, these laws often impact the development of our products, including, but not limited to, required compliance with air emissions standards applicable to internal combustion engines. We have made, and will continue to make, significant research and development and capital expenditures to comply with these emissions standards.

We are engaged in remedial activities at a number of locations, often with other companies, pursuant to federal and state laws. When it is probable we will pay remedial costs at a site, and those costs can be reasonably estimated, we accrue the investigation, remediation, and operating and maintenance costs against our earnings. We accrue costs based on consideration of currently available data and information with respect to each individual site, including available technologies, current applicable laws and regulations, and prior remediation experience. Where no amount within a range of estimates is more likely, we accrue the minimum. Where multiple potentially responsible parties are involved, we consider our proportionate share of the probable costs. In formulating the estimate of probable costs, we do not consider amounts expected to be recovered from insurance companies or others. We reassess these accrued amounts on a quarterly basis. The amount recorded for environmental remediation is not material and is included in Accrued expenses in the Consolidated Statement of Financial Position. We believe there is no more than a remote chance that a material amount for remedial activities at any individual site, or at all the sites in the aggregate, will be required.

On January 7, 2015, the Company received a grand jury subpoena from the U.S. District Court for the Central District of Illinois. The subpoena requested documents and information from the Company relating to, among other things, financial information concerning U.S. and non-U.S. Caterpillar subsidiaries (including undistributed profits of non-U.S. subsidiaries and the movement of cash among U.S. and non-U.S. subsidiaries). The Company has received additional subpoenas relating to this investigation requesting additional documents and information relating to, among other things, the purchase and resale of replacement parts by Caterpillar Inc. and non-U.S. Caterpillar subsidiaries, dividend distributions of certain non-U.S. Caterpillar subsidiaries, and Caterpillar SARL (CSARL) and related structures. On March 2-3, 2017, agents with the Department of Commerce, the Federal Deposit Insurance Corporation and the Internal Revenue Service executed search and seizure warrants at three facilities of the Company in the Peoria, Illinois area, including its former corporate headquarters. The warrants identify, and agents seized, documents and information related to, among other things, the export of products from the United States, the movement of products between the United States and Switzerland, the relationship between Caterpillar Inc. and CSARL, and sales outside the United States. It is the Company's understanding that the warrants, which concern both tax and export activities, are related to the ongoing grand jury investigation. The Company is continuing to cooperate with this investigation. The Company is unable to predict the outcome or reasonably estimate any potential loss; however, we currently believe that this matter will not have a material adverse effect on the Company's consolidated results of operations, financial position or liquidity.

In addition, we are involved in other unresolved legal actions that arise in the normal course of business. The most prevalent of these unresolved actions involve disputes related to product design, manufacture and performance liability (including claimed asbestos exposure), contracts, employment issues, environmental matters, intellectual property rights, taxes (other than income taxes) and securities laws. The aggregate range of reasonably possible losses in excess of accrued liabilities, if any, associated with these unresolved legal actions is not material. In some cases, we cannot reasonably estimate a range of loss because there is insufficient information regarding the matter. However, we believe there is no more than a remote chance that any liability arising from these matters would be material. Although it is not possible to predict with certainty the outcome of these unresolved legal actions, we believe that these actions will not individually or in the aggregate have a material adverse effect on our consolidated results of operations, financial position or liquidity.

15. Income taxes

The provision for income taxes for the six months ended June 30, 2022, reflected an estimated annual tax rate of 23.5 percent, compared with 26 percent for the six months ended June 30, 2021, excluding the discrete items discussed below. The comparative tax rate for full-year 2021 was approximately 23 percent.

In the six months ended June 30, 2022, the company recorded discrete tax benefits of \$49 million for a prior year tax adjustment due to a change in estimate. In addition, the company recorded a discrete tax benefit of \$18 million for the settlement of stock-based compensation awards with associated tax deductions in excess of cumulative U.S. GAAP compensation expense, compared with a \$60 million benefit for the six months ended June 30, 2021.

In Revenue Agent's Reports issued at the end of the field examinations of our U.S. income tax returns for 2007 to 2012 including the impact of a loss carryback to 2005, the Internal Revenue Service has proposed to tax in the United States profits earned from certain parts transactions by Caterpillar SARL (CSARL) based on the examination team's application of the "substance-over-form" or "assignment-of-income" judicial doctrines. We are vigorously contesting the proposed increases to tax and penalties for these years of approximately \$2.3 billion. We believe that the relevant transactions complied with applicable tax laws and did not violate judicial doctrines. We have filed U.S. income tax returns on this same basis for years after 2012. Based on the information currently available, we do not anticipate a significant change to our unrecognized tax benefits for this position within the next 12 months. We currently believe the ultimate disposition of this matter will not have a material adverse effect on our consolidated financial position, liquidity or results of operations.

16. Segment information

A. Basis for segment information

Our Executive Office is comprised of a Chief Executive Officer (CEO), four Group Presidents, a Chief Financial Officer (CFO), a Chief Legal Officer and General Counsel and a Chief Human Resources Officer. The Group Presidents and CFO are accountable for a related set of end-to-end businesses that they manage. The Chief Legal Officer and General Counsel leads the Law, Security and Public Policy Division. The Chief Human Resources Officer leads the Human Resources Organization. The CEO allocates resources and manages performance at the Group President/CFO level. As such, the CEO serves as our Chief Operating Decision Maker, and operating segments are primarily based on the Group President/CFO reporting structure.

Three of our operating segments, Construction Industries, Resource Industries and Energy & Transportation are led by Group Presidents. One operating segment, Financial Products, is led by the CFO who also has responsibility for Corporate Services. Corporate Services is a cost center primarily responsible for the performance of certain support functions globally and to provide centralized services; it does not meet the definition of an operating segment. One Group President leads one smaller operating segment that is included in the All Other operating segment. The Law, Security and Public Policy Division and the Human Resources Organization are cost centers and do not meet the definition of an operating segment.

Segment information for 2021 has been recast due to a methodology change related to how we assign intersegment sales and segment profit from our technology products and services to Construction Industries, Resource Industries and Energy & Transportation. This methodology change did not have a material impact on our segment results.

B. Description of segments

We have five operating segments, of which four are reportable segments. Following is a brief description of our reportable segments and the business activities included in the All Other operating segment:

Construction Industries: A segment primarily responsible for supporting customers using machinery in infrastructure and building construction applications. Responsibilities include business strategy, product design, product management and development, manufacturing, marketing and sales and product support. The product portfolio includes asphalt pavers; backhoe loaders; compactors; cold planers; compact track and multi-terrain loaders; mini, small, medium and large track excavators; forestry machines; material handlers; motor graders; pipelayers; road reclaimers; skid steer loaders; telehandlers; small and medium track-type tractors; track-type loaders; wheel excavators; compact, small and medium wheel loaders; and related parts and work tools. Inter-segment sales are a source of revenue for this segment.

Resource Industries: A segment primarily responsible for supporting customers using machinery in mining, heavy construction and quarry and aggregates. Responsibilities include business strategy, product design, product management and development, manufacturing, marketing and sales and product support. The product portfolio includes large track-type tractors; large mining trucks; hard rock vehicles; longwall miners; electric rope shovels; draglines; hydraulic shovels; rotary drills; large wheel loaders; off-highway trucks; articulated trucks; wheel tractor scrapers; wheel dozers; landfill compactors; soil compactors; select work tools; machinery components; electronics and control systems and related parts. In addition to equipment, Resource Industries also develops and sells technology products and services to provide customers fleet management, equipment management analytics, autonomous machine capabilities, safety services and mining performance solutions. Resource Industries also manages areas that provide services to other parts of the company, including strategic procurement, lean center of excellence, integrated manufacturing, research and development for hydraulic systems, automation, electronics and software for Cat machines and engines. Inter-segment sales are a source of revenue for this segment.

Energy & Transportation: A segment primarily responsible for supporting customers using reciprocating engines, turbines, diesel-electric locomotives and related services across industries serving Oil and Gas, Power Generation, Industrial and Transportation applications, including marine- and rail-related businesses. Responsibilities include business strategy, product design, product management, development and testing manufacturing, marketing and sales and product support. The product and services portfolio includes turbines, centrifugal gas compressors, and turbine-related services; reciprocating engine-powered generator sets; integrated systems and solutions used in the electric power generation industry; reciprocating engines, drivetrain and integrated systems and solutions supplied to the industrial industry as well as Cat machinery; electrified powertrain and zero-emission power sources and service solutions development; and diesel-electric locomotives and components and other rail-related products and services, including remanufacturing and leasing. Responsibilities also include the remanufacturing of Caterpillar reciprocating engines and components and remanufacturing services for other companies; and product support of on-highway vocational trucks for North America. Inter-segment sales are a source of revenue for this segment.

Financial Products Segment: Provides financing alternatives to customers and dealers around the world for Caterpillar products and services, as well as financing for vehicles, power generation facilities and marine vessels that, in most cases, incorporate Caterpillar products. Financing plans include operating and finance leases, installment sale contracts, repair/rebuild financing, working capital loans and wholesale financing plans. The segment also provides insurance and risk management products and services that help customers and dealers manage their business risk. Insurance and risk management products offered include physical damage insurance, inventory protection plans, extended service coverage and maintenance plans for machines and engines, and dealer property and casualty insurance. The various forms of financing, insurance and risk management products offered to customers and dealers help support the purchase and lease of Caterpillar equipment. The segment also earns revenues from ME&T, but the related costs are not allocated to operating segments. Financial Products' segment profit is determined on a pretax basis and includes other income/expense items.

All Other operating segment: Primarily includes activities such as: business strategy; product management and development; manufacturing and sourcing of filters and fluids, undercarriage, ground-engaging tools, fluid transfer products, precision seals, rubber sealing and connecting components primarily for Cat® products; parts distribution; integrated logistics solutions; distribution services responsible for dealer development and administration, including a wholly owned dealer in Japan; dealer portfolio management and ensuring the most efficient and effective distribution of machines, engines and parts; brand management and marketing strategy; and digital investments for new customer and dealer solutions that integrate data analytics with state-of-the-art digital technologies while transforming the buying experience. Results for the All Other operating segment are included as a reconciling item between reportable segments and consolidated external reporting.

C. Segment measurement and reconciliations

There are several methodology differences between our segment reporting and our external reporting. The following is a list of the more significant methodology differences:

• ME&T segment net assets generally include inventories, receivables, property, plant and equipment, goodwill, intangibles, accounts payable and customer advances. We generally manage at the corporate level liabilities other than accounts payable and customer advances, and we do not include these in segment operations. Financial Products Segment assets generally include all categories of assets.

- We value segment inventories and cost of sales using a current cost methodology.
- We amortize goodwill allocated to segments using a fixed amount based on a 20-year useful life. This methodology difference only impacts segment assets. We do not include goodwill amortization expense in segment profit. In addition, we have allocated to segments only a portion of goodwill for certain acquisitions made in 2011 or later.
- We generally manage currency exposures for ME&T at the corporate level and do not include in segment profit the effects of changes in exchange rates on results of operations within the year. We report the net difference created in the translation of revenues and costs between exchange rates used for U.S. GAAP reporting and exchange rates used for segment reporting as a methodology difference.
- We do not include stock-based compensation expense in segment profit.
- Postretirement benefit expenses are split; segments are generally responsible for service costs, with the remaining elements of net periodic benefit cost included as a methodology difference.
- We determine ME&T segment profit on a pretax basis and exclude interest expense and most other income/expense items. We determine Financial Products Segment profit on a pretax basis and include other income/expense items.

Reconciling items are created based on accounting differences between segment reporting and our consolidated external reporting. Please refer to pages 30 to 33 for financial information regarding significant reconciling items. Most of our reconciling items are self-explanatory given the above explanations. For the reconciliation of profit, we have grouped the reconciling items as follows:

- Corporate costs: These costs are related to corporate requirements primarily for compliance and legal functions for the benefit of the entire
 organization.
- Restructuring costs: May include costs for employee separation, long-lived asset impairments and contract terminations. These costs are included in Other operating (income) expenses except for defined-benefit plan curtailment losses and special termination benefits, which are included in Other income (expense). Restructuring costs also include other exit-related costs, which may consist of accelerated depreciation, inventory write-downs, building demolition, equipment relocation and project management costs and LIFO inventory decrement benefits from inventory liquidations at closed facilities, all of which are primarily included in Cost of goods sold. See Note 20 for more information.
- **Methodology differences:** See previous discussion of significant accounting differences between segment reporting and consolidated external reporting.
- **Timing:** Timing differences in the recognition of costs between segment reporting and consolidated external reporting. For example, we report certain costs on the cash basis for segment reporting and the accrual basis for consolidated external reporting.

For the three and six months ended June 30, 2022 and 2021, sales and revenues by geographic region reconciled to consolidated sales and revenues were as follows:

| Sales and Revenues by Geographic Region (Millions of dollars) | | North Latin Asia/ | | External Sales and | Intersegment Sales and | | To | otal Sales | | | | | |
|---|----|-------------------|----|-----------------------|---------------------------|-------|-------------|--------------|----|----------|----|--------------|--|
| , | | America | | America | | EAME | Pacific | Revenues | | Revenues | | and Revenues | |
| Three Months Ended June 30, 2022 | | | | | | | | | | _ | | | |
| Construction Industries | \$ | 3,006 | \$ | 635 | \$ | 1,202 | \$ 1,148 | \$ 5,991 | \$ | 42 | \$ | 6,033 | |
| Resource Industries | | 1,027 | | 466 | | 489 | 913 | 2,895 | | 66 | | 2,961 | |
| Energy & Transportation | | 2,277 | | 382 | | 1,215 | 766 | 4,640 | | 1,065 | | 5,705 | |
| Financial Products Segment | | 505 | | 87 | | 97 | 109 | 798 | 1 | _ | | 798 | |
| Total sales and revenues from reportable segments | | 6,815 | | 1,570 | | 3,003 | 2,936 | 14,324 | | 1,173 | | 15,497 | |
| All Other operating segment | | 18 | | _ | | 5 | 15 | 38 | | 80 | | 118 | |
| Corporate Items and Eliminations | | (62) | | (23) | | (10) | (20) | (115) | | (1,253) | | (1,368) | |
| Total Sales and Revenues | \$ | 6,771 | \$ | 1,547 | \$ | 2,998 | \$ 2,931 | \$ 14,247 | \$ | _ | \$ | 14,247 | |
| Three Months Ended June 30, 2021 | | | | | | | | | | | | | |
| Construction Industries | \$ | 2,498 | \$ | 430 | \$ | 1,291 | \$ 1,384 | \$ 5,603 | \$ | 53 | \$ | 5,656 | |
| Resource Industries | | 799 | | 487 | | 525 | 660 | 2,471 | | 76 | | 2,547 | |
| Energy & Transportation | | 1,992 | | 250 | | 1,196 | 682 | 4,120 | | 855 | | 4,975 | |
| Financial Products Segment | | 488 | | 65 | | 96 | 125 | 774 | 1 | _ | | 774 | |
| Total sales and revenues from reportable segments | | 5,777 | | 1,232 | | 3,108 | 2,851 | 12,968 | | 984 | | 13,952 | |
| All Other operating segment | | 11 | | 1 | | 4 | 18 | 34 | | 94 | | 128 | |
| Corporate Items and Eliminations | | (69) | | (12) | | (10) | (22) | (113) | | (1,078) | | (1,191) | |
| Total Sales and Revenues | \$ | 5,719 | \$ | 1,221 | \$ | 3,102 | \$ 2,847 | \$ 12,889 | \$ | | \$ | 12,889 | |

¹ Includes revenues from Construction Industries, Resource Industries, Energy & Transportation and All Other operating segment of \$108 million and \$92 million in the three months ended June 30, 2022 and 2021, respectively.

| Millions of dollars) | | North America | Latin America | | EAME | | Asia/ Pacific | | External Sales and Revenues | | Intersegment Sales and Revenues | | Total Sales and Revenues | |
|---|----|------------------|------------------|-------|------|-------|------------------|-------|-----------------------------------|--------|---------------------------------------|---------|-----------------------------|---------|
| Six Months Ended June 30, 2022 | | | | | | | | | | | | | | |
| Construction Industries | \$ | 5,726 | \$ | 1,262 | \$ | 2,479 | \$ | 2,610 | \$ | 12,077 | \$ | 71 | \$ | 12,148 |
| Resource Industries | | 2,045 | | 865 | | 1,083 | | 1,661 | | 5,654 | | 137 | | 5,791 |
| Energy & Transportation | | 4,215 | | 692 | | 2,399 | | 1,366 | | 8,672 | | 2,071 | | 10,743 |
| Financial Products Segment | | 1,008 | | 160 | | 193 | | 220 | | 1,581 | 1 | _ | | 1,581 |
| Total sales and revenues from reportable segments | | 12,994 | | 2,979 | | 6,154 | | 5,857 | | 27,984 | | 2,279 | | 30,263 |
| All Other operating segment | | 36 | | _ | | 10 | | 31 | | 77 | | 159 | | 236 |
| Corporate Items and Eliminations | | (122) | | (39) | | (21) | | (43) | | (225) | | (2,438) | | (2,663) |
| Total Sales and Revenues | \$ | 12,908 | \$ | 2,940 | \$ | 6,143 | \$ | 5,845 | \$ | 27,836 | \$ | | \$ | 27,836 |
| Six Months Ended June 30, 2021 | | | | | | | | | | | | _ | | |
| Construction Industries | \$ | 4,624 | \$ | 822 | \$ | 2,372 | \$ | 3,226 | \$ | 11,044 | \$ | 71 | \$ | 11,115 |
| Resource Industries | | 1,456 | | 892 | | 999 | | 1,221 | | 4,568 | | 157 | | 4,725 |
| Energy & Transportation | | 3,774 | | 506 | | 2,289 | | 1,209 | | 7,778 | | 1,704 | | 9,482 |
| Financial Products Segment | | 964 | | 127 | | 196 | | 248 | | 1,535 | 1 | _ | | 1,535 |
| Total sales and revenues from reportable segments | | 10,818 | | 2,347 | | 5,856 | | 5,904 | | 24,925 | | 1,932 | | 26,857 |
| All Other operating segment | | 24 | | 1 | | 7 | | 40 | | 72 | | 186 | | 258 |
| Corporate Items and Eliminations | | (132) | | (23) | | (18) | | (48) | | (221) | | (2,118) | | (2,339) |
| Total Sales and Revenues | \$ | 10,710 | \$ | 2,325 | \$ | 5,845 | \$ | 5,896 | \$ | 24,776 | \$ | _ | \$ | 24,776 |

¹ Includes revenues from Construction Industries, Resource Industries, Energy & Transportation and All Other operating segment of \$208 million and \$176 million in the six months ended June 30, 2022 and 2021, respectively.

For the three and six months ended June 30, 2022 and 2021, Energy & Transportation segment sales by end user application were as follows:

| Energy & Transportation External Sales | | | | | | | |
|--|--------------|--------------------------|----|-------|------|-------|--|
| | Three Months | Six Months Ended June 30 | | | | | |
| (Millions of dollars) | 2022 | 2021 | | 2022 | 2021 | | |
| Oil and gas | \$ 1,232 | \$ 1,137 | \$ | 2,180 | \$ | 2,052 | |
| Power generation | 1,186 | 1,052 | | 2,198 | | 2,015 | |
| Industrial | 1,117 | 899 | | 2,137 | | 1,712 | |
| Transportation | 1,105 | 1,032 | | 2,157 | | 1,999 | |
| Energy & Transportation External Sales | \$ 4,640 | \$ 4,120 | \$ | 8,672 | \$ | 7,778 | |

Reconciliation of Consolidated profit before taxes:

| (Millions of dollars) | Three Months | Six Months Ended June 30 | | | | | |
|--|--------------|--------------------------|-------|------|-------|----|-------|
| | 2022 | | 2021 | 2022 | | | 2021 |
| Profit from reportable segments: | | - | | | | | |
| Construction Industries | \$ 989 | \$ | 1,029 | \$ | 2,046 | \$ | 2,071 |
| Resource Industries | 355 | | 349 | | 716 | | 661 |
| Energy & Transportation | 659 | | 738 | | 1,197 | | 1,413 |
| Financial Products Segment | 217 | | 243 | | 455 | | 487 |
| Total profit from reportable segments | 2,220 | 1 | 2,359 | | 4,414 | | 4,632 |
| Profit from All Other operating segment | 31 | | (10) | | 34 | | (7) |
| Cost centers | 28 | | 11 | | 38 | | 32 |
| Corporate costs | (304) | | (202) | | (502) | | (387) |
| Timing | 53 | | (124) | | (45) | | (190) |
| Restructuring costs | (28) | | (25) | | (41) | | (89) |
| Methodology differences: | | | | | | | |
| Inventory/cost of sales | 101 | | 7 | | 269 | | 7 |
| Postretirement benefit expense | 130 | | 86 | | 211 | | 154 |
| Stock-based compensation expense | (67) | | (69) | | (107) | | (111) |
| Financing costs | (94) | | (109) | | (194) | | (239) |
| Currency | 156 | | 50 | | 262 | | 236 |
| Other income/expense methodology differences | (97) | | (72) | | (178) | | (121) |
| Other methodology differences | (33) | | (32) | | (66) | | (50) |
| Total consolidated profit before taxes | \$ 2,096 | \$ | 1,870 | \$ | 4,095 | \$ | 3,867 |

| Reconciliation of Assets: | | | | | |
|--|----|-------------|-------------------|----|--|
| Construction Industries Resource Industries Energy & Transportation Financial Products Segment ral assets from reportable segments sets from All Other operating segment ms not included in segment assets: Cash and cash equivalents Deferred income taxes Goodwill and intangible assets Property, plant and equipment — net and other assets rentory methodology differences abilities included in segment assets ner | Ju | ne 30, 2022 | December 31, 2021 | | |
| Assets from reportable segments: | | | | _ | |
| Construction Industries | \$ | 5,193 \$ | 4,547 | 7 | |
| Resource Industries | | 5,732 | 5,962 | 2 | |
| Energy & Transportation | | 9,509 | 9,253 | 3 | |
| Financial Products Segment | | 34,339 | 34,860 | 0 | |
| Total assets from reportable segments | | 54,773 | 54,622 | 2 | |
| Assets from All Other operating segment | | 1,623 | 1,678 | 8 | |
| Items not included in segment assets: | | | | | |
| Cash and cash equivalents | | 5,213 | 8,428 | 8 | |
| Deferred income taxes | | 2,012 | 1,735 | 5 | |
| Goodwill and intangible assets | | 4,802 | 4,859 | 9 | |
| Property, plant and equipment – net and other assets | | 4,640 | 4,056 | 6 | |
| Inventory methodology differences | | (2,847) | (2,656 | 5) | |
| Liabilities included in segment assets | | 11,403 | 10,777 | 7 | |
| Other | | (512) | (706 | 5) | |
| Total assets | \$ | 81,107 | 82,793 | 3 | |

| Reconciliation of Depreciation and amortization: | | | | | | | |
|--|------------------|------|-----------|----------------|------------|--------------|--|
| (Millions of dollars) | | | | | | | |
| | Three Months | Ende | d June 30 | Six Months | Ended Ju | nded June 30 | |
| | 2022 | | 2021 | 2022 | | 2021 | |
| Depreciation and amortization from reportable segments: | | | | | | | |
| Construction Industries | \$ 57 | \$ | 59 | \$ 115 | \$ | 118 | |
| Resource Industries | 91 | | 101 | 183 | | 200 | |
| Energy & Transportation | 135 | | 142 | 269 | | 284 | |
| Financial Products Segment | 185 | | 191 | 373 | | 387 | |
| Total depreciation and amortization from reportable segments | 468 | | 493 | 940 | ' <u>-</u> | 989 | |
| Items not included in segment depreciation and amortization: | | | | | | | |
| All Other operating segment | 58 | | 60 | 116 | | 122 | |
| Cost centers | 22 | | 24 | 43 | | 50 | |
| Other | 5 | | 10 | 11 | | 12 | |
| Total depreciation and amortization | \$ 553 | \$ | 587 | \$ 1,110 | \$ | 1,173 | |

| Reconciliation of Capital expenditures: | | | | | | |
|---|------------------|--------------------------|----|-------|----|-------|
| (Millions of dollars) | Three Months | Six Months Ended June 30 | | | | |
| | 2022 | 2021 | | 2022 | | 2021 |
| Capital expenditures from reportable segments: | | | | | | |
| Construction Industries | \$ 43 | \$ 36 | \$ | 75 | \$ | 64 |
| Resource Industries | 42 | 34 | | 64 | | 57 |
| Energy & Transportation | 100 | 143 | | 277 | | 224 |
| Financial Products Segment | 334 | 361 | | 575 | | 589 |
| Total capital expenditures from reportable segments | 519 | 574 | | 991 | | 934 |
| Items not included in segment capital expenditures: | | | | | | |
| All Other operating segment | 46 | 32 | | 62 | | 47 |
| Cost centers | 16 | _ | | 25 | | 19 |
| Timing | 16 | (15) | | 208 | | 109 |
| Other | (2) | 5 | | (12) | | (9) |
| Total capital expenditures | \$ 595 | \$ 596 | \$ | 1,274 | \$ | 1,100 |

17. Cat Financial financing activities

Allowance for credit losses

Portfolio segments

A portfolio segment is the level at which Cat Financial develops a systematic methodology for determining its allowance for credit losses. Cat Financial's portfolio segments and related methods for estimating expected credit losses are as follows:

Customer

Cat Financial provides loans and finance leases to end-user customers primarily for the purpose of financing new and used Caterpillar machinery, engines and equipment for commercial use, the majority of which operate in construction-related industries. Cat Financial also provides financing for vehicles, power generation facilities and marine vessels that, in most cases, incorporate Caterpillar products. The average original term of Cat Financial's customer finance receivable portfolio was approximately 49 months with an average remaining term of approximately 26 months as of June 30, 2022.

Cat Financial typically maintains a security interest in financed equipment and requires physical damage insurance coverage on the financed equipment, both of which provide Cat Financial with certain rights and protections. If Cat Financial's collection efforts fail to bring a defaulted account current, Cat Financial generally can repossess the financed equipment, after satisfying local legal requirements, and sell it within the Caterpillar dealer network or through third-party auctions.

Cat Financial estimates the allowance for credit losses related to its customer finance receivables based on loss forecast models utilizing probabilities of default and the estimated loss given default based on past loss experience adjusted for current conditions and reasonable and supportable forecasts capturing country and industry-specific economic factors.

During the three and six months ended June 30, 2022, Cat Financial's forecasts for the markets in which it operates reflected a continuation of the trend of relatively low unemployment rates and delinquencies. However, high inflation rates and commodity prices are weakening the global economic growth. The company believes the economic forecasts employed represent reasonable and supportable forecasts, followed by a reversion to long-term trends.

Dealer

Cat Financial provides financing to Caterpillar dealers in the form of wholesale financing plans. Cat Financial's wholesale financing plans provide assistance to dealers by financing their mostly new Caterpillar equipment inventory and rental fleets on a secured and unsecured basis. In addition, Cat Financial provides a variety of secured and unsecured loans to Caterpillar dealers.

Cat Financial estimates the allowance for credit losses for dealer finance receivables based on historical loss rates with consideration of current economic conditions and reasonable and supportable forecasts.

In general, Cat Financial's Dealer portfolio segment has not historically experienced large increases or decreases in credit losses based on changes in economic conditions due to its close working relationships with the dealers and their financial strength. Therefore, Cat Financial made no adjustments to historical loss rates during the three and six months ended June 30, 2022.

Classes of finance receivables

Ending balance

Finance Receivables

Cat Financial further evaluates portfolio segments by the class of finance receivables, which is defined as a level of information (below a portfolio segment) in which the finance receivables have the same initial measurement attribute and a similar method for assessing and monitoring credit risk, Cat Financial's classes, which align with management reporting for credit losses, are as follows:

- North America Finance receivables originated in the United States and Canada.
- EAME Finance receivables originated in Europe, Africa, the Middle East and the Commonwealth of Independent States.
- Asia/Pacific Finance receivables originated in Australia, New Zealand, China, Japan, Southeast Asia and India.
- Mining Finance receivables related to large mining customers worldwide.
- **Latin America** Finance receivables originated in Mexico and Central and South American countries.
- Caterpillar Power Finance Finance receivables originated worldwide related to marine vessels with Caterpillar engines and Caterpillar electrical power generation, gas compression and co-generation systems and non-Caterpillar equipment that is powered by these systems.

Receivable balances, including accrued interest, are written off against the allowance for credit losses when, in the judgment of management, they are considered uncollectible (generally upon repossession of the collateral). The amount of the write-off is determined by comparing the fair value of the collateral, less cost to sell, to the amortized cost. Subsequent recoveries, if any, are credited to the allowance for credit losses when received.

An analysis of the allowance for credit losses was as follows:

| (Millions of dollars) | | Three Mo | onths Er | ided June | 30, 2 | 2022 | Three Months Ended June 30, 2021 | | | | | | | | |
|-------------------------------|----|----------|----------|------------|--------|-------|----------------------------------|----------|----|--------|----|-------|--|--|--|
| | Cı | stomer | D | ealer | | Total | | Customer | D | Dealer | | Total | | | |
| Beginning balance | \$ | 271 | \$ | 81 | \$ | 352 | \$ | 393 | \$ | 44 | \$ | 437 | | | |
| Write-offs | | (18) | | _ | | (18) | | (68) | | _ | | (68) | | | |
| Recoveries | | 18 | | _ | | 18 | | 14 | | _ | | 14 | | | |
| Provision for credit losses 1 | | 22 | | 1 | | 23 | | 13 | | _ | | 13 | | | |
| Other | | (3) | | _ | | (3) | | 2 | | _ | | 2 | | | |
| Ending balance | \$ | 290 | \$ | 82 | \$ | 372 | \$ | 354 | \$ | 44 | \$ | 398 | | | |
| | | Six Mor | ths End | led June 3 | 30, 20 | 22 | Six Months Ended June 30, 2021 | | | | | | | | |
| Allowance for Credit Losses: | Cı | stomer | D | ealer | | Total | | Customer | Г | Dealer | | Total | | | |
| Beginning balance | \$ | 251 | \$ | 82 | \$ | 333 | \$ | 431 | \$ | 44 | \$ | 475 | | | |
| Write-offs | | (38) | | _ | | (38) | | (102) | | _ | | (102) | | | |
| Recoveries | | 30 | | _ | | 30 | | 24 | | _ | | 24 | | | |
| Provision for credit losses 1 | | 48 | | _ | | 48 | | 3 | | _ | | 3 | | | |
| Other | | (1) | | _ | | (1) | | (2) | | _ | | (2) | | | |

^{\$} ¹ Excludes provision for credit losses on unfunded commitments and other miscellaneous receivables

290

\$

19,888

82

1,764 \$

372

21,652 \$

354

\$

19,848

44

2,663 \$ 398

22,511

Credit quality of finance receivables

At origination, Cat Financial evaluates credit risk based on a variety of credit quality factors including prior payment experience, customer financial information, credit ratings, loan-to-value ratios, probabilities of default, industry trends, macroeconomic factors and other internal metrics. On an ongoing basis, Cat Financial monitors credit quality based on past-due status as there is a meaningful correlation between the past-due status of customers and the risk of loss. In determining past-due status, Cat Financial considers the entire finance receivable past due when any installment is over 30 days past due.

Customer

The tables below summarize the aging category of Cat Financial's amortized cost of finance receivables in the Customer portfolio segment by origination year:

| (Millions of dollars) | June 30, 2022 | | | | | | | | | | | | | | | |
|---------------------------|---------------|-------|----|-------|----|-------|----|-------|----|------|----|-------|----------------------------|-----|----|------------------------|
| | | 2022 | | 2021 | | 2020 | | 2019 | | 2018 | ı | Prior | Revolv Finan Receiva | ce | | l Finance ceivables |
| North America | | | | | | | | | | | | | | | - | |
| Current | \$ | 2,316 | \$ | 3,996 | \$ | 2,021 | \$ | 991 | \$ | 382 | \$ | 103 | \$ | 218 | \$ | 10,027 |
| 31-60 days past due | | 13 | | 31 | | 23 | | 14 | | 6 | | 2 | | 5 | | 94 |
| 61-90 days past due | | 4 | | 10 | | 6 | | 4 | | 2 | | 2 | | 3 | | 31 |
| 91+ days past due | | 2 | | 17 | | 13 | | 9 | | 10 | | 5 | | 3 | | 59 |
| EAME | | | | | | | | | | | | | | | | |
| Current | | 642 | | 1,204 | | 624 | | 397 | | 232 | | 104 | | _ | | 3,203 |
| 31-60 days past due | | 4 | | 11 | | 9 | | 5 | | _ | | 1 | | _ | | 30 |
| 61-90 days past due | | 1 | | 8 | | 5 | | 1 | | 1 | | _ | | _ | | 16 |
| 91+ days past due | | 1 | | 19 | | 15 | | 6 | | 2 | | 1 | | _ | | 44 |
| Asia/Pacific | | | | | | | | | | | | | | | | |
| Current | | 631 | | 939 | | 517 | | 146 | | 35 | | 7 | | _ | | 2,275 |
| 31-60 days past due | | 3 | | 15 | | 14 | | 7 | | 1 | | _ | | _ | | 40 |
| 61-90 days past due | | _ | | 6 | | 7 | | 3 | | 1 | | _ | | _ | | 17 |
| 91+ days past due | | 1 | | 3 | | 6 | | 6 | | 1 | | _ | | _ | | 17 |
| Mining | | | | | | | | | | | | | | | | |
| Current | | 384 | | 699 | | 270 | | 237 | | 134 | | 156 | | 31 | | 1,911 |
| 31-60 days past due | | _ | | _ | | _ | | 1 | | 4 | | _ | | _ | | 5 |
| 61-90 days past due | | _ | | _ | | _ | | _ | | _ | | _ | | _ | | _ |
| 91+ days past due | | _ | | _ | | 1 | | 6 | | 11 | | 4 | | _ | | 22 |
| Latin America | | | | | | | | | | | | | | | | |
| Current | | 422 | | 513 | | 214 | | 108 | | 33 | | 19 | | _ | | 1,309 |
| 31-60 days past due | | 1 | | 8 | | 5 | | 2 | | 5 | | _ | | _ | | 21 |
| 61-90 days past due | | 1 | | 2 | | 2 | | 2 | | _ | | 1 | | _ | | 8 |
| 91+ days past due | | _ | | 12 | | 15 | | 7 | | 14 | | 18 | | _ | | 66 |
| Caterpillar Power Finance | | | | | | | | | | | | | | | | |
| Current | | 17 | | 96 | | 145 | | 80 | | 32 | | 177 | | 111 | | 658 |
| 31-60 days past due | | _ | | _ | | _ | | _ | | _ | | _ | | _ | | _ |
| 61-90 days past due | | _ | | _ | | _ | | _ | | _ | | 5 | | _ | | 5 |
| 91+ days past due | | _ | | 1 | | _ | | _ | | _ | | 29 | | _ | | 30 |
| Totals by Aging Category | | | | | | | | | | | | | | | | |
| Current | \$ | 4,412 | \$ | 7,447 | \$ | 3,791 | \$ | 1,959 | \$ | 848 | \$ | 566 | \$ | 360 | \$ | 19,383 |
| 31-60 days past due | | 21 | | 65 | | 51 | | 29 | | 16 | | 3 | | 5 | | 190 |
| 61-90 days past due | | 6 | | 26 | | 20 | | 10 | | 4 | | 8 | | 3 | | 77 |
| 91+ days past due | | 4 | | 52 | | 50 | | 34 | | 38 | | 57 | | 3 | | 238 |
| Total Customer | \$ | 4,443 | \$ | 7,590 | \$ | 3,912 | \$ | 2,032 | \$ | 906 | \$ | 634 | \$ | 371 | \$ | 19,888 |

| (Millions of dollars) | | | | | | Dece | embe | r 31, 2 | 2021 | | | | | |
|---------------------------|---------|------|-------|-------------|----|-------|------|---------|------|-------|-----|------------------------------|----|-------------------------|
| | 2021 | | 2020 | 2019 | | 2018 | 2 | 017 | I | Prior | Fir | volving nance eivables | | al Finance ceivables |
| North America | | | | | | | | | | | | | | |
| Current | \$ 4,75 | 92 5 | 2,596 | \$ 1,426 | \$ | 630 | \$ | 182 | \$ | 32 | \$ | 182 | \$ | 9,840 |
| 31-60 days past due | , | 27 | 32 | 20 | | 12 | | 4 | | 1 | | 5 | | 101 |
| 61-90 days past due | | 7 | 8 | 5 | | 3 | | 1 | | 1 | | 5 | | 30 |
| 91+ days past due | | 9 | 17 | 12 | | 13 | | 5 | | 4 | | 5 | | 65 |
| EAME | | | | | | | | | | | | | | |
| Current | 1,49 | 99 | 836 | 577 | | 352 | | 140 | | 26 | | _ | | 3,430 |
| 31-60 days past due | | 5 | 4 | 3 | | 1 | | 1 | | _ | | _ | | 14 |
| 61-90 days past due | | 3 | 3 | 3 | | 1 | | _ | | _ | | _ | | 10 |
| 91+ days past due | | 3 | 11 | 2 | | 2 | | _ | | 2 | | _ | | 20 |
| Asia/Pacific | | | | | | | | | | | | | | |
| Current | 1,2 | 71 | 803 | 307 | | 71 | | 16 | | 2 | | _ | | 2,470 |
| 31-60 days past due | | 10 | 14 | 10 | | 2 | | _ | | _ | | _ | | 36 |
| 61-90 days past due | | 3 | 7 | 4 | | 1 | | _ | | _ | | _ | | 15 |
| 91+ days past due | | 2 | 10 | 10 | | 3 | | _ | | _ | | _ | | 25 |
| Mining | | | | | | | | | | | | | | |
| Current | 8 | 51 | 347 | 307 | | 193 | | 36 | | 161 | | 36 | | 1,931 |
| 31-60 days past due | 0. | 6 | _ | _ | | _ | | _ | | _ | | _ | | 6 |
| 61-90 days past due | | 1 | _ | _ | | _ | | 4 | | _ | | _ | | 5 |
| 91+ days past due | - | _ | 1 | 8 | | 9 | | 3 | | 1 | | _ | | 22 |
| Latin America | | | | | | | | | | | | | | |
| Current | 6 | 17 | 299 | 160 | | 70 | | 17 | | 18 | | _ | | 1,181 |
| 31-60 days past due | Ü | 4 | 7 | 3 | | 3 | | 1 | | _ | | _ | | 18 |
| 61-90 days past due | | 3 | 3 | 1 | | 1 | | _ | | _ | | _ | | 8 |
| 91+ days past due | | 4 | 9 | 9 | | 7 | | 7 | | 14 | | _ | | 50 |
| Caterpillar Power Finance | | | | | | | | | | | | | | |
| Current | 1 | 17 | 145 | 97 | | 70 | | 180 | | 104 | | 101 | | 814 |
| 31-60 days past due | - | _ | | _ | | _ | | _ | | _ | | _ | | _ |
| 61-90 days past due | - | _ | _ | _ | | _ | | _ | | _ | | _ | | _ |
| 91+ days past due | - | _ | _ | _ | | _ | | _ | | 44 | | _ | | 44 |
| Totals by Aging Category | | | | | | | | | | | | | | |
| Current | \$ 9,14 | 17 5 | 5,026 | \$ 2,874 | \$ | 1,386 | \$ | 571 | \$ | 343 | \$ | 319 | \$ | 19,666 |
| 31-60 days past due | | 52 | 57 | 36 | | 18 | | 6 | | 1 | | 5 | | 175 |
| 61-90 days past due | | 17 | 21 | 13 | | 6 | | 5 | | 1 | | 5 | | 68 |
| 91+ days past due | _ | 18 | 48 | 41 | _ | 34 | _ | 15 | _ | 65 | | 5 | _ | 226 |
| Total Customer | \$ 9,2 | 34 5 | 5,152 | \$ 2,964 | \$ | 1,444 | \$ | 597 | \$ | 410 | \$ | 334 | \$ | 20,135 |

Finance receivables in the Customer portfolio segment are substantially secured by collateral, primarily in the form of Caterpillar and other machinery. For those contracts where the borrower is experiencing financial difficulty, repayment of the outstanding amounts is generally expected to be provided through the operation or repossession and sale of the machinery.

Dealer

As of June 30, 2022, Cat Financial's total amortized cost of finance receivables within the Dealer portfolio segment was current, with the exception of \$73 million that were 91+ days past due in Latin America, all of which were originated in 2017. As of December 31, 2021, Cat Financial's total amortized cost of finance receivables within the Dealer portfolio segment was current, with the exception of \$78 million that was 91+ days past due in Latin America, all of which was originated in 2017.

Non-accrual finance receivables

Recognition of income is suspended and the finance receivable is placed on non-accrual status when management determines that collection of future income is not probable. Contracts on non-accrual status are generally more than 120 days past due or have been restructured in a troubled debt restructuring (TDR). Recognition is resumed and previously suspended income is recognized when collection is considered probable. Payments received while the finance receivable is on non-accrual status are applied to interest and principal in accordance with the contractual terms. Interest earned but uncollected prior to the receivable being placed on non-accrual status is written off through Provision for credit losses when, in the judgment of management, it is considered uncollectible.

In Cat Financial's Customer portfolio segment, finance receivables which were on non-accrual status and finance receivables over 90 days past due and still accruing income were as follows:

| | | J | une 30, 2022 | | | December 31, 2021 | | | | | | | | | | |
|---------------------------|-------------------------------------|----|--|----|-----------------------|-------------------|-------------------------------------|----|--|----|-----------------------|--|--|--|--|--|
| | | Aı | nortized Cost | | | Amortized Cost | | | | | | | | | | |
| (Millions of dollars) | Non-accrual With an Allowance | | Non-accrual Without an Allowance | | 91+ Still Accruing | | Non-accrual With an Allowance | | Non-accrual Without an Allowance | | 91+ Still Accruing | | | | | |
| North America | \$ 39 | \$ | 6 | \$ | 15 | \$ | 47 | \$ | 9 | \$ | 12 | | | | | |
| EAME | 49 | | 1 | | 20 | | 18 | | 1 | | 2 | | | | | |
| Asia/Pacific | 12 | | _ | | 7 | | 19 | | _ | | 7 | | | | | |
| Mining | 23 | | 2 | | _ | | 8 | | 1 | | 14 | | | | | |
| Latin America | 70 | | _ | | 1 | | 52 | | 4 | | 1 | | | | | |
| Caterpillar Power Finance | 20 | | 12 | | _ | | 40 | | 11 | | _ | | | | | |
| Total | \$ 213 | \$ | 21 | \$ | 43 | \$ | 184 | \$ | 26 | \$ | 36 | | | | | |

There was \$1 million of interest income recognized during the three months ended June 30, 2022 and 2021 for customer finance receivables on non-accrual status. There was \$5 million and \$6 million of interest income recognized during the six months ended June 30, 2022 and 2021, respectively, for customer finance receivables on non-accrual status.

As of June 30, 2022 and December 31, 2021, finance receivables in Cat Financial's Dealer portfolio segment on non-accrual status were \$73 million and \$78 million, respectively, all of which was in Latin America. There were no finance receivables in Cat Financial's Dealer portfolio segment more than 90 days past due and still accruing income as of June 30, 2022 and December 31, 2021 and no interest income was recognized on dealer finance receivables on non-accrual status during the three and six months ended June 30, 2022 and 2021.

Troubled debt restructurings

A restructuring of a finance receivable constitutes a TDR when the lender grants a concession it would not otherwise consider to a borrower experiencing financial difficulties. Concessions granted may include extended contract maturities, inclusion of interest only periods, below market interest rates, payment deferrals and reduction of principal and/or accrued interest. Cat Financial individually evaluates TDR contracts and establishes an allowance based on the present value of expected future cash flows discounted at the receivable's effective interest rate, the fair value of the collateral-dependent receivables or the observable market price of the receivable.

There were no finance receivables modified as TDRs during the three and six months ended June 30, 2022 and 2021 for the Dealer portfolio segment. Cat Financial's finance receivables in the Customer portfolio segment modified as TDRs were as follows:

| Thre | e Months E | nded | d June 30, 2022 | Three Months Ended June 30, 2021 | | | | | | |
|------|----------------|--------------------------------|---------------------------------|----------------------------------|---|---|---|--|--|--|
| | | | Post-TDR Amortized Cost | | Pre-TDR Amortized Cost | Post-TDR Amortized Cost | | | | |
| | | | | | | _ | | | | |
| \$ | 1 | \$ | 1 | \$ | 4 | \$ | 4 | | | |
| | _ | | _ | | 6 | | 6 | | | |
| | 3 | | 2 | | 16 | | 16 | | | |
| \$ | 4 | \$ | 3 | \$ | 26 | \$ | 26 | | | |
| | Pre- Amorti | Pre-TDR Amortized Cost \$ 1 3 | Pre-TDR Amortized Cost \$ 1 \$ | Amortized Cost | Pre-TDR Amortized Cost Post-TDR Amortized Cost \$ 1 \$ 1 \$ 2 | Pre-TDR Amortized Cost Post-TDR Amortized Cost Pre-TDR Amortized Cost \$ 1 \$ 1 \$ 4 - - - 6 6 3 2 16 | Pre-TDR Amortized Cost Post-TDR Amortized Cost Pre-TDR Amortized Cost \$ 1 \$ 1 \$ 4 \$ - 6 \$ 3 - 6 16 | | | |

| | Six | Months End | ded June 3 | Six Months Ended June 30, 2021 | | | | | | |
|---------------------------|-----|-------------------|------------|--------------------------------|----|-------------------|----------------------------|----|--|--|
| | | -TDR ized Cost | | st-TDR tized Cost | | -TDR ized Cost | Post-TDR Amortized Cost | | | |
| North America | \$ | 1 | \$ | 1 | \$ | 4 | \$ | 4 | | |
| EAME | | 1 | | 1 | | _ | | _ | | |
| Mining | | _ | | _ | | 11 | | 5 | | |
| Latin America | | _ | | _ | | 6 | | 6 | | |
| Caterpillar Power Finance | | 9 | | 8 | | 16 | | 16 | | |
| Total | \$ | 11 | \$ | 10 | \$ | 37 | \$ | 31 | | |
| | · | | | | | | | | | |

The Post-TDR amortized costs in the Customer portfolio segment with a payment default (defined as 91+ days past due) which had been modified within twelve months prior to the default date, were as follows:

| (Millions of dollars) | Thre | e Months E | Ended June 30 | | Six Months Ended June 30 | | | | | | |
|---------------------------|------|------------|---------------|------|--------------------------|-------|--|--|--|--|--|
| Customer | 2022 | 2 | 2021 | | 2022 | 2021 | | | | | |
| North America | \$ | _ | \$ - | - \$ | | \$ 1 | | | | | |
| Asia/Pacific | | _ | | 2 | _ | 6 | | | | | |
| Mining | | _ | - | _ | 5 | _ | | | | | |
| Latin America | | _ | 1 | 5 | _ | 15 | | | | | |
| Caterpillar Power Finance | | _ | - | _ | _ | 5 | | | | | |
| Total | \$ | _ | \$ 1 | 7 \$ | 5 | \$ 27 | | | | | |

18. Fair value disclosures

A. Fair value measurements

The guidance on fair value measurements defines fair value as the exchange price that would be received for an asset or paid to transfer a liability (an exit price) in the principal or most advantageous market for the asset or liability in an orderly transaction between market participants. This guidance also specifies a fair value hierarchy based upon the observability of inputs used in valuation techniques. Observable inputs (highest level) reflect market data obtained from independent sources, while unobservable inputs (lowest level) reflect internally developed market assumptions. In accordance with this guidance, fair value measurements are classified under the following hierarchy:

• Level 1 – Quoted prices for identical instruments in active markets.

- Level 2 Quoted prices for similar instruments in active markets; quoted prices for identical or similar instruments in markets that are not active; and model-derived valuations in which all significant inputs or significant value-drivers are observable in active markets.
- Level 3 Model-derived valuations in which one or more significant inputs or significant value-drivers are unobservable.

When available, we use quoted market prices to determine fair value, and we classify such measurements within Level 1. In some cases where market prices are not available, we make use of observable market based inputs to calculate fair value, in which case the measurements are classified within Level 2. If quoted or observable market prices are not available, fair value is based upon valuations in which one or more significant inputs are unobservable, including internally developed models that use, where possible, current market-based parameters such as interest rates, yield curves and currency rates. These measurements are classified within Level 3.

We classify fair value measurements according to the lowest level input or value-driver that is significant to the valuation. We may therefore classify a measurement within Level 3 even though there may be significant inputs that are readily observable.

Fair value measurement includes the consideration of nonperformance risk. Nonperformance risk refers to the risk that an obligation (either by a counterparty or Caterpillar) will not be fulfilled. For financial assets traded in an active market (Level 1 and certain Level 2), the nonperformance risk is included in the market price. For certain other financial assets and liabilities (certain Level 2 and Level 3), our fair value calculations have been adjusted accordingly.

Investments in debt and equity securities

We have investments in certain debt and equity securities that are recorded at fair value. Fair values for our U.S. treasury bonds and large capitalization value and smaller company growth equity securities are based upon valuations for identical instruments in active markets. Fair values for other government bonds, corporate bonds and mortgage-backed debt securities are based upon models that take into consideration such market-based factors as recent sales, risk-free yield curves and prices of similarly rated bonds.

We also have investments in time deposits classified as held-to-maturity debt securities. The fair value of these investments is based upon valuations observed in less active markets than Level 1. These investments have a maturity of less than one year and are recorded at amortized costs, which approximate fair value.

In addition, Insurance Services has an equity investment in a real estate investment trust (REIT) which is recorded at fair value based on the net asset value (NAV) of the investment and is not classified within the fair value hierarchy.

See Note 8 for additional information on our investments in debt and equity securities.

Derivative financial instruments

The fair value of interest rate contracts is primarily based on a standard industry accepted valuation model that utilizes the appropriate market-based forward swap curves and zero-coupon interest rates to determine discounted cash flows. The fair value of foreign currency and commodity forward, option and cross currency contracts is based on standard industry accepted valuation models that discount cash flows resulting from the differential between the contract price and the market-based forward rate.

See Note 5 for additional information.

Assets and liabilities measured on a recurring basis at fair value included in our Consolidated Statement of Financial Position as of June 30, 2022 and December 31, 2021 were as follows:

| | | | | | | June 30, | 202 | 2 | | |
|--|----|--------|----|-------|----|----------|--------------------|-----|----|---|
| (Millions of dollars) | L | evel 1 | Le | vel 2 | | Level 3 | Measured at NAV | | | Total Assets / Liabilities, at Fair Value |
| Assets | | | | | | | | | | |
| Debt securities | | | | | | | | | | |
| Government debt | | | | | | | | | | |
| U.S. treasury bonds | \$ | 10 | \$ | _ | \$ | _ | \$ | _ | \$ | 10 |
| Other U.S. and non-U.S. government bonds | | _ | | 55 | | _ | | _ | | 55 |
| Corporate bonds | | | | | | | | | | |
| Corporate bonds | | _ | | 2,029 | | _ | | _ | | 2,029 |
| Asset-backed securities | | _ | | 181 | | _ | | _ | | 181 |
| Mortgage-backed debt securities | | | | | | | | | | |
| U.S. governmental agency | | _ | | 367 | | _ | | _ | | 367 |
| Residential | | _ | | 3 | | _ | | _ | | 3 |
| Commercial | | _ | | 132 | | _ | | _ | | 132 |
| Total debt securities | | 10 | | 2,767 | | _ | | _ | | 2,777 |
| Equity securities | | | | | | | | | | |
| Large capitalization value | | 189 | | _ | | _ | | _ | | 189 |
| Smaller company growth | | 42 | | _ | | _ | | _ | | 42 |
| REIT | | _ | | _ | | _ | | 197 | | 197 |
| Total equity securities | | 231 | | | | | | 197 | | 428 |
| Derivative financial instruments - assets | | | | | | | | | | |
| Foreign currency contracts - net | | _ | | 295 | | _ | | _ | | 295 |
| Commodity contracts - net | | _ | | 7 | | _ | | _ | | 7 |
| Total assets | \$ | 241 | \$ | 3,069 | \$ | | \$ | 197 | \$ | 3,507 |
| Liabilities | | | | | | | = | | = | |
| Derivative financial instruments - liabilities | | | | | | | | | | |
| Interest rate contracts - net | \$ | _ | \$ | 62 | \$ | _ | \$ | _ | \$ | 62 |
| Total liabilities | \$ | | \$ | 62 | \$ | | \$ | | \$ | 62 |
| | Ψ | | Ψ | 02 | Ψ | | Ψ | | Ψ | 02 |

| | | | | | December 3 | 31, 2 | 021 | |
|---|----|--------|-------------|----|------------|-------|-------------------|---|
| (Millions of dollars) | L | evel 1 | Level 2 | | Level 3 | | easured at NAV | Total Assets / Liabilities, at Fair Value |
| Assets | | | | | | | | |
| Debt securities | | | | | | | | |
| Government debt | | | | | | | | |
| U.S. treasury bonds | \$ | 10 | \$ _ | \$ | _ | \$ | _ | \$ 10 |
| Other U.S. and non-U.S. government bonds | | _ | 61 | | _ | | _ | 61 |
| Corporate bonds | | | | | | | | |
| Corporate bonds | | _ | 1,046 | | _ | | _ | 1,046 |
| Asset-backed securities | | _ | 176 | | _ | | _ | 176 |
| Mortgage-backed debt securities | | | | | | | | |
| U.S. governmental agency | | _ | 325 | | _ | | _ | 325 |
| Residential | | _ | 4 | | _ | | _ | 4 |
| Commercial | | _ | 99 | | | | | 99 |
| Total debt securities | | 10 | 1,711 | | | | _ | 1,721 |
| Equity securities | | | | | | | | |
| Large capitalization value | | 217 | _ | | _ | | _ | 217 |
| Smaller company growth | | 98 | _ | | _ | | _ | 98 |
| REIT | | _ | _ | | _ | | 167 | 167 |
| Total equity securities | | 315 | _ | | | | 167 | 482 |
| Derivative financial instruments - assets | | | | | | | | |
| Foreign currency contracts - net | | _ | 168 | | _ | | _ | 168 |
| Interest rate contracts - net | | _ | 23 | | _ | | _ | 23 |
| Commodity contracts - net | | _ | 21 | | _ | | _ | 21 |
| Total Assets | \$ | 325 | \$ 1,923 | \$ | | \$ | 167 | \$ 2,415 |

In addition to the amounts above, certain Cat Financial loans are subject to measurement at fair value on a nonrecurring basis and are classified as Level 3 measurements. A loan is measured at fair value when management determines that collection of contractual amounts due is not probable and the loan is individually evaluated. In these cases, an allowance for credit losses may be established based either on the present value of expected future cash flows discounted at the receivables' effective interest rate, the fair value of the collateral for collateral-dependent receivables, or the observable market price of the receivable. In determining collateral value, Cat Financial estimates the current fair market value of the collateral less selling costs. Cat Financial had loans carried at fair value of \$98 million and \$100 million as of June 30, 2022 and December 31, 2021, respectively.

B. Fair values of financial instruments

In addition to the methods and assumptions we use to record the fair value of financial instruments as discussed in the Fair value measurements section above, we use the following methods and assumptions to estimate the fair value of our financial instruments:

Cash and cash equivalents

Carrying amount approximates fair value. We classify cash and cash equivalents as Level 1. See Consolidated Statement of Financial Position.

Restricted cash and short-term investments

Carrying amount approximates fair value. We include restricted cash and short-term investments in Prepaid expenses and other current assets in the Consolidated Statement of Financial Position. We classify these instruments as Level 1 except for time deposits which are Level 2. See Note 8 for additional information.

Finance receivables

We estimate fair value by discounting the future cash flows using current rates, representative of receivables with similar remaining maturities.

Wholesale inventory receivables

We estimate fair value by discounting the future cash flows using current rates, representative of receivables with similar remaining maturities.

Short-term borrowings

Carrying amount approximates fair value. We classify short-term borrowings as Level 1. See Consolidated Statement of Financial Position.

Long-term debt

We estimate fair value for fixed and floating rate debt based on quoted market prices.

Guarantees

The fair value of guarantees is based upon our estimate of the premium a market participant would require to issue the same guarantee in a stand-alone arms-length transaction with an unrelated party. If quoted or observable market prices are not available, fair value is based upon internally developed models that utilize current market-based assumptions. We classify guarantees as Level 3. See Note 11 for additional information.

Our financial instruments not carried at fair value were as follows:

| | June 3 | 0, 20 | 022 | | Decembe | er 31 | , 2021 | | |
|--|--------------------|-------|---------------|----|--------------------|---------------|--------|----------------------|-----------|
| (Millions of dollars) | Carrying Amount | | Fair Value | | Carrying Amount | Fair Value | | Fair Value Levels | Reference |
| Assets | | | | | | | | | |
| Finance receivables – net (excluding finance leases ¹) | \$ 13,952 | \$ | 13,528 | \$ | 13,837 | \$ | 13,836 | 3 | Note 17 |
| Wholesale inventory receivables – net (excluding finance leases ¹) | 791 | | 755 | | 773 | | 753 | 3 | |
| Liabilities | | | | | | | | | |
| Long-term debt (including amounts due within one year) | | | | | | | | | |
| Machinery, Energy & Transportation | 9,713 | | 9,881 | | 9,791 | | 12,420 | 2 | |
| Financial Products | 22,247 | | 21,710 | | 22,594 | | 22,797 | 2 | |

¹ Represents finance leases and failed sale leasebacks of \$7,614 million and \$8,083 million at June 30, 2022 and December 31, 2021, respectively.

19. Other income (expense)

| | Thr | ee Month | Six Months Ended June 30 | | | | |
|---|-----|----------|--------------------------|----|------|----|------|
| (Millions of dollars) | | 2022 | 2021 | 2 | 2022 | | 2021 |
| Investment and interest income | \$ | 25 | \$ 21 | \$ | 46 | \$ | 44 |
| Foreign exchange gains (losses) ¹ | | 224 | (32) | | 271 | | 63 |
| License fee income | | 37 | 32 | | 69 | | 57 |
| Net periodic pension and OPEB income (cost), excluding service cost | | 66 | 111 | | 134 | | 222 |
| Gains (losses) on securities | | (47) | 17 | | (59) | | 42 |
| Miscellaneous income (loss) | | (45) | 52 | | 52 | | 98 |
| Total | \$ | 260 | \$ 201 | \$ | 513 | \$ | 526 |

¹ Includes gains (losses) from foreign exchange derivative contracts. See Note 5 for further details.

20. Restructuring costs

Our accounting for employee separations is dependent upon how the particular program is designed. For voluntary programs, we recognize eligible separation costs at the time of employee acceptance unless the acceptance requires explicit approval by the company. For involuntary programs, we recognize eligible costs when management has approved the program, the affected employees have been properly notified and the costs are estimable.

Restructuring costs for the three and six months ended June 30, 2022 and 2021 were as follows:

| (Millions of dollars) | Thi | Six Months Ended June 30 | | | | | |
|---|-----|--------------------------|----------|----------|----|------|--|
| | | 2022 | 2021 | 2022 | | 2021 | |
| Employee separations ¹ | \$ | 18 | \$ 17 | \$ 23 | \$ | 62 | |
| Long-lived asset impairments ¹ | | 5 | (7) | 5 | | 4 | |
| Other ² | | 5 | 15 | 13 | | 23 | |
| Total restructuring costs | \$ | 28 | \$ 25 | \$ 41 | \$ | 89 | |

¹ Recognized in Other operating (income) expenses.

For both the six months ended June 30, 2022 and 2021, the restructuring costs were primarily related to actions across the company including strategic actions to address a small number of products.

In 2022 and 2021, all restructuring costs are excluded from segment profit.

The following table summarizes the 2022 and 2021 employee separation activity:

| (Millions of dollars) | Six Mon | hs Ended | June 30 | | |
|--|---------|----------|---------|--|--|
| | 2022 | | 2021 | | |
| Liability balance, beginning of period | \$ | 61 \$ | 164 | | |
| Increase in liability (separation charges) | | 23 | 62 | | |
| Reduction in liability (payments) | | (50) | (82) | | |
| Liability balance, end of period | \$ | 34 \$ | 144 | | |

Most of the liability balance at June 30, 2022 is expected to be paid in 2022.

² Represents costs related to our restructuring programs, primarily for accelerated depreciation, equipment relocation, inventory write-downs and project management, all of which are primarily included in Cost of goods sold.

Item 2. Management's Discussion and Analysis of Financial Condition and Results of Operations

The following Management's Discussion and Analysis of Financial Condition and Results of Operations (MD&A) is intended to provide information that will assist the reader in understanding the company's Consolidated Financial Statements, the changes in certain key items in those financial statements between select periods and the primary factors that accounted for those changes. In addition, we discuss how certain accounting principles, policies and critical estimates affect our Consolidated Financial Statements. Our discussion also contains certain forward-looking statements related to future events and expectations. This MD&A should be read in conjunction with our discussion of cautionary statements and significant risks to the company's business under Part I, Item 1A. Risk Factors of the 2021 Form 10-K.

Highlights for the second quarter of 2022 include:

- Total sales and revenues for the second quarter of 2022 were \$14.247 billion, an increase of \$1.358 billion, or 11 percent, compared with \$12.889 billion in the second quarter of 2021. Sales were higher across the three primary segments.
- Operating profit margin was 13.6 percent for the second quarter of 2022, compared with 13.9 percent for the second quarter of 2021. *Adjusted operating profit margin* was 13.8 percent for the second quarter of 2022, compared with 14.1 percent for the second quarter of 2021.
- Second-quarter 2022 profit per share was \$3.13, and excluding the items in the table below, *adjusted profit per share* was \$3.18. Second-quarter 2021 profit per share was \$2.56 and, excluding the items in the table below, adjusted profit per share was \$2.60.
- Caterpillar ended the second quarter of 2022 with \$6.0 billion of enterprise cash.

Highlights for the six months ended June 30, 2022 include:

- Total sales and revenues were \$27.836 billion for the six months ended June 30, 2022, an increase of \$3.060 billion, or 12 percent, compared with \$24.776 billion for the six months ended June 30, 2021.
- Operating profit margin was 13.6 percent for the six months ended June 30, 2022, compared with 14.5 percent for the six months ended June 30, 2021.

 Adjusted operating profit margin was 13.8 percent for the six months ended June 30, 2022, compared with 14.9 percent for the six months ended June 30, 2021.
- Profit per share for the six months ended June 30, 2022, was \$5.99 and, excluding the items in the table below, adjusted profit per share was \$6.06. Profit per share for the six months ended June 30, 2021, was \$5.33, and excluding the items in the table below, adjusted profit per share was \$5.47.
- Enterprise operating cash flow was \$2.5 billion for the six months ended June 30, 2022.
- In order for our results to be more meaningful to our readers, we have separately quantified the impact of several significant items. A detailed reconciliation of GAAP to non-GAAP financial measures is included on page 64.

| | Three M | Three Months Ended June 30, 2022 | | | hree Months Ended | June 30, 2021 | Six | Months Ended | June 30, 2022 | Six Months Ended June 30, 202 | | | |
|---|---------|----------------------------------|---------------------|----|------------------------|---------------------|-----|-----------------------|---------------------|-------------------------------|-----------------------|---------------------|--|
| (Dollars in millions except per share data) | | Before | Profit Per Share | | Profit Before Taxes | Profit Per Share | P | rofit Before Taxes | Profit Per Share | Pi | rofit Before Taxes | Profit Per Share | |
| Profit | \$ | 2,096 \$ | 3.13 | \$ | 1,870 \$ | 2.56 | \$ | 4,095 \$ | 5.99 | \$ | 3,867 \$ | 5.33 | |
| Restructuring costs | | 28 | 0.05 | | 25 | 0.04 | | 41 | 0.07 | | 89 | 0.14 | |
| Adjusted profit | \$ | 2,124 \$ | 3.18 | \$ | 1,895 \$ | 2.60 | \$ | 4,136 \$ | 6.06 | \$ | 3,956 \$ | 5.47 | |

Overview

Total sales and revenues for the second quarter of 2022 were \$14.247 billion, an increase of \$1.358 billion, or 11 percent, compared with \$12.889 billion in the second quarter of 2021. The increase was due to favorable *price realization* and higher *sales volume*, partially offset by unfavorable *currency* impacts primarily related to the euro, Australian dollar and Japanese yen. The increase in sales volume was driven by *services*, partially offset by lower sales of equipment to end users. Sales were higher across the three primary segments.

Second-quarter 2022 profit per share was \$3.13, compared with \$2.56 profit per share in the second quarter of 2021. Profit per share for both quarters included restructuring costs. Profit for the second quarter of 2022 was \$1.673 billion, an increase of \$260 million, or 18%, compared with \$1.413 billion for the second quarter of 2021. The increase was primarily due to favorable price realization and higher sales volume, partially offset by unfavorable *manufacturing costs*. Unfavorable manufacturing costs largely reflected higher material and freight costs.

Global Business Conditions:

We continue to monitor a variety of external factors including the ongoing impact of the COVID-19 pandemic around the world, supply chain disruptions, inflationary cost and labor pressures. Areas of particular focus include certain components, transportation and raw materials. Transportation shortages have resulted in delays and increased costs. In addition, our suppliers are dealing with availability issues and freight delays, which leads to pressure on production in our facilities. Contingency plans have been developed and continue to be modified to minimize supply chain challenges that may impact our ability to meet increasing customer demand. We continue to assess the environment and are taking appropriate price actions in response to rising costs. We will continue to monitor the situation as conditions remain fluid and evolve throughout the year.

Notes:

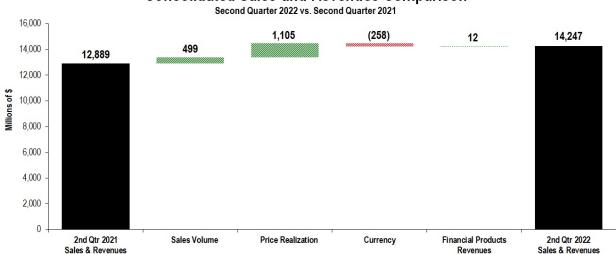
- Glossary of terms is included on pages 58 60; first occurrence of terms shown in bold italics.
- Information on non-GAAP financial measures is included on page 64.
- · Certain amounts may not add due to rounding.

Consolidated Results of Operations

THREE MONTHS ENDED JUNE 30, 2022 COMPARED WITH THREE MONTHS ENDED JUNE 30, 2021

CONSOLIDATED SALES AND REVENUES

Consolidated Sales and Revenues Comparison



The chart above graphically illustrates reasons for the change in consolidated sales and revenues between the second quarter of 2021 (at left) and the second quarter of 2022 (at right). Caterpillar management utilizes these charts internally to visually communicate with the company's Board of Directors and employees.

Total sales and revenues for the second quarter of 2022 were \$14.247 billion, an increase of \$1.358 billion, or 11 percent, compared with \$12.889 billion in the second quarter of 2021. The increase was due to favorable price realization and higher sales volume, partially offset by unfavorable currency impacts primarily related to the euro, Australian dollar and Japanese yen. The increase in sales volume was driven by services, partially offset by lower sales of equipment to end users.

Sales were higher across the three primary segments.

North America sales increased 20 percent due to favorable price realization and services. Lower sales of equipment to end users was mostly offset by the impact of changes in *dealer inventories*. Dealers decreased inventories more during the second quarter of 2021 than during the second quarter of 2022.

Sales increased 27 percent in *Latin America* due to higher sales of equipment to end users, favorable price realization and services, partially offset by the impact of changes in dealer inventories. Dealers increased inventories during the second quarter of 2021, compared with a decrease during the second quarter of 2022.

EAME sales decreased 3 percent due to unfavorable currency impacts, primarily related to the euro and British pound, and the impact of changes in dealer inventories, partially offset by favorable price realization. Dealers increased inventories during the second quarter of 2021, compared with a decrease during the second quarter of 2022.

Asia/Pacific sales increased 4 percent driven by favorable price realization and services, partially offset by unfavorable currency impacts, related to the Australian dollar and Japanese yen, and lower sales of equipment to end users.

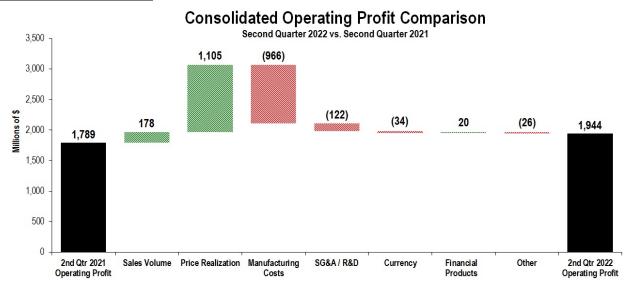
Dealers decreased inventories by \$400 million during the second quarter of 2022 and during the second quarter of 2021. Dealers are independent, and the reasons for changes in their inventory levels vary, including their expectations of future demand and product delivery times. Dealers' demand expectations take into account seasonal changes, macroeconomic conditions, machine rentals and other factors. Delivery times can vary based on availability of product from Caterpillar factories and product distribution centers. We do not expect a significant increase in dealer inventory in 2022.

| Sales and Revenues by Segment (Millions of dollars) | Second Quarter 2021 | | Sales Volume | rice zation | C | urrency | Inter- Segment / Other | Second arter 2022 | \$ Change | % Change | |
|---|------------------------|---------|-----------------|----------------|-------------|---------|------------------------------|----------------------|------------------|-------------|-------|
| Construction Industries | \$ | 5,656 | \$ | (25) | \$ 535 | \$ | (122) | \$ (11) | \$ 6,033 | \$ 377 | 7 % |
| Resource Industries | | 2,547 | | 140 | 317 | | (33) | (10) | 2,961 | 414 | 16 % |
| Energy & Transportation | | 4,975 | | 363 | 260 | | (103) | 210 | 5,705 | 730 | 15 % |
| All Other Segment | | 128 | | 4 | 1 | | (1) | (14) | 118 | (10) | (8 %) |
| Corporate Items and Eliminations | | (1,113) | | 17 | (8) | | 1 | (175) | (1,278) | (165) | |
| Machinery, Energy & Transportation Sales | | 12,193 | | 499 | 1,105 | | (258) | | 13,539 | 1,346 | 11 % |
| Financial Products Segment | | 774 | | _ | _ | | _ | 24 | 798 | 24 | 3 % |
| Corporate Items and Eliminations | | (78) | | _ | _ | | _ | (12) | (90) | (12) | |
| Financial Products Revenues | | 696 | | _ | _ | | _ | 12 | 708 | 12 | 2 % |
| Consolidated Sales and Revenues | \$ | 12,889 | \$ | 499 | \$ 1,105 | \$ | (258) | \$ 12 | \$ 14,247 | \$ 1,358 | 11 % |

| | | North A | merica | | Latin A | merica | | EAN | ИE | | Asia/P | acific | External Reve | Sales and | | Inter-Se | egment | To | otal Sales and | Revenues |
|--|----|---------|--------|----|---------|---------|----|-------|-------|----|--------|--------|------------------|-----------|----|----------|--------|----|----------------|----------|
| (Millions of dollars) | _ | s | % Chg | _ | S | % Chg | _ | \$ | % Chg | _ | s | % Chg | \$ | % Chg | _ | s | % Chg | | s | % Chg |
| Second Quarter 2022 | _ | | | | | | | | | _ | | | | | | | | | | |
| Construction Industries | \$ | 3,006 | 20 % | \$ | 635 | 48 % | \$ | 1,202 | (7 %) | \$ | 1,148 | (17%) | \$ 5,991 | 7 % | \$ | 42 | (21 %) | \$ | 6,033 | 7 % |
| Resource Industries | | 1,027 | 29 % | | 466 | (4 %) | | 489 | (7 %) | | 913 | 38 % | 2,895 | 17 % | | 66 | (13 %) | | 2,961 | 16 % |
| Energy & Transportation | | 2,277 | 14 % | | 382 | 53 % | | 1,215 | 2 % | | 766 | 12 % | 4,640 | 13 % | | 1,065 | 25 % | | 5,705 | 15 % |
| All Other Segment | | 18 | 64 % | | _ | (100 %) | | 5 | 25 % | | 15 | (17 %) | 38 | 12 % | | 80 | (15 %) | | 118 | (8 %) |
| Corporate Items and Eliminations | | (20) | | | (2) | | | _ | | | (3) | | (25) | | | (1,253) | | | (1,278) | |
| Machinery, Energy & Transportation Sales | | 6,308 | 20 % | | 1,481 | 27 % | | 2,911 | (3 %) | | 2,839 | 4 % | 13,539 | 11 % | | _ | _ | | 13,539 | 11 % |
| Financial Products Segment | | 505 | 3 % | | 87 | 34 % | | 97 | 1 % | | 109 | (13 %) | 798 | 1 3 % | | _ | _ | | 798 | 3 % |
| Corporate Items and Eliminations | | (42) | | | (21) | | | (10) | | | (17) | | (90) | | | _ | | | (90) | |
| Financial Products Revenues | | 463 | 3 % | | 66 | 22 % | | 87 | % | | 92 | (12 %) | 708 | 2 % | | _ | _ | | 708 | 2 % |
| Consolidated Sales and Revenues | \$ | 6,771 | 18 % | \$ | 1,547 | 27 % | \$ | 2,998 | (3 %) | \$ | 2,931 | 3 % | \$ 14,247 | 11 % | \$ | | _ | \$ | 14,247 | 11 % |
| Second Quarter 2021 | | | | | | | | | | | | | | | | | | | | |
| Construction Industries | \$ | 2,498 | | \$ | 430 | | \$ | 1,291 | | \$ | 1,384 | | \$ 5,603 | | \$ | 53 | | \$ | 5,656 | |
| Resource Industries | | 799 | | | 487 | | | 525 | | | 660 | | 2,471 | | | 76 | | | 2,547 | |
| Energy & Transportation | | 1,992 | | | 250 | | | 1,196 | | | 682 | | 4,120 | | | 855 | | | 4,975 | |
| All Other Segment | | 11 | | | 1 | | | 4 | | | 18 | | 34 | | | 94 | | | 128 | |
| Corporate Items and Eliminations | | (31) | | | (1) | | | (1) | | | (2) | | (35) | | | (1,078) | | | (1,113) | |
| Machinery, Energy & Transportation Sales | | 5,269 | | | 1,167 | | | 3,015 | | | 2,742 | | 12,193 | | | _ | | | 12,193 | |
| Financial Products Segment | | 488 | | | 65 | | | 96 | | | 125 | | 774 | 1 | | _ | | | 774 | |
| Corporate Items and Eliminations | | (38) | | | (11) | | | (9) | | | (20) | | (78) | | | _ | | | (78) | |
| Financial Products Revenues | | 450 | | | 54 | | | 87 | | | 105 | | 696 | | | _ | | | 696 | |
| Consolidated Sales and Revenues | \$ | 5,719 | | \$ | 1,221 | | \$ | 3,102 | | \$ | 2,847 | | \$ 12,889 | | \$ | | | \$ | 12,889 | |

 $^{^1\,}Includes\,revenues\,from\,Machinery, Energy\,\&\,Transportation\,of\,\$108\,million\,and\,\$92\,million\,in\,the\,second\,quarter\,of\,2022\,and\,2021, respectively.$

CONSOLIDATED OPERATING PROFIT



The chart above graphically illustrates reasons for the change in consolidated operating profit between the second quarter of 2021 (at left) and the second quarter of 2022 (at right). Caterpillar management utilizes these charts internally to visually communicate with the company's Board of Directors and employees. The bar titled Other includes *consolidating adjustments* and *Machinery, Energy & Transportation other operating (income) expenses*.

Operating profit for the second quarter of 2022 was \$1.944 billion, an increase of \$155 million, or 9 percent, compared with \$1.789 billion in the second quarter of 2021. The increase was primarily due to favorable price realization and higher sales volume, partially offset by higher manufacturing costs and higher selling, general and administrative (SG&A) and research and development (R&D) expenses. Unfavorable manufacturing costs largely reflected higher material and freight costs. The increase in SG&A/R&D expenses was mainly driven by investments aligned with the company's strategy for profitable growth and higher short-term incentive compensation expense.

Short-term incentive compensation expense was about \$500 million in the second quarter of 2022, compared to about \$400 million in the second quarter of 2021.

Operating profit margin was 13.6 percent for the second quarter of 2022, compared with 13.9 percent for the second quarter of 2021.

| Profit (Loss) by Segment | | | | | |
|------------------------------------|----------|-------------|---------------------|---------|--------|
| (25) | g 10 | . 2022 | G 10 / 2021 | \$ | % |
| (Millions of dollars) | Second Q | uarter 2022 | Second Quarter 2021 | Change | Change |
| Construction Industries | \$ | 989 \$ | 1,029 | \$ (40) | (4 %) |
| Resource Industries | | 355 | 349 | 6 | 2 % |
| Energy & Transportation | | 659 | 738 | (79) | (11 %) |
| All Other Segment | | 31 | (10) | 41 | n/a |
| Corporate Items and Eliminations | | (230) | (453) | 223 | |
| Machinery, Energy & Transportation | | 1,804 | 1,653 | 151 | 9 % |
| Financial Products Segment | | 217 | 243 | (26) | (11 %) |
| Corporate Items and Eliminations | | 17 | (29) | 46 | |
| Financial Products | | 234 | 214 | 20 | 9 % |
| Consolidating Adjustments | | (94) | (78) | (16) | |
| Consolidated Operating Profit | \$ | 1,944 \$ | 1,789 | \$ 155 | 9 % |
| | | | | | |

Corporate Items and Eliminations included corporate-level expenses, timing differences (as some expenses are reported in segment profit on a cash basis), methodology differences between segment and consolidated external reporting (the company values segment inventories and cost of sales using a current cost methodology), certain restructuring costs and inter-segment eliminations.

Other Profit/Loss and Tax Items

- Interest expense excluding Financial Products in the second quarter of 2022 was \$108 million, compared with \$120 million in the second quarter of 2021. The decrease was due to lower average debt outstanding during the second quarter of 2022, compared with the second quarter of 2021.
- Other income (expense) in the second quarter of 2022 was income of \$260 million, compared with income of \$201 million in the second quarter of 2021. The change was primarily driven by favorable impacts from foreign currency exchange, partially offset by unfavorable impacts from commodity hedges, unrealized losses on marketable securities and lower pension and other postemployment benefit (OPEB) plan income.
- The provision for income taxes for the second quarter of 2022 reflected an estimated annual tax rate of 23.5 percent, compared with 26 percent for the second quarter of 2021, excluding the discrete items discussed below. The comparative tax rate for full-year 2021 was approximately 23 percent.

In the second quarter of 2022, the company recorded a \$10 million benefit due to the change from the first-quarter estimated annual tax rate of 24 percent. In addition, the company recorded discrete tax benefits of \$55 million primarily for a prior year tax adjustment due to a change in estimate, compared with a \$17 million benefit in the second quarter of 2021 for the settlement of stock-based compensation awards with associated tax deductions in excess of cumulative U.S. GAAP compensation expense.

Construction Industries

Construction Industries' total sales were \$6.033 billion in the second quarter of 2022, an increase of \$377 million, or 7 percent, compared with \$5.656 billion in the second quarter of 2021. The increase was due to favorable price realization, partially offset by unfavorable currency impacts primarily related to the euro, Japanese yen and Australian dollar. Sales volume decreased slightly as lower sales of equipment to end users was mostly offset by higher sales of aftermarket parts.

- In North America, sales increased due to favorable price realization and higher sales volume. Higher sales volume was driven by the impact from changes in dealer inventories. Dealer inventory decreased more during the second quarter of 2021 than during the second quarter of 2022.
- Sales increased in Latin America primarily due to higher sales volume and favorable price realization. Higher sales volume was driven by higher sales
 of equipment to end users, partially offset by the impact from changes in dealer inventories. Dealer inventory decreased during the second quarter of
 2022, compared with an increase during the second quarter of 2021.
- In EAME, sales decreased due to lower sales volume and unfavorable currency impacts primarily related to the euro, partially offset by favorable price realization. Lower sales volume was primarily driven by the impact from changes in dealer inventories. Dealer inventory decreased during the second quarter of 2022, compared with an increase during the second quarter of 2021.
- Sales decreased in Asia/Pacific mainly due to lower sales volume and unfavorable currency impacts primarily related to the Japanese yen and Australian dollar, partially offset by favorable price realization. Lower sales volume was driven by lower sales of equipment to end users, primarily in China.

Construction Industries' profit was \$989 million in the second quarter of 2022, a decrease of \$40 million, or 4 percent, compared with \$1.029 billion in the second quarter of 2021. Favorable price realization was offset by unfavorable manufacturing costs and lower sales volume. Unfavorable manufacturing costs largely reflected higher material and freight costs.

Construction Industries' profit as a percent of total sales was 16.4 percent in the second quarter of 2022, compared with 18.2 percent in the second quarter of 2021.

Resource Industries

Resource Industries' total sales were \$2.961 billion in the second quarter of 2022, an increase of \$414 million, or 16 percent, compared with \$2.547 billion in the second quarter of 2021. The increase was primarily due to favorable price realization and higher sales volume. The increase in sales volume was due to higher sales of aftermarket parts.

Resource Industries' profit was \$355 million in the second quarter of 2022, an increase of \$6 million, or 2 percent, compared with \$349 million in the second quarter of 2021. Unfavorable manufacturing costs were offset by favorable price realization and higher sales volume. Unfavorable manufacturing costs largely reflected higher material and freight costs.

Resource Industries' profit as a percent of total sales was 12.0 percent in the second quarter of 2022, compared with 13.7 percent in the second quarter of 2021.

Energy & Transportation

| Sales by Application | | | | | _ |
|-----------------------|----------------|------|--------------------|--------------|-------------|
| (Millions of dollars) | Quarter 022 | Seco | nd Quarter 2021 | \$ Change | % Change |
| Oil and Gas | \$ 1,232 | \$ | 1,137 | \$ 95 | 8 % |
| Power Generation | 1,186 | | 1,052 | 134 | 13 % |
| Industrial | 1,117 | | 899 | 218 | 24 % |
| Transportation | 1,105 | | 1,032 | 73 | 7 % |
| External Sales | 4,640 | | 4,120 | 520 | 13 % |
| Inter-segment | 1,065 | | 855 | 210 | 25 % |
| Total Sales | \$ 5,705 | \$ | 4,975 | \$ 730 | 15 % |

Energy & Transportation's total sales were \$5.705 billion in the second quarter of 2022, an increase of \$730 million, or 15 percent, compared with \$4.975 billion in the second quarter of 2021. Sales increased across all applications and inter-segment sales.

- Oil and Gas Sales increased due to higher sales of reciprocating engine aftermarket parts and engines used in well servicing and gas compression applications, primarily in North America, partially offset by lower sales for turbines and turbine-related services.
- Power Generation Sales rose due to higher sales volume in small reciprocating engine applications, reciprocating engine aftermarket parts and turbines and turbine-related services.
- Industrial Sales were up due to higher sales volumes across all regions.
- Transportation Sales increased in reciprocating engines aftermarket parts and rail services.

Energy & Transportation's profit was \$659 million in the second quarter of 2022, a decrease of \$79 million, or 11 percent, compared with \$738 million in the second quarter of 2021. The decrease was mainly due to unfavorable manufacturing costs and higher SG&A/R&D expenses, partially offset by favorable price realization and higher sales volume. Unfavorable manufacturing costs largely reflected higher material and freight costs. The increase in SG&A/R&D expenses was primarily driven by investments aligned with strategic initiatives and higher short-term incentive compensation expense.

Energy & Transportation's profit as a percent of total sales was 11.6 percent in the second quarter of 2022, compared with 14.8 percent in the second quarter of 2021.

Financial Products Segment

Financial Products' segment revenues were \$798 million in the second quarter of 2022, an increase of \$24 million, or 3 percent, compared with \$774 million in the second quarter of 2021. The increase was primarily due to a favorable impact from returned or repossessed equipment in North America and higher average financing rates in Latin America, partially offset by lower average *earning assets* in Asia/Pacific.

Financial Products' segment profit was \$217 million in the second quarter of 2022, a decrease of \$26 million, or 11 percent, compared with \$243 million in the second quarter of 2021. The decrease was mainly due to an unfavorable impact from equity securities in Insurance Services and a higher provision for credit losses at Cat Financial, partially offset by a favorable impact from returned or repossessed equipment.

At the end of the second quarter of 2022, past dues at Cat Financial were 2.19 percent, compared with 2.58 percent at the end of the second quarter of 2021. The decrease in past dues was mostly driven by the Caterpillar Power Finance, EAME and North America portfolios. Write-offs, net of recoveries, were less than \$1 million for the second quarter of 2022, compared with \$54 million for the second quarter of 2021. As of June 30, 2022, Cat Financial's allowance for credit losses totaled \$376 million, or 1.41% of finance receivables, compared with \$357 million, or 1.29 percent of finance receivables at March 31, 2022. The increase in allowance for credit losses included a higher reserve for the Russia and Ukraine portfolios. The allowance for credit losses at year-end 2021 was \$337 million, or 1.22 percent of finance receivables.

Corporate Items and Eliminations

Expense for corporate items and eliminations was \$213 million in the second quarter of 2022, a decrease of \$269 million from the second quarter of 2021, primarily driven by lower expenses due to timing differences, favorable impacts of segment reporting methodology and a favorable change in fair value adjustments related to deferred compensation plans, partially offset by higher corporate costs.

SIX MONTHS ENDED JUNE 30, 2022 COMPARED WITH SIX MONTHS ENDED JUNE 30, 2021

Sales Volume

CONSOLIDATED SALES AND REVENUES

Consolidated Sales and Revenues Comparison June YTD 2022 vs. June YTD 2021 1,809 (469) 19 27,836 24,776 24,776 24,776 1,000 5,000 -

The chart above graphically illustrates reasons for the change in consolidated sales and revenues between the six months ended June 30, 2021 (at left) and the six months ended June 30, 2022 (at right). Caterpillar management utilizes these charts internally to visually communicate with the company's Board of Directors and employees.

Currency

Price Realization

June YTD 2022

Sales & Revenue

Financial Products

Revenue

Total sales and revenues were \$27.836 billion for the six months ended June 30, 2022, an increase of \$3.060 billion, or 12 percent, compared with \$24.776 billion for the six months ended June 30, 2021. The increase was primarily due to favorable price realization and higher sales volume, partially offset by unfavorable currency impacts related to the euro, Australian dollar and Japanese yen. The increase in sales volume was driven by services and the impact from changes in dealer inventories, partially offset by lower sales of equipment to end users. Dealers increased inventories about \$900 million during the six months ended June 30, 2022, compared with an increase of \$300 million during the six months ended June 30, 2021.

Sales were higher in the three primary segments.

0

June YTD 2021

North America sales increased 22 percent driven by favorable price realization, services and the impact from changes in dealer inventories. Dealers decreased inventories during the six months ended June 30, 2021, compared with an increase during the six months ended June 30, 2022.

Sales increased 27 percent in Latin America due to favorable price realization, services and higher sales of equipment to end users.

EAME sales increased 5 percent due to favorable price realization, services, higher sales of equipment to end users and the impact from changes in dealer inventories, partially offset by unfavorable currency impacts related to the euro and British pound. Dealers increased inventories more during the six months ended June 30, 2022, than during the six months ended June 30, 2021.

Asia/Pacific sales were about flat as lower sales of equipment to end users and unfavorable currency impacts related to the Australian dollar and Japanese yen were mostly offset by favorable price realization and services.

Dealers increased inventories about \$900 million during the six months ended June 30, 2022, compared with an increase of \$300 million during the six months ended June 30, 2021. Dealers are independent, and the reasons for changes in their inventory levels vary, including their expectations of future demand and product delivery times. Dealers' demand expectations take into account seasonal changes, macroeconomic conditions, machine rentals and other factors. Delivery times can vary based on availability of product from Caterpillar factories and product distribution centers. We do not expect a significant increase in dealer inventory in 2022.

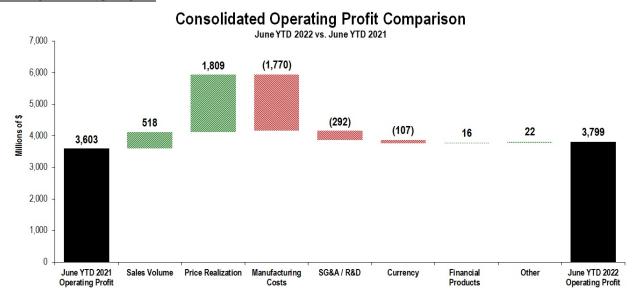
| Sales and Revenues by Segment (Millions of dollars) | Months ed June 30, 2021 | | Sales Volume | 1 | Price Realization | urrency | Inter- Segment / Other | x Months ed June 30, 2022 | _(| \$ Change | % Change |
|---|-------------------------|----|-----------------|----|----------------------|-------------|------------------------------|---------------------------------|----|--------------|-------------|
| Construction Industries | \$ 11,115 | \$ | 300 | \$ | 956 | \$ (223) | \$ _ | \$ 12,148 | \$ | 1,033 | 9 % |
| Resource Industries | 4,725 | | 667 | | 486 | (67) | (20) | 5,791 | | 1,066 | 23 % |
| Energy & Transportation | 9,482 | | 696 | | 375 | (177) | 367 | 10,743 | | 1,261 | 13 % |
| All Other Segment | 258 | | 6 | | 1 | (2) | (27) | 236 | | (22) | (9 %) |
| Corporate Items and Eliminations | (2,196) | | 32 | | (9) | _ | (320) | (2,493) | | (297) | |
| Machinery, Energy & Transportation Sales | 23,384 | | 1,701 | | 1,809 | (469) | | 26,425 | | 3,041 | 13 % |
| Financial Products Segment | 1,535 | | _ | | _ | _ | 46 | 1,581 | | 46 | 3 % |
| Corporate Items and Eliminations | (143) | | _ | | _ | _ | (27) | (170) | | (27) | |
| Financial Products Revenues | 1,392 | _ | _ | | | | 19 | 1,411 | | 19 | 1 % |
| Consolidated Sales and Revenues | \$ 24,776 | \$ | 1,701 | \$ | 1,809 | \$ (469) | \$ 19 | \$ 27,836 | \$ | 3,060 | 12 % |

Sales and Revenues by Geographic Region

| | | North A | merica | | Latin A | merica | | EAN | ME | | Asia/P | acific | | External Reve | Sales a | and | | Inter-S | egment | Т | otal Sales and | l Revenues |
|--|----|---------|--------|----|---------|---------|----|-------|-------|----|--------|--------|----|------------------|---------|-------|----|---------|--------|----|----------------|------------|
| (Millions of dollars) | _ | S | % Chg | _ | \$ | % Chg | _ | S | % Chg | _ | \$ | % Chg | _ | \$ | 9, | 6 Chg | _ | \$ | % Chg | _ | S | % Chg |
| Six Months Ended June 30, 2022 | _ | | | _ | | | _ | | | _ | | | _ | | _ | | _ | | | _ | | |
| Construction Industries | \$ | 5,726 | 24 % | \$ | 1,262 | 54 % | \$ | 2,479 | 5 % | \$ | 2,610 | (19 %) | \$ | 12,077 | | 9 % | \$ | 71 | % | \$ | 12,148 | 9 % |
| Resource Industries | | 2,045 | 40 % | | 865 | (3 %) | | 1,083 | 8 % | | 1,661 | 36 % | | 5,654 | | 24 % | | 137 | (13 %) | | 5,791 | 23 % |
| Energy & Transportation | | 4,215 | 12 % | | 692 | 37 % | | 2,399 | 5 % | | 1,366 | 13 % | | 8,672 | | 11 % | | 2,071 | 22 % | | 10,743 | 13 % |
| All Other Segment | | 36 | 50 % | | _ | (100 %) | | 10 | 43 % | | 31 | (23 %) | | 77 | | 7 % | | 159 | (15 %) | | 236 | (9 %) |
| Corporate Items and Eliminations | | (44) | | | (1) | | | (2) | | | (8) | | | (55) | | | | (2,438) | | | (2,493) | |
| Machinery, Energy & Transportation Sales | | 11,978 | 22 % | | 2,818 | 27 % | | 5,969 | 5 % | | 5,660 | (1 %) | | 26,425 | | 13 % | | _ | -% | | 26,425 | 13 % |
| Financial Products Segment | | 1,008 | 5 % | | 160 | 26 % | | 193 | (2 %) | | 220 | (11 %) | | 1,581 | 1 | 3 % | | _ | % | | 1,581 | 3 % |
| Corporate Items and Eliminations | | (78) | | | (38) | | | (19) | | | (35) | | | (170) | | | | _ | | | (170) | |
| Financial Products Revenues | _ | 930 | 3 % | _ | 122 | 16 % | _ | 174 | (3 %) | | 185 | (10 %) | _ | 1,411 | | 1 % | | _ | % | | 1,411 | 1 % |
| Consolidated Sales and Revenues | \$ | 12,908 | 21 % | \$ | 2,940 | 26 % | \$ | 6,143 | 5 % | \$ | 5,845 | (1 %) | \$ | 27,836 | | 12 % | \$ | | -% | \$ | 27,836 | 12 % |
| Six Months Ended June 30, 2021 | | | | | | | | | | | | | | | | | | | | | | |
| Construction Industries | \$ | 4,624 | | \$ | 822 | | \$ | 2,372 | | \$ | 3,226 | | \$ | 11,044 | | | \$ | 71 | | \$ | 11,115 | |
| Resource Industries | | 1,456 | | | 892 | | | 999 | | | 1,221 | | | 4,568 | | | | 157 | | | 4,725 | |
| Energy & Transportation | | 3,774 | | | 506 | | | 2,289 | | | 1,209 | | | 7,778 | | | | 1,704 | | | 9,482 | |
| All Other Segment | | 24 | | | 1 | | | 7 | | | 40 | | | 72 | | | | 186 | | | 258 | |
| Corporate Items and Eliminations | | (70) | | | (1) | | | (1) | | | (6) | | | (78) | | | | (2,118) | | | (2,196) | |
| Machinery, Energy & Transportation Sales | | 9,808 | | | 2,220 | | | 5,666 | | | 5,690 | | | 23,384 | | | | _ | | | 23,384 | |
| Financial Products Segment | | 964 | | | 127 | | | 196 | | | 248 | | | 1,535 | 1 | | | _ | | | 1,535 | |
| Corporate Items and Eliminations | | (62) | | | (22) | | | (17) | | | (42) | | | (143) | | | | _ | | | (143) | |
| Financial Products Revenues | _ | 902 | | _ | 105 | | _ | 179 | | | 206 | | _ | 1,392 | | | _ | | | _ | 1,392 | |
| Consolidated Sales and Revenues | \$ | 10,710 | | \$ | 2,325 | | \$ | 5,845 | | \$ | 5,896 | | \$ | 24,776 | | | \$ | | | s | 24,776 | |

¹ Includes revenues from Machinery, Energy & Transportation of \$208 million and \$176 million in the six months ended June 30, 2022 and 2021, respectively.

CONSOLIDATED OPERATING PROFIT



The chart above graphically illustrates reasons for the change in consolidated operating profit between the six months ended June 30, 2021 (at left) and the six months ended June 30, 2021 (at right). Caterpillar management utilizes these charts internally to visually communicate with the company's Board of Directors and employees. The bar titled Other includes consolidating adjustments and Machinery, Energy & Transportation's other operating (income) expenses.

Operating profit for the six months ended June 30, 2022, was \$3.799 billion, an increase of \$196 million, or 5 percent, compared with \$3.603 billion for the six months ended June 30, 2021. The increase was due to favorable price realization and higher sales volume, partially offset by unfavorable manufacturing costs and higher SG&A/R&D expenses.

Unfavorable manufacturing costs primarily reflected higher material and freight costs. For 2022, price realization is expected to more than offset manufacturing cost increases. The increase in SG&A/R&D expenses was driven by investments aligned with the company's strategy for profitable growth and higher short-term incentive compensation expense.

Short-term incentive compensation expense is directly related to financial and operational performance, measured against targets set annually. Expense for the six months ended June 30, 2022, was about \$800 million, compared with about \$700 million for the six months ended June 30, 2021. For 2022, short-term incentive compensation expense is expected to be about \$1.6 billion, compared with \$1.3 billion in 2021.

Operating profit margin was 13.6 percent for the six months ended June 30, 2022, compared with 14.5 percent for the six months ended June 30, 2021.

| (Millions of dollars) | Six Months | s Ended June 30, 2022 | Ended June 30, 021 | C | \$ hange | % Change |
|------------------------------------|------------|--------------------------|-----------------------|----|-------------|-------------|
| Construction Industries | \$ | 2,046 | \$ 2,071 | \$ | (25) | (1 %) |
| Resource Industries | | 716 | 661 | | 55 | 8 % |
| Energy & Transportation | | 1,197 | 1,413 | | (216) | (15 %) |
| All Other Segment | | 34 | (7) | | 41 | n/a |
| Corporate Items and Eliminations | | (474) | (821) | | 347 | |
| Machinery, Energy & Transportation | | 3,519 | 3,317 | | 202 | 6 % |
| Financial Products Segment | | 455 | 487 | | (32) | (7 %) |
| Corporate Items and Eliminations | | _ | (48) | | 48 | |
| Financial Products | | 455 | 439 | | 16 | 4 % |
| Consolidating Adjustments | | (175) | (153) | | (22) | |
| Consolidated Operating Profit | \$ | 3,799 | \$ 3,603 | \$ | 196 | 5 % |

Corporate Items and Eliminations included corporate-level expenses, timing differences (as some expenses are reported in segment profit on a cash basis), methodology differences between segment and consolidated external reporting (the company values segment inventories and cost of sales using a current cost methodology), certain restructuring costs and inter-segment eliminations.

Other Profit/Loss and Tax Items

- Interest expense excluding Financial Products for the six months ended June 30, 2022, was \$217 million, compared with \$262 million for the six months ended June 30, 2021. The decrease was due to lower average debt outstanding during the six months ended June 30, 2022, compared with the six months ended June 30, 2021.
- Other income (expense) for the six months ended June 30, 2022, was income of \$513 million, about flat compared with income of \$526 million for the six months June 30, 2021. Favorable impacts from foreign currency exchange were offset by unrealized losses on marketable securities and lower pension and OPEB income.
- The provision for income taxes for the six months ended June 30, 2022, reflected an estimated annual tax rate of 23.5 percent, compared with 26 percent for the six months ended June 30, 2021, excluding the discrete items discussed below. The comparative tax rate for full-year 2021 was approximately 23 percent.

In the six months ended June 30, 2022, the company recorded discrete tax benefits of \$49 million for a prior year tax adjustment due to a change in estimate. In addition, the company recorded a discrete tax benefit of \$18 million for the settlement of stock-based compensation awards with associated tax deductions in excess of cumulative U.S. GAAP compensation expense, compared with a \$60 million benefit for the six months ended June 30, 2021.

Construction Industries

Construction Industries' total sales were \$12.148 billion for the six months ended June 30, 2022, an increase of \$1.033 billion, or 9 percent, compared with \$11.115 billion for the six months ended June 30, 2021. The increase was due to favorable price realization and higher sales volume, partially offset by unfavorable currency impacts related to the euro, Japanese yen and Australian dollar. The increase in sales volume was driven by the impact from changes in dealer inventories and higher sales of aftermarket parts, partially offset by lower sales of equipment to end users. Dealers increased inventories more during the six months ended June 30, 2022, than during the six months ended June 30, 2021.

- In North America, sales increased due to favorable price realization, the impact from changes in dealer inventories and higher sales of equipment to end users and aftermarket parts. Dealers decreased inventories during the six months ended June 30, 2021, compared with remaining about flat during the six months ended June 30, 2022.
- Sales increased in Latin America primarily due to higher sales of equipment to end users and favorable price realization.
- In EAME, sales increased due to favorable price realization and higher sales of equipment to end users, partially offset by unfavorable currency impacts related to the euro and the impacts from changes in dealer inventories. Dealers increased inventories more during the six months ended June 30, 2021, than during the six months ended June 30, 2022.
- Sales decreased in Asia/Pacific due to lower sales of equipment to end users and unfavorable currency impacts related to the Japanese yen and Australian dollar, partially offset by favorable price realization, higher sales of aftermarket parts and the impact from changes in dealer inventories. Dealers increased inventories more during the six months ended June 30, 2022, than during the six months ended June 30, 2021.

Construction Industries' profit was \$2.046 billion for the six months ended June 30, 2022, about flat compared with \$2.071 billion for the six months ended June 30, 2021. Unfavorable manufacturing costs were offset by favorable price realization. Unfavorable manufacturing costs largely reflected higher material and freight costs.

Construction Industries' profit as a percent of total sales was 16.8 percent for the six months ended June 30, 2022, compared with 18.6 percent for the six months ended June 30, 2021.

Resource Industries

Resource Industries' total sales were \$5.791 billion for the six months ended June 30, 2022, an increase of \$1.066 billion, or 23 percent, compared with \$4.725 billion for the six months ended June 30, 2021. The increase was due to higher sales volume and favorable price realization. The increase in sales volume was driven by higher sales of aftermarket parts, the impact from changes in dealer inventories and higher sales of equipment to end users. Dealers increased inventories more during the six months ended June 30, 2022, than during the six months ended June 30, 2021.

Resource Industries' profit was \$716 million for the six months ended June 30, 2022, an increase of \$55 million, or 8 percent, compared with \$661 million for the six months ended June 30, 2021. Unfavorable manufacturing costs were more than offset by favorable price realization and higher sales volume. Unfavorable manufacturing costs largely reflected higher material and freight costs.

Resource Industries' profit as a percent of total sales was 12.4 percent for the six months ended June 30, 2022, compared with 14.0 percent for the six months ended June 30, 2021.

Energy & Transportation

| Sales by Application | | | | |
|-----------------------|----------------------------------|-------------------------------------|----------------|-------------|
| (Millions of dollars) | Six Months Ended Jun 30, 2022 | e Six Months Ended June 30, 2021 | e \$ Change | % Change |
| Oil and Gas | \$ 2,180 | 0 \$ 2,052 | \$ 128 | 6 % |
| Power Generation | 2,198 | 8 2,015 | 183 | 9 % |
| Industrial | 2,13 | 7 1,712 | 425 | 25 % |
| Transportation | 2,15 | 7 1,999 | 158 | 8 % |
| External Sales | 8,672 | 7,778 | 894 | 11 % |
| Inter-Segment | 2,07 | 1,704 | 367 | 22 % |
| Total Sales | \$ 10,74 | 3 \$ 9,482 | \$ 1,261 | 13 % |

Energy & Transportation's total sales were \$10.743 billion for the six months ended June 30, 2022, an increase of \$1.261 billion, or 13 percent, compared with \$9.482 billion for the six months ended June 30, 2021. Sales increased across all applications and inter-segment sales.

- Oil and Gas Sales increased due to higher sales of reciprocating engine aftermarket parts and engines used in well servicing and gas compression applications, primarily in North America, partially offset by lower sales for turbines and turbine-related services.
- Power Generation Sales increased due to higher sales volume in small reciprocating engine applications.
- Industrial Sales were up due to higher sales volumes across all regions.
- Transportation Sales increased primarily in reciprocating engine aftermarket parts and rail services.

Energy & Transportation's profit was \$1.197 billion for the six months ended June 30, 2022, a decrease of \$216 million, or 15 percent, compared with \$1.413 billion for the six months ended June 30, 2021. The decrease was due to unfavorable manufacturing costs and higher SG&A/R&D expenses, partially offset by favorable price realization and higher sales volume. Unfavorable manufacturing costs largely reflected higher freight and material costs. The increase in SG&A/R&D expenses was primarily driven by investments aligned with strategic initiatives and higher short-term incentive compensation expense.

Energy & Transportation's profit as a percent of total sales was 11.1 percent for the six months ended June 30, 2022, compared with 14.9 percent for the six months ended June 30, 2021.

Financial Products Segment

Financial Products' segment revenues were \$1.581 billion for the six months ended June 30, 2022, an increase of \$46 million, or 3 percent, compared with \$1.535 billion for the six months ended June 30, 2021. The increase was primarily due to a favorable impact from returned or repossessed equipment in North America.

Financial Products' segment profit was \$455 million for the six months ended June 30, 2022, a decrease of \$32 million, or 7 percent, compared with \$487 million for the six months ended June 30, 2021. The decrease was mainly due to an unfavorable impact from equity securities in Insurance Services and a higher provision for credit losses at Cat Financial, partially offset by a favorable impact from returned or repossessed equipment.

Corporate Items and Eliminations

Expense for corporate items and eliminations was \$474 million for the six months ended June 30, 2022, a decrease of \$395 million from the six months ended June 30, 2021, primarily driven by favorable impacts of segment reporting methodology, lower expenses due to timing differences and a favorable change in fair value adjustments related to deferred compensation plans, partially offset by higher corporate costs.

RESTRUCTURING COSTS

In 2022, we expect to incur about \$600 million of restructuring costs primarily related to strategic actions to address a small number of products. We expect that prior restructuring actions will result in an incremental benefit to operating costs, primarily Cost of goods sold and SG&A expenses of about \$75 million in 2022 compared with 2021.

Additional information related to restructuring costs is included in Note 20 - "Restructuring Costs" of Part I, Item 1 "Financial Statements".

GLOSSARY OF TERMS

- 1. Adjusted Operating Profit Margin Operating profit excluding restructuring costs as a percent of sales and revenues.
- 2. Adjusted Profit Per Share Profit per share excluding restructuring costs.
- 3. All Other Segment Primarily includes activities such as: business strategy; product management and development; manufacturing and sourcing of filters and fluids, undercarriage, ground-engaging tools, fluid transfer products, precision seals, rubber sealing and connecting components primarily for Cat® products; parts distribution; integrated logistics solutions; distribution services responsible for dealer development and administration, including a wholly owned dealer in Japan; dealer portfolio management and ensuring the most efficient and effective distribution of machines, engines and parts; brand management and marketing strategy; and digital investments for new customer and dealer solutions that integrate data analytics with state-of-the-art digital technologies while transforming the buying experience.
- 4. Consolidating Adjustments Elimination of transactions between Machinery, Energy & Transportation and Financial Products.
- 5. Construction Industries A segment primarily responsible for supporting customers using machinery in infrastructure and building construction applications. Responsibilities include business strategy, product design, product management and development, manufacturing, marketing and sales and product support. The product portfolio includes asphalt pavers; backhoe loaders; compactors; cold planers; compact track and multi-terrain loaders; mini, small, medium and large track excavators; forestry machines; material handlers; motor graders; pipelayers; road reclaimers; skid steer loaders; telehandlers; small and medium track-type tractors; track-type loaders; wheel excavators; compact, small and medium wheel loaders; and related parts and work tools.
- 6. **Corporate Items and Eliminations** Includes corporate-level expenses, timing differences (as some expenses are reported in segment profit on a cash basis), methodology differences between segment and consolidated external reporting, certain restructuring costs and inter-segment eliminations.
- 7. **Currency** With respect to sales and revenues, currency represents the translation impact on sales resulting from changes in foreign currency exchange rates versus the U.S. dollar. With respect to operating profit, currency represents the net translation impact on sales and operating costs resulting from changes in foreign currency exchange rates versus the U.S. dollar. Currency only includes the impact on sales and operating profit for the Machinery, Energy & Transportation line of business; currency impacts on Financial Products revenues and operating profit are included in the Financial Products portions of the respective analyses. With respect to other income/expense, currency represents the effects of forward and option contracts entered into by the company to reduce the risk of fluctuations in exchange rates (hedging) and the net effect of changes in foreign currency exchange rates on our foreign currency assets and liabilities for consolidated results (translation).
- 8. **Dealer Inventories** Represents dealer machine and engine inventories, excluding aftermarket parts.
- 9. EAME A geographic region including Europe, Africa, the Middle East and the Commonwealth of Independent States (CIS).
- 10. **Earning Assets** Assets consisting primarily of total finance receivables net of unearned income, plus equipment on operating leases, less accumulated depreciation at Cat Financial.

- 11. Energy & Transportation A segment primarily responsible for supporting customers using reciprocating engines, turbines, diesel-electric locomotives and related services across industries serving Oil and Gas, Power Generation, Industrial and Transportation applications, including marine- and rail-related businesses. Responsibilities include business strategy, product design, product management, development and testing manufacturing, marketing and sales and product support. The product and services portfolio includes turbines, centrifugal gas compressors, and turbine-related services; reciprocating engine-powered generator sets; integrated systems and solutions used in the electric power generation industry; reciprocating engines, drivetrain and integrated systems and solutions supplied to the industrial industry as well as Cat machinery; electrified powertrain and zero-emission power sources and service solutions development; and diesel-electric locomotives and components and other rail-related products and services, including remanufacturing and leasing. Responsibilities also include the remanufacturing of Caterpillar reciprocating engines and components and remanufacturing services for other companies; and product support of on-highway vocational trucks for North America.
- 12. **Financial Products** The company defines Financial Products as our finance and insurance subsidiaries, primarily Caterpillar Financial Services Corporation (Cat Financial) and Caterpillar Insurance Holdings Inc. (Insurance Services). Financial Products' information relates to the financing to customers and dealers for the purchase and lease of Caterpillar and other equipment.
- 13. **Financial Products Segment** Provides financing alternatives to customers and dealers around the world for Caterpillar products and services, as well as financing for vehicles, power generation facilities and marine vessels that, in most cases, incorporate Caterpillar products. Financing plans include operating and finance leases, installment sale contracts, repair/rebuild financing, working capital loans and wholesale financing plans. The segment also provides insurance and risk management products and services that help customers and dealers manage their business risk. Insurance and risk management products offered include physical damage insurance, inventory protection plans, extended service coverage and maintenance plans for machines and engines, and dealer property and casualty insurance. The various forms of financing, insurance and risk management products offered to customers and dealers help support the purchase and lease of Caterpillar equipment. The segment also earns revenues from Machinery, Energy & Transportation, but the related costs are not allocated to operating segments. Financial Products' segment profit is determined on a pretax basis and includes other income/expense items
- 14. Latin America A geographic region including Central and South American countries and Mexico.
- 15. **Machinery, Energy & Transportation (ME&T)** The company defines ME&T as Caterpillar Inc. and its subsidiaries, excluding Financial Products. ME&T's information relates to the design, manufacturing and marketing of its products.
- 16. **Machinery, Energy & Transportation Other Operating (Income) Expenses** Comprised primarily of gains/losses on disposal of long-lived assets, gains/losses on divestitures and legal settlements and accruals.
- 17. **Manufacturing Costs** Manufacturing costs exclude the impacts of currency and represent the volume-adjusted change for variable costs and the absolute dollar change for period manufacturing costs. Variable manufacturing costs are defined as having a direct relationship with the volume of production. This includes material costs, direct labor and other costs that vary directly with production volume, such as freight, power to operate machines and supplies that are consumed in the manufacturing process. Period manufacturing costs support production but are defined as generally not having a direct relationship to short-term changes in volume. Examples include machinery and equipment repair, depreciation on manufacturing assets, facility support, procurement, factory scheduling, manufacturing planning and operations management.
- 18. **Mark-to-market gains/losses** Represents the net gain or loss of actual results differing from the company's assumptions and the effects of changing assumptions for our defined benefit pension and OPEB plans. These gains and losses are immediately recognized through earnings upon the annual remeasurement in the fourth quarter, or on an interim basis as triggering events warrant remeasurement.
- 19. Pension and Other Postemployment Benefits (OPEB) The company's defined-benefit pension and postretirement benefit plans.
- 20. **Price Realization** The impact of net price changes excluding currency and new product introductions. Price realization includes geographic mix of sales, which is the impact of changes in the relative weighting of sales prices between geographic regions.

- 21. **Resource Industries** A segment primarily responsible for supporting customers using machinery in mining, heavy construction and quarry and aggregates. Responsibilities include business strategy, product design, product management and development, manufacturing, marketing and sales and product support. The product portfolio includes large track-type tractors; large mining trucks; hard rock vehicles; longwall miners; electric rope shovels; draglines; hydraulic shovels; rotary drills; large wheel loaders; off-highway trucks; articulated trucks; wheel tractor scrapers; wheel dozers; landfill compactors; soil compactors; select work tools; machinery components; electronics and control systems and related parts. In addition to equipment, Resource Industries also develops and sells technology products and services to provide customers fleet management, equipment management analytics, autonomous machine capabilities, safety services and mining performance solutions. Resource Industries also manages areas that provide services to other parts of the company, including strategic procurement, lean center of excellence, integrated manufacturing, research and development for hydraulic systems, automation, electronics and software for Cat machines and engines.
- 22. **Restructuring Costs** May include costs for employee separation, long-lived asset impairments and contract terminations. These costs are included in Other operating (income) expenses except for defined-benefit plan curtailment losses and special termination benefits, which are included in Other income (expense). Restructuring costs also include other exit-related costs, which may consist of accelerated depreciation, inventory write-downs, building demolition, equipment relocation and project management costs and LIFO inventory decrement benefits from inventory liquidations at closed facilities, all of which are primarily included in Cost of goods sold.
- 23. Sales Volume With respect to sales and revenues, sales volume represents the impact of changes in the quantities sold for Machinery, Energy & Transportation as well as the incremental sales impact of new product introductions, including emissions-related product updates. With respect to operating profit, sales volume represents the impact of changes in the quantities sold for Machinery, Energy & Transportation combined with product mix as well as the net operating profit impact of new product introductions, including emissions-related product updates. Product mix represents the net operating profit impact of changes in the relative weighting of Machinery, Energy & Transportation sales with respect to total sales. The impact of sales volume on segment profit includes inter-segment sales.
- 24. **Services** Enterprise services include, but are not limited to, aftermarket parts, Financial Products revenues and other service-related revenues. Machinery, Energy & Transportation segments exclude most Financial Products revenues.

LIQUIDITY AND CAPITAL RESOURCES

Sources of funds

We generate significant capital resources from operating activities, which are the primary source of funding for our ME&T operations. Funding for these businesses is also available from commercial paper and long-term debt issuances. Financial Products' operations are funded primarily from commercial paper, term debt issuances and collections from its existing portfolio. On a consolidated basis, we had positive operating cash flow in the first six months of 2022 and ended the second quarter with \$6.01 billion of cash, a decrease of \$3.24 billion from year-end 2021. In addition, ME&T has invested in available-for-sale debt securities and bank time deposits with varying maturity dates within one year that are considered highly liquid and are available for current operations. These securities are included in Prepaid expenses and other current assets and Other assets in the Consolidated Statement of Financial Position and were \$1.64 billion at the end of June 30, 2022. We intend to maintain a strong cash and liquidity position.

Consolidated operating cash flow for the first six months of 2022 was \$2.55 billion, down \$1.50 billion compared to the same period a year ago. The decrease was primarily due to payments for short-term incentive compensation in the first quarter of 2022. In addition, there were increased working capital requirements during the first six months of 2022 compared to the same period last year. Within working capital, changes in inventory, accounts payable and accrued expenses unfavorably impacted cash flow but were partially offset by favorable changes in accounts receivable and customer advances.

Total debt as of June 30, 2022 was \$36.96 billion, a decrease of \$827 million from year-end 2021. Debt related to ME&T decreased \$83 million in the first six months of 2022 while debt related to Financial Products decreased \$740 million.

As of June 30, 2022, we had three global credit facilities with a syndicate of banks totaling \$10.50 billion (Credit Facility) available in the aggregate to both Caterpillar and Cat Financial for general liquidity purposes. Based on management's allocation decision, which can be revised from time to time, the portion of the Credit Facility available to ME&T as of June 30, 2022 was \$2.75 billion. Information on our Credit Facility is as follows:

The 364-day facility of \$3.15 billion (of which \$825 million is available to ME&T) expires on September 1, 2022.

- The three-year facility, as amended and restated in September 2021, of \$2.73 billion (of which \$715 million is available to ME&T) expires in September 2024.
- The five-year facility, as amended and restated in September 2021, of \$4.62 billion (of which \$1.21 billion is available to ME&T) expires in September 2026.

At June 30, 2022, Caterpillar's consolidated net worth was \$15.82 billion, which was above the \$9.00 billion required under the Credit Facility. The consolidated net worth is defined in the Credit Facility as the consolidated shareholders' equity including preferred stock but excluding the pension and other postretirement benefits balance within Accumulated other comprehensive income (loss).

At June 30, 2022, Cat Financial's covenant interest coverage ratio was 2.56 to 1. This was above the 1.15 to 1 minimum ratio calculated as (1) profit excluding income taxes, interest expense and net gain (loss) from interest rate derivatives to (2) interest expense calculated at the end of each calendar quarter for the rolling four quarter period then most recently ended, required by the Credit Facility.

In addition, at June 30, 2022, Cat Financial's six-month covenant leverage ratio was 7.36 to 1. This was below the maximum ratio of debt to net worth of 10 to 1, calculated (1) on a monthly basis as the average of the leverage ratios determined on the last day of each of the six preceding calendar months and (2) at each December 31, required by the Credit Facility.

In the event Caterpillar or Cat Financial does not meet one or more of their respective financial covenants under the Credit Facility in the future (and are unable to obtain a consent or waiver), the syndicate of banks may terminate the commitments allocated to the party that does not meet its covenants. Additionally, in such event, certain of Cat Financial's other lenders under other loan agreements where similar financial covenants or cross default provisions are applicable may, at their election, choose to pursue remedies under those loan agreements, including accelerating the repayment of outstanding borrowings. At June 30, 2022, there were no borrowings under the Credit Facility.

Our total credit commitments and available credit as of June 30, 2022 were:

| | | J | une 30, 2022 | |
|------------------------------------|--------------|----|--|-----------------------|
| (Millions of dollars) | Consolidated | | Machinery, Energy & Transportation | Financial Products |
| Credit lines available: | | | | |
| Global credit facilities | \$ 10,500 | \$ | 2,750 | \$ 7,750 |
| Other external | 3,280 | | 182 | 3,098 |
| Total credit lines available | 13,780 | | 2,932 | 10,848 |
| Less: Commercial paper outstanding | (4,572) | | _ | (4,572) |
| Less: Utilized credit | (620) | | _ | (620) |
| Available credit | \$ 8,588 | \$ | 2,932 | \$ 5,656 |

The other external consolidated credit lines with banks as of June 30, 2022 totaled \$3.28 billion. These committed and uncommitted credit lines, which may be eligible for renewal at various future dates or have no specified expiration date, are used primarily by our subsidiaries for local funding requirements. Caterpillar or Cat Financial may guarantee subsidiary borrowings under these lines.

We receive debt ratings from the major credit rating agencies. Moody's, Fitch and S&P maintain a "mid-A" debt rating. A downgrade of our credit ratings by any of the major credit rating agencies would result in increased borrowing costs and could make access to certain credit markets more difficult. In the event economic conditions deteriorate such that access to debt markets becomes unavailable, ME&T's operations would rely on cash flow from operations, use of existing cash balances, borrowings from Cat Financial and access to our committed credit facilities. Our Financial Products' operations would rely on cash flow from its existing portfolio, existing cash balances, access to our committed credit facilities and other credit line facilities of Cat Financial, and potential borrowings from Caterpillar. In addition, we maintain a support agreement with Cat Financial, which requires Caterpillar to remain the sole owner of Cat Financial and may, under certain circumstances, require Caterpillar to make payments to Cat Financial should Cat Financial fail to maintain certain financial ratios.

We facilitate voluntary supply chain finance programs (the "Programs") through participating financial institutions. The Programs are available to a wide range of suppliers and allows them the option to manage their cash flow. We are not a party to the agreements between the participating financial institutions and the suppliers in connection with the Programs. The range of payment terms we negotiate with our suppliers is consistent, irrespective of whether a supplier participates in the Programs. The amounts payable to participating financial institutions for suppliers who voluntarily participate in the Programs and included in accounts payable in the Consolidated Statement of Financial Position were \$872 million and \$822 million at June 30, 2022 and December 31, 2021, respectively. The amounts settled through the Programs and paid to participating financial institutions were \$2.6 billion and \$1.9 billion during the first six months of 2022 and 2021, respectively. We account for payments made under the Programs, the same as our other accounts payable, as a reduction to our cash flows from operations. We do not believe that changes in the availability of supply chain financing will have a significant impact on our liquidity.

Machinery, Energy & Transportation

Net cash provided by operating activities was \$1.29 billion in the first six months of 2022, compared with net cash provided of \$3.80 billion for the same period in 2021. The decrease was primarily due to payments for short-term incentive compensation in the first quarter of 2022. In addition, there were increased working capital requirements and lower profit adjusted for non-cash items during the first six months of 2022 compared to the same period last year. Within working capital, changes in inventory, accounts payable and accrued expenses unfavorably impacted cash flow but were partially offset by favorable changes in customer advances and accounts receivable.

Net cash used by investing activities in the first six months of 2022 was \$1.24 billion, compared with net cash provided of \$85 million in the first six months of 2021. The change was primarily due to decreased activity related to intercompany lending with Financial Products and increases in net investment activity. During the first six months of 2022, we had net investment activity of \$710 million which included \$1.00 billion in debt securities partially offset by net proceeds from maturing time deposits of \$300 million.

Net cash used for financing activities during the first six months of 2022 was \$3.26 billion, compared with net cash used of \$2.67 billion in the same period of 2021. The change was primarily due to higher share repurchases in the first six months of 2022 compared to the same period in 2021 partially offset by the absence of repayment of maturing debt and lower proceeds from debt issuances, which occurred in the first half of 2021.

While our short-term priorities for the use of cash may vary from time to time as business needs and conditions dictate, our long-term cash deployment strategy is focused on the following priorities. Our top priority is to maintain a strong financial position in support of a mid-A rating. Next, we intend to fund operational requirements and commitments. Then, we intend to fund priorities that profitably grow the company and return capital to shareholders through dividend growth and share repurchases. Additional information on cash deployment is as follows:

Strong financial position – Our top priority is to maintain a strong financial position in support of a mid-A rating. We track a diverse group of financial metrics that focus on liquidity, leverage, cash flow and margins which align with our cash deployment actions and the various methodologies used by the major credit rating agencies.

Operational excellence and commitments – Capital expenditures were \$594 million during the first six months of 2022, compared to \$430 million for the same period in 2021. We expect ME&T's capital expenditures in 2022 to be about \$1.5 billion. We made \$255 million of contributions to our pension and other postretirement benefit plans during the first six months of 2022. We currently anticipate full-year 2022 contributions of approximately \$357 million. In comparison, we made \$160 million of contributions to our pension and other postretirement benefit plans during the first six months of 2021.

<u>Fund strategic growth initiatives and return capital to shareholders</u> – We intend to utilize our liquidity and debt capacity to fund targeted investments that drive long-term profitable growth focused in the areas of expanded offerings and services, including acquisitions.

As part of our capital allocation strategy, ME&T free cash flow is a liquidity measure we use to determine the cash generated and available for financing activities including debt repayments, dividends and share repurchases. We define ME&T free cash flow as cash from ME&T operations excluding discretionary pension and other postretirement benefit plan contributions less capital expenditures. A goal of our capital allocation strategy is to return substantially all ME&T free cash flow to shareholders over time in the form of dividends and share repurchases, while maintaining our mid-A rating.

Our share repurchase plans are subject to the company's cash deployment priorities and are evaluated on an ongoing basis considering the financial condition of the company and the economic outlook, corporate cash flow, the company's liquidity needs, and the health and stability of global credit markets. The timing and amount of future repurchases may vary depending on market conditions and investing priorities. In July 2018, the Board of Directors approved an authorization to repurchase up to \$10.0 billion of Caterpillar common stock (the 2018 Authorization) effective January 1, 2019, with no expiration. In the first six months of 2022, we repurchased \$1.92 billion of Caterpillar common stock, with \$175 million remaining under the 2018 Authorization as of June 30, 2022. In May 2022, the Board approved a new share repurchase authorization of up to \$15 billion of Caterpillar common stock effective August 1, 2022, with no expiration. Our basic shares outstanding as of June 30, 2022 were approximately 528 million.

Each quarter, our Board of Directors reviews the company's dividend for the applicable quarter. The Board evaluates the financial condition of the company and considers the economic outlook, corporate cash flow, the company's liquidity needs, and the health and stability of global credit markets to determine whether to maintain or change the quarterly dividend. In June 2022, the Board of Directors approved an 8 percent increase in the quarterly dividend to \$1.20 per share, and we continue to expect our strong financial position to support the dividend. Dividends paid totaled \$1.19 billion in the first six months of 2022.

Financial Products

Financial Products operating cash flow was \$735 million in the first six months of 2022, compared with \$636 million for the same period a year ago. Net cash used for investing activities was \$125 million for the first six months of 2022, compared with net cash used of \$839 million for the same period in 2021. The change was primarily due to portfolio related activity. Net cash used for financing activities was \$630 million for the first six months of 2022 compared with net cash provided of \$464 million for the same period in 2021. The change was primarily due to lower portfolio funding requirements.

RECENT ACCOUNTING PRONOUNCEMENTS

For a discussion of recent accounting pronouncements, see Part I, Item 1. Note 2 - "New accounting guidance".

CRITICAL ACCOUNTING ESTIMATES

For a discussion of the company's critical accounting estimates, see Part II, Item 7. Management's Discussion and Analysis of Financial Condition and Results of Operations in our 2021 Annual Report on Form 10-K. There have been no significant changes to our critical accounting estimates since our 2021 Annual Report on Form 10-K.

OTHER MATTERS

Information related to legal proceedings appears in Note 14—Environmental and Legal Matters of Part II, Item 8 "Financial Statements and Supplementary Data."

Order Backlog

At the end of the second quarter of 2022, the dollar amount of backlog believed to be firm was approximately \$28.5 billion, about \$2.0 billion higher than the first quarter of 2022. The order backlog increase was primarily driven by Energy & Transportation. Of the total backlog at June 30, 2022, approximately \$5.3 billion was not expected to be filled in the following twelve months.

NON-GAAP FINANCIAL MEASURES

We provide the following definitions for the non-GAAP financial measures used in this report. These non-GAAP financial measures have no standardized meaning prescribed by U.S. GAAP and therefore are unlikely to be comparable to the calculation of similar measures for other companies. Management does not intend these items to be considered in isolation or as a substitute for the related GAAP measures.

We believe it is important to separately quantify the profit impact of one significant item in order for our results to be meaningful to our readers. This item consists of (i) restructuring costs, which were incurred to generate longer-term benefits. We do not consider this item indicative of earnings from ongoing business activities and believe the non-GAAP measure provides investors with useful perspective on underlying business results and trends and aids with assessing our period-over-period results. In addition, we provide a calculation of ME&T free cash flow as we believe it is an important measure for investors to determine the cash generation available for financing activities including debt repayments, dividends and share repurchases.

Reconciliations of adjusted results to the most directly comparable GAAP measures are as follows:

| (Dollars in millions except per share data) | | perating Profit | Operating Profit Margin | | Profit Before Taxes | | Provision enefit) for Income Taxes | Effective Tax Rate | | Profit | | ofit per Share |
|--|----|--------------------|-------------------------------|----|---------------------------|----|---|-----------------------|----|--------|----|-------------------|
| Three Months Ended June 30, 2022 - U.S. GAAP | s | 1,944 | 13.6 % | \$ | 2,096 | s | 427 | 20.4 % | s | 1,673 | s | 3.13 |
| | φ | | | Ф | ĺ | Φ | 727 | | Ф | , | \$ | |
| Restructuring costs | Ф | 28 | 0.2 % | Φ. | 28 | ф | 420 | 10.0 % | ф. | 26 | _ | 0.05 |
| Three Months Ended June 30, 2022 - Adjusted | \$ | 1,972 | 13.8 % | \$ | 2,124 | \$ | 429 | 20.2 % | \$ | 1,699 | \$ | 3.18 |
| Three Months Ended June 30, 2021 - U.S. GAAP | \$ | 1,789 | 13.9 % | \$ | 1,870 | \$ | 470 | 25.1 % | \$ | 1,413 | \$ | 2.56 |
| Restructuring costs | | 25 | 0.2 % | | 25 | | 3 | 15.0 % | | 22 | \$ | 0.04 |
| Three Months Ended June 30, 2021 - Adjusted | \$ | 1,814 | 14.1 % | \$ | 1,895 | \$ | 473 | 25.0 % | \$ | 1,435 | \$ | 2.60 |
| Six Months Ended June 30, 2022- U.S. GAAP | \$ | 3,799 | 13.6 % | \$ | 4,095 | \$ | 896 | 21.9 % | \$ | 3,210 | \$ | 5.99 |
| Restructuring costs | | 41 | 0.2 % | | 41 | | 4 | 10.0 % | | 37 | \$ | 0.07 |
| Six Months Ended June 30, 2022 - Adjusted | \$ | 3,840 | 13.8 % | \$ | 4,136 | \$ | 900 | 21.8 % | \$ | 3,247 | \$ | 6.06 |
| Six Months Ended June 30, 2021 - U.S. GAAP | \$ | 3,603 | 14.5 % | \$ | 3,867 | \$ | 945 | 24.4 % | \$ | 2,943 | \$ | 5.33 |
| Restructuring costs | _ | 89 | 0.4 % | _ | 89 | _ | 13 | 15.0 % | _ | 76 | \$ | 0.14 |
| Six Months Ended June 30, 2021 - Adjusted | \$ | 3,692 | 14.9 % | \$ | 3,956 | \$ | 958 | 24.2 % | \$ | 3,019 | \$ | 5.47 |

Reconciliations of ME&T free cash flow to the most directly comparable GAAP measure, net cash provided by operating activities are as follows:

| (Millions of dollars) | | Six Months E | nded Ji | une 30 |
|---|------------------------------|--------------|---------|--------|
| | | 2022 | | 2021 |
| ME&T net cash provided by operating activities ¹ | \$ | 1,289 | \$ | 3,799 |
| ME&T capital expenditures | | (594) | | (430) |
| ME&T free cash flow | \$ | 695 | \$ | 3,369 |
| See reconciliation of ME&T net cash provided by operating activities to consolidated net cash provided by operating | activities on pages 72 - 73. | | | |

Supplemental Consolidating Data

We are providing supplemental consolidating data for the purpose of additional analysis. The data has been grouped as follows:

Consolidated - Caterpillar Inc. and its subsidiaries.

Machinery, Energy & Transportation – We define ME&T as it is presented in the supplemental data as Caterpillar Inc. and its subsidiaries, excluding Financial Products. ME&T's information relates to the design, manufacturing and marketing of our products.

Financial Products – We define Financial Products as it is presented in the supplemental data as our finance and insurance subsidiaries, primarily Caterpillar Financial Services Corporation (Cat Financial) and Caterpillar Insurance Holdings Inc. (Insurance Services). Financial Products' information relates to the financing to customers and dealers for the purchase and lease of Caterpillar and other equipment.

Consolidating Adjustments - Eliminations of transactions between ME&T and Financial Products.

The nature of the ME&T and Financial Products businesses is different, especially with regard to the financial position and cash flow items. Caterpillar management utilizes this presentation internally to highlight these differences. We believe this presentation will assist readers in understanding our business.

Pages 66 to 73 reconcile ME&T and Financial Products to Caterpillar Inc. consolidated financial information. Certain amounts for prior periods have been reclassified to conform to the current period presentation.

Caterpillar Inc. Supplemental Data for Results of Operations For the Three Months Ended June 30, 2022 (Unaudited) (Millions of dollars)

| | Supplemental Consolidating Data | | | | Data | | |
|--|---------------------------------|-----------|----|--|-----------------|----|-----------------------|
| | Con | solidated | 1 | Machinery, Energy & Transportation | ancial ducts | | olidating ustments |
| Sales and revenues: | | | | | | | |
| Sales of Machinery, Energy & Transportation | \$ | 13,539 | \$ | 13,539 | \$ _ | \$ | — . |
| Revenues of Financial Products | | 708 | | _ | 828 | | $(120)^{-1}$ |
| Total sales and revenues | | 14,247 | | 13,539 | 828 | | (120) |
| Operating costs: | | | | | | | |
| Cost of goods sold | | 9,975 | | 9,978 | _ | | $(3)^{\frac{2}{2}}$ |
| Selling, general and administrative expenses | | 1,425 | | 1,261 | 167 | | $(3)^2$ |
| Research and development expenses | | 480 | | 480 | _ | | _ |
| Interest expense of Financial Products | | 120 | | _ | 120 | | |
| Other operating (income) expenses | | 303 | | 16 | 307 | | $(20)^{2}$ |
| Total operating costs | | 12,303 | | 11,735 | 594 | | (26) |
| Operating profit | | 1,944 | | 1,804 | 234 | | (94) |
| Interest expense excluding Financial Products | | 108 | | 108 | _ | | |
| Other income (expense) | | 260 | | 180 | (14) | | 94 |
| Consolidated profit before taxes | | 2,096 | | 1,876 | 220 | | _ |
| Provision (benefit) for income taxes | | 427 | | 374 | 53 | | |
| Profit of consolidated companies | | 1,669 | | 1,502 | 167 | | _ |
| Equity in profit (loss) of unconsolidated affiliated companies | | 4 | | 7 | | | (3) |
| Profit of consolidated and affiliated companies | | 1,673 | | 1,509 | 167 | | (3) |
| Less: Profit (loss) attributable to noncontrolling interests | | | | | 3 | | (3) 5 |
| Profit ⁶ | \$ | 1,673 | \$ | 1,509 | \$ 164 | \$ | |

Elimination of Financial Products' revenues earned from ME&T.

² Elimination of net expenses recorded by ME&T paid to Financial Products.

Elimination of discount recorded by ME&T on receivables sold to Financial Products and of interest earned between ME&T and Financial Products as well as dividends paid by Financial Products to ME&T.

⁴ Elimination of equity profit (loss) earned from Financial Products' subsidiaries partially owned by ME&T subsidiaries.

Elimination of noncontrolling interest profit (loss) recorded by Financial Products for subsidiaries partially owned by ME&T subsidiaries.

⁶ Profit attributable to common shareholders.

Caterpillar Inc. Supplemental Data for Results of Operations For the Six Months Ended June 30, 2022 (Unaudited) (Millions of dollars)

| | Sur | | | oplemental Consolidating Data | | | | |
|--|-----|------------|---------------------------------------|-------------------------------|------------------------------|--|--|--|
| | Со | nsolidated | Machinery, Energy & Transportation | Financial Products | Consolidating Adjustments | | | |
| Sales and revenues: | | | _ | | | | | |
| Sales of Machinery, Energy & Transportation | \$ | 26,425 | \$ 26,425 | \$ — | * * | | | |
| Revenues of Financial Products | | 1,411 | | 1,641 | (230) | | | |
| Total sales and revenues | | 27,836 | 26,425 | 1,641 | (230) | | | |
| Operating costs: | | | | | 2 | | | |
| Cost of goods sold | | 19,534 | 19,538 | _ | $(4)^{2}$ | | | |
| Selling, general and administrative expenses | | 2,771 | 2,443 | 339 | $(11)^{2}$ | | | |
| Research and development expenses | | 937 | 937 | _ | | | | |
| Interest expense of Financial Products | | 226 | _ | 226 | <u> </u> | | | |
| Other operating (income) expenses | | 569 | (12) | 621 | $(40)^{2}$ | | | |
| Total operating costs | | 24,037 | 22,906 | 1,186 | (55) | | | |
| Operating profit | | 3,799 | 3,519 | 455 | (175) | | | |
| Interest expense excluding Financial Products | | 217 | 217 | _ | <u> </u> | | | |
| Other income (expense) | | 513 | 337 | 1 | 175 ³ | | | |
| Consolidated profit before taxes | | 4,095 | 3,639 | 456 | _ | | | |
| Provision (benefit) for income taxes | | 896 | 786 | 110 | _ | | | |
| Profit of consolidated companies | | 3,199 | 2,853 | 346 | | | | |
| Equity in profit (loss) of unconsolidated affiliated companies | | 11 | 15 | | (4) | | | |
| Profit of consolidated and affiliated companies | | 3,210 | 2,868 | 346 | (4) | | | |
| Less: Profit (loss) attributable to noncontrolling interests | | | | 4 | (4) 5 | | | |
| Profit ⁶ | \$ | 3,210 | \$ 2,868 | \$ 342 | <u>\$</u> | | | |

Elimination of Financial Products' revenues earned from ME&T.

² Elimination of net expenses recorded by ME&T paid to Financial Products.

Elimination of discount recorded by ME&T on receivables sold to Financial Products and of interest earned between ME&T and Financial Products as well as dividends paid by Financial Products to ME&T.

Elimination of equity profit (loss) earned from Financial Products' subsidiaries partially owned by ME&T subsidiaries.

Elimination of noncontrolling interest profit (loss) recorded by Financial Products for subsidiaries partially owned by ME&T subsidiaries.

⁶ Profit attributable to common shareholders.

Caterpillar Inc. Supplemental Data for Results of Operations For the Three Months Ended June 30, 2021 (Unaudited) (Millions of dollars)

| | | | Supplemental Consolidating Data | | | | | | |
|--|--------------|--------|--|-----------------------|------------------------------|--|--|--|--|
| | Consolidated | | Machinery, Energy & Transportation | Financial Products | Consolidating Adjustments | | | | |
| Sales and revenues: | | | | | | | | | |
| Sales of Machinery, Energy & Transportation | \$ | 12,193 | \$ 12,193 | \$ — | \$ | | | | |
| Revenues of Financial Products | | 696 | _ | 796 | $(100)^{-1}$ | | | | |
| Total sales and revenues | | 12,889 | 12,193 | 796 | (100) | | | | |
| Operating costs: | | | | | | | | | |
| Cost of goods sold | | 8,881 | 8,884 | _ | $(3)^{\frac{2}{2}}$ | | | | |
| Selling, general and administrative expenses | | 1,364 | 1,210 | 159 | $(5)^2$ | | | | |
| Research and development expenses | | 446 | 446 | _ | _ | | | | |
| Interest expense of Financial Products | | 116 | _ | 116 | | | | | |
| Other operating (income) expenses | | 293 | _ | 307 | $(14)^{2}$ | | | | |
| Total operating costs | | 11,100 | 10,540 | 582 | (22) | | | | |
| Operating profit | | 1,789 | 1,653 | 214 | (78) | | | | |
| Interest expense excluding Financial Products | | 120 | 120 | _ | _ , | | | | |
| Other income (expense) | | 201 | 445 | 28 | (272) 3 | | | | |
| Consolidated profit before taxes | | 1,870 | 1,978 | 242 | (350) | | | | |
| Provision (benefit) for income taxes | | 470 | 415 | 55 | _ | | | | |
| Profit of consolidated companies | | 1,400 | 1,563 | 187 | (350) | | | | |
| Equity in profit (loss) of unconsolidated affiliated companies | | 14 | 17_ | | (3) | | | | |
| Profit of consolidated and affiliated companies | | 1,414 | 1,580 | 187 | (353) | | | | |
| Less: Profit (loss) attributable to noncontrolling interests | | 1 | 1 | 3 | (3) 5 | | | | |
| Profit ⁶ | \$ | 1,413 | \$ 1,579 | \$ 184 | \$ (350) | | | | |

Elimination of Financial Products' revenues earned from ME&T.

² Elimination of net expenses recorded by ME&T paid to Financial Products.

Elimination of discount recorded by ME&T on receivables sold to Financial Products and of interest earned between ME&T and Financial Products as well as dividends paid by Financial Products to ME&T.

⁴ Elimination of equity profit (loss) earned from Financial Products' subsidiaries partially owned by ME&T subsidiaries.

Elimination of noncontrolling interest profit (loss) recorded by Financial Products for subsidiaries partially owned by ME&T subsidiaries.

⁶ Profit attributable to common shareholders.

Caterpillar Inc. Supplemental Data for Results of Operations For the Six Months Ended June 30, 2021 (Unaudited) (Millions of dollars)

| | | | Supplemental Consolidating Data | | | | | | |
|--|--------------|--------|--|-----------------------|-------|-------------|-----------------------|--|--|
| | Consolidated | | Machinery, Energy & Transportation | Financial Products | | Cons Adj | olidating ustments | | |
| Sales and revenues: | | | | | | | | | |
| Sales of Machinery, Energy & Transportation | \$ | 23,384 | \$ 23,384 | \$ | _ | \$ | _ | | |
| Revenues of Financial Products | | 1,392 | _ | | 1,584 | | $(192)^{-1}$ | | |
| Total sales and revenues | | 24,776 | 23,384 | | 1,584 | | (192) | | |
| Operating costs: | | | | | | | | | |
| Cost of goods sold | | 16,893 | 16,897 | | _ | | $(4)^{2}$ | | |
| Selling, general and administrative expenses | | 2,603 | 2,324 | | 283 | | $(4)^{2}$ | | |
| Research and development expenses | | 820 | 820 | | _ | | _ | | |
| Interest expense of Financial Products | | 241 | _ | | 241 | | _ | | |
| Other operating (income) expenses | | 616 | 26 | | 621 | | $(31)^2$ | | |
| Total operating costs | | 21,173 | 20,067 | | 1,145 | | (39) | | |
| Operating profit | | 3,603 | 3,317 | | 439 | | (153) | | |
| Interest expense excluding Financial Products | | 262 | 262 | | _ | | _ | | |
| Other income (expense) | | 526 | 676 | | 47 | | (197) 3 | | |
| Consolidated profit before taxes | | 3,867 | 3,731 | | 486 | | (350) | | |
| Provision (benefit) for income taxes | | 945 | 827 | | 118 | | _ | | |
| Profit of consolidated companies | | 2,922 | 2,904 | | 368 | | (350) | | |
| Equity in profit (loss) of unconsolidated affiliated companies | | 23 | 29 | | | | (6) 4 | | |
| Profit of consolidated and affiliated companies | | 2,945 | 2,933 | | 368 | | (356) | | |
| Less: Profit (loss) attributable to noncontrolling interests | | 2 | 2 | | 6 | | (6) 5 | | |
| Profit ⁶ | \$ | 2,943 | \$ 2,931 | \$ | 362 | \$ | (350) | | |

Elimination of Financial Products' revenues earned from ME&T.

² Elimination of net expenses recorded by ME&T paid to Financial Products.

Elimination of discount recorded by ME&T on receivables sold to Financial Products and of interest earned between ME&T and Financial Products as well as dividends paid by Financial Products to ME&T.

⁴ Elimination of equity profit (loss) earned from Financial Products' subsidiaries partially owned by ME&T subsidiaries.

⁵ Elimination of noncontrolling interest profit (loss) recorded by Financial Products for subsidiaries partially owned by ME&T subsidiaries.

⁶ Profit attributable to common shareholders.

Caterpillar Inc. Supplemental Data for Financial Position At June 30, 2022 (Unaudited) (Millions of dollars)

Supplemental Consolidating Data Machinery, Consolidating Adjustments Energy & Transportation Financial Products Consolidated Assets Current assets: 801 Cash and cash equivalents \$ 6,014 \$ 5 213 \$ \$ Receivables - trade and other 8,393 3,422 541 4,430 Receivables - finance 8,922 13,499 (4,577)Prepaid expenses and other current assets 2,772 2,706 320 (254)15,881 15,881 Inventories 41,982 27,222 (401) Total current assets 15,161 Property, plant and equipment - net 11,744 7,852 3,892 475 1,2 Long-term receivables - trade and other 1,197 324 398 Long-term receivables - finance 12,372 12,877 (505)Noncurrent deferred and refundable income taxes 2,121 2.644 109 (632)Intangible assets 889 889 Goodwill 6,195 6,195 Other assets 4,607 3,801 2,005 (1,199)Total assets 81,107 48,927 34,442 (2,262)Liabilities Current liabilities: 5,002 \$ \$ 5,002 Short-term borrowings \$ 8,092 8,008 231 (147)Accounts payable 3,782 3,398 384 Accrued expenses Accrued wages, salaries and employee benefits 1,772 1,737 35 Customer advances 1,608 1,608 633 633 Dividends payable (277) 4,7 2,333 1,865 Other current liabilities 745 Long-term debt due within one year 5,741 124 5,617 Total current liabilities 28,963 17,373 12,014 (424) Long-term debt due after one year 26,219 9,619 16,630 (30)Liability for postemployment benefits 5,160 5,160 (690)⁴ Other liabilities 5,006 4,179 1,517 (1,144) **Total liabilities** 65,348 36,331 30,161 Commitments and contingencies Shareholders' equity (919)Common stock 6,464 6,464 919 Treasury stock (29,501)(29,501)41,263 37,029 4,223 11 Profit employed in the business Accumulated other comprehensive income (loss) (2,499)(1,430)(1,069)Noncontrolling interests 32 34 208 (210)Total shareholders' equity 15,759 12,596 4,281 (1,118)

Total liabilities and shareholders' equity

81,107

48,927

34,442

(2,262)

Elimination of receivables between ME&T and Financial Products.

Reclassification of ME&T's trade receivables purchased by Financial Products and Financial Products' wholesale inventory receivables.

³ Elimination of ME&T's insurance premiums that are prepaid to Financial Products.

⁴ Reclassification reflecting required netting of deferred tax assets/liabilities by taxing jurisdiction

⁵ Elimination of other intercompany assets between ME&T and Financial Products.

⁶ Elimination of payables between ME&T and Financial Products.

Elimination of prepaid insurance in Financial Products' other liabilities.

⁸ Elimination of debt between ME&T and Financial Products.

⁹ Eliminations associated with ME&T's investments in Financial Products' subsidiaries.

Caterpillar Inc. **Supplemental Data for Financial Position At December 31, 2021** (Unaudited) (Millions of dollars)

| | | Supplemental Consolidating Data | | | | | |
|---|----|---------------------------------|--|-----|-----------------------|----|------------------------|
| | | Consolidated | Machinery, Energy & Transportation | | Financial Products | | solidating ustments |
| Assets | | | | | | | |
| Current assets: | | | | | | | |
| Cash and cash equivalents | \$ | 9,254 | \$ 8,428 | \$ | 826 | \$ | |
| Receivables - trade and other | | 8,477 | 3,279 | | 435 | | 4,763 |
| Receivables – finance | | 8,898 | _ | | 13,828 | | (4,930) 2 |
| Prepaid expenses and other current assets | | 2,788 | 2,567 | | 358 | | $(137)^{3}$ |
| Inventories | | 14,038 | 14,038 | | _ | | _ |
| Total current assets | _ | 43,455 | 28,312 | | 15,447 | | (304) |
| Property, plant and equipment – net | | 12,090 | 8,172 | | 3,918 | | |
| Long-term receivables – trade and other | | 1,204 | 375 | | 204 | | 625 1,2 |
| Long-term receivables – finance | | 12,707 | _ | | 13,358 | | (651) 2 |
| Noncurrent deferred and refundable income taxes | | 1,840 | 2,396 | | 105 | | (661) |
| Intangible assets | | 1,042 | 1,042 | | _ | | _ |
| Goodwill | | 6,324 | 6,324 | | _ | | _ |
| Other assets | | 4,131 | 3,388 | | 1,952 | | $(1,209)^5$ |
| Total assets | \$ | 82,793 | \$ 50,009 | \$ | 34,984 | \$ | (2,200) |
| Liabilities | | | | | | | |
| Current liabilities: | | | | | | | |
| Short-term borrowings | \$ | 5,404 | \$ 9 | \$ | 5,395 | \$ | _ |
| Accounts payable | | 8,154 | 8,079 | | 242 | | (167) 6 |
| Accrued expenses | | 3,757 | 3,385 | | 372 | | ` |
| Accrued wages, salaries and employee benefits | | 2,242 | 2,186 | | 56 | | |
| Customer advances | | 1,087 | 1,086 | | 1 | | |
| Dividends payable | | 595 | 595 | | 1 | | |
| Other current liabilities | | 2,256 | 1,773 | | 642 | | (159) 4,7 |
| Long-term debt due within one year | | 6,352 | 45 | | 6,307 | | (137) |
| Total current liabilities | _ | 29,847 | 17,158 | . — | 13,015 | | (326) |
| Long-term debt due after one year | | 26,033 | 9,772 | | 16,287 | | (26) 8 |
| Liability for postemployment benefits | | 5,592 | 5,592 | | ´ — | | _ |
| Other liabilities | | 4,805 | 4,106 | | 1,425 | | (726) 4 |
| Total liabilities | _ | 66,277 | 36,628 | | 30,727 | | (1,078) |
| Commitments and contingencies | _ | | | | | | |
| Shareholders' equity | | | | | | | |
| Common stock | | 6,398 | 6,398 | | 919 | | (919) 9 |
| Treasury stock | | (27,643) | (27,643) | | _ | | _ |
| Profit employed in the business | | 39,282 | 35,390 | | 3,881 | | 11 9 |
| Accumulated other comprehensive income (loss) | | (1,553) | (799) | | (754) | | _ |
| Noncontrolling interests | | 32 | 35 | | 211 | | (214) 9 |
| Total shareholders' equity | _ | 16,516 | 13,381 | | 4,257 | | (1,122) |
| Total liabilities and shareholders' equity | \$ | | \$ 50,009 | \$ | 34,984 | \$ | (2,200) |

¹ Elimination of receivables between ME&T and Financial Products.

Elimination of receivables between ME&T and Financial Products.

Reclassification of ME&T's trade receivables purchased by Financial Products and Financial Products' wholesale inventory receivables.

Elimination of ME&T's insurance premiums that are prepaid to Financial Products.

Reclassification reflecting required netting of deferred tax assets/liabilities by taxing jurisdiction.

Elimination of other intercompany assets between ME&T and Financial Products.

Elimination of prepaid insurance in Financial Products' other liabilities.

Elimination of debt between ME&T and Financial Products.

Eliminations associated with ME&T's investments in Financial Products' subsidiaries.

Caterpillar Inc. Supplemental Data for Cash Flow For the Six Months Ended June 30, 2022 (Unaudited) (Millions of dollars)

| Residence of the properties of t | | | | Supplemental Consolidating Data | | | |
|--|--|----|------------|---------------------------------|---------|--------------------|--|
| Profit of consolidated and affiliated companies 3 3,0 10 1,0 | | Со | nsolidated | Energy & | | | |
| Adjustments for non-seath items: Depreciation and amountization 1,110 715 305 72 Provision (benefit) for deferred income taxes 1,283 3,232 3,333 | | | | | | | |
| Propiciation and amortization | * | \$ | 3,210 | \$ 2,868 | \$ 346 | \$ (4) 1 | |
| Provision therefil for deferred iacome taxes (38) (23) (51) — Poth Poth Poth (48) (80) 16 of 20 Changes in assets and liabilities, net of acquisitions and divestitures: 283 (32) 12 303 23 Inventiones (2,003) (2,003) (2,003) 11 20 2 Accruated sugardian and employee benefits (445) (428) (17) — C Accrued wages, salaries and employee benefits (445) (428) (17) — C Customer advances 586 (44) (25) 155 s² Other lanibilities, net 626 (48) (26) 149 Other lanibilities, net 626 (48) (28) 140 1418/19 Tother lanibilities, net 626 (48) (41) (25) 155 s² Other lanibilities, net 686 (44) (25) 152 s² Other lanibilities, net 686 (44) (25) 152 s² Other lanibilities, net 686 (48) (38) (38 | - | | | | | | |
| Other 49 (54) (93) 198 of 20 Changes in assets and liabilities, net of acquisitions and divestitures: 283 3(2) 12 303 30 Inventories (2,002) (2,003) — — Accounts payable (36) (38) 9 9 — Accrued expenses (80) (89) 9 — — Accrued expenses (80) (49) (10) — Case and expenses (80) (40) (10) — Case and expenses (80) (89) 9 — — Accrued wages, salaries and employee benefits (81) (42) (12) — <td>*</td> <td></td> <td>,</td> <td></td> <td></td> <td>_</td> | * | | , | | | _ | |
| Receivables trade and other | | | | ` , | | | |
| Receivables – trade and other 283 (32) 12 303 21 Inventories (2,003) (2,003) (2,003) (2,003) 11 20 2 Accound expenses (80) (89) 9 9 — Accrued expenses (80) (48) (17) — Accrued expenses (80) (48) (10) — Caction (80) (48) (41) (25) 155 2 Other liabilities – net (80) (128) 735 522 2 15 15 2 2 2 15 5 2 2 2 15 5 2 2 2 2 2 2 2 2 2 2 2 2 2 2 <td></td> <td></td> <td>49</td> <td>(54)</td> <td>(93)</td> <td>196 2</td> | | | 49 | (54) | (93) | 196 2 | |
| Inventories | , , | | | | | | |
| Accounts payable 427 396 11 20° Accorated expenses (80) (89) 9 — Accorated expenses (80) (89) 9 — Accorated expenses (80) (485) (17) — Customer advances 514 515 (10) — Other asses—net 86 (44) (25) 155° Other liabilities—net (322) (323) 149 (1888) Net cash provided by (used for) operating activities 2,546 1,289 735 522 Cash flow from investing activities 2,546 (588) (581) (68) 62 62 62 52 52 Capital expenditures – excluding equipment leased to others (586) (583) (58) 62 33 62 2 <td></td> <td></td> <td>283</td> <td>(32)</td> <td>12</td> <td>303 2,3</td> | | | 283 | (32) | 12 | 303 2,3 | |
| Accrued expenses (80) (89) 9 — Accrued wages, salaries and employee benefits (414) (428) (17) — Customer advances 514 515 (1) — Other lastifities—net (322) (323) (329) 1329 735 522 Other lastifities—net (322) (323) 149 (188) (18) | Inventories | | (2,003) | (2,003) | _ | _ | |
| Accrued wages, salaries and employee benefits 4445 428 177 ———————————————————————————————————— | Accounts payable | | 427 | 396 | 11 | 20 2 | |
| Customer advances | Accrued expenses | | (80) | (89) | 9 | _ | |
| Other assets – net 86 (44) (25) 155 ° 2 Other labilities – net (322) (323) (324) (188) Net cash provided by (used for operating activities 2,56 (288) (328) 735 522 Cash flow from investing activities 3 5 522 Cash flow from investing activities 3 6 2 Cash flow from investing activities 6(586) (583) (5) 2 2 Expenditures—excluding equipment leased to others (688) (11) (683) 6 2 Proceeds from disposals of leased assets and property, plant and equipment 468 43 433 (8)2 Additions to finance receivables 6,519 — (7,175 470 4 <t< td=""><td>Accrued wages, salaries and employee benefits</td><td></td><td>(445)</td><td>(428)</td><td>(17)</td><td>_</td></t<> | Accrued wages, salaries and employee benefits | | (445) | (428) | (17) | _ | |
| Other liabilities – net (322) (323) 149 (148) Net cash provided by (used for) operating activities 2,546 1,289 735 522 Cash flow from investing activities: 8 8 (188) (5) 2 Capital expenditures – excluding equipment leased to others (688) (111) (683) 6 Expenditures for equipment leased to others (688) (111) (683) (8) Proceeds from disposals of leased assets and property, plant and equipment 468 43 433 (8) Proceeds from disposals of leased assets and property, plant and equipment in finance receivables 6,519 — (7,175) 447 Additions to finance receivables 6,519 — 6,896 (377) 5 Net intercompany purchased receivables 21 — 615 (615) 6 Proceeds from sale of finance receivables 21 — 1 — — 6 6 6 6 6 6 6 6 6 6 6 6 6 < | Customer advances | | 514 | 515 | (1) | _ | |
| Net cash provided by (used for) operating activities 2,546 1,289 735 522 Cash flow from investing activities | Other assets – net | | 86 | (44) | (25) | 155 ² | |
| Cash flow from investing activities: Capital expenditures – excluding equipment leased to others (586) (583) (5) 2 2 2 Expenditures for equipment leased to others (688) (11) (683) 6 2 2 2 Expenditures for equipment leased to others (688) (11) (683) 6 2 2 2 Expenditures for equipment leased to others (688) (11) (683) 6 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 | Other liabilities – net | | (322) | (323) | 149 | (148) 2 | |
| Capital expenditures – excluding equipment leased to others (586) (583) (5) 2 ½ Expenditures for equipment leased to others (688) (11) (683) (8) Proceeds from disposals of leased assets and property, plant and equipment 468 43 433 (8) Additions to finance receivables (6,705) — (7,175) 470 ³ Collections of finance receivables — — 6,896 (377) ³ Net intercompany purchased receivables — — — 6,896 (377) ³ Net intercompany purchased receivables — — — 6,15 (615) ³ Net intercompany purchased receivables — — — 3 (3) ° Investments and equisitions (net of cash acquired) 1 1 1 — — Investments and acquisitions (net of cash acquired) 1 1 1 — — Proceeds from sale of businesses and investments (net of cash sold) 1 1 1 — — Investments in securities (2,118) | Net cash provided by (used for) operating activities | | 2,546 | 1,289 | 735 | 522 | |
| Expenditures for equipment leased to others 6688 611 6683 6 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 | Cash flow from investing activities: | | | | | | |
| Proceeds from disposals of leased assets and property, plant and equipment 468 43 433 (8) 2 Additions to finance receivables (6,705) — (7,175) 470 3 Collections of finance receivables 6,519 — 6,896 (377) 3 Net intercompany purchased receivables — — 615 (615) 3 Proceeds from sale of finance receivables 21 — 21 — Net intercompany borrowings — — 3 (3) 4 Investments and acquisitions (net of cash acquired) (36) (36) — — Investments and acquisitions (net of cash sold) 1 1 1 — — Proceeds from sale of businesses and investments (net of cash sold) 1 1 1 — — Proceeds from sale of securities (2,118) (1,724) (394) — Investments in securities (2,118) (1,724) (394) — Other — net 32 58 (26) — Net cash provided by (used for) innacting activities< | Capital expenditures – excluding equipment leased to others | | (586) | (583) | (5) | 2 2 | |
| Additions to finance receivables (6,705) — (7,175) 470 3 Collections of finance receivables 6,519 — 6,896 (377) 3 Net intercompany purchased receivables — — 615 (615) 3 Proceeds from sale of finance receivables 21 — 21 — Net intercompany borrowings — — 3 (3) (3) Investments and acquisitions (net of cash acquired) (36) (36) — — — Proceeds from sale of businesses and investments (net of cash sold) 1 1 1 — — Proceeds from sale of businesses and investments (net of cash sold) 1 1 1 — — Proceeds from sale of businesses and investments (net of cash sold) 1 1 1 — — Investments in securities (1,240) 1,014 190 — — Other – net 32 58 (26) — — Net cash provided by (used for) investing activities (1,888) | Expenditures for equipment leased to others | | (688) | (11) | (683) | 6 2 | |
| Collections of finance receivables 6,519 — 6,896 (377) ³ Net intercompany purchased receivables — — 615 (615) ³ Proceeds from sale of finance receivables 21 — 21 — 21 — 33 (3) ³ Net intercompany borrowings — — 3 (3) ³ — — — 3 (3) ³ — — — 3 (3) ³ — — — 3 (3) ³ — <t< td=""><td>Proceeds from disposals of leased assets and property, plant and equipment</td><td></td><td>468</td><td>43</td><td>433</td><td>(8) ²</td></t<> | Proceeds from disposals of leased assets and property, plant and equipment | | 468 | 43 | 433 | (8) ² | |
| Net intercompany purchased receivables — — 615 (615)³ Proceeds from sale of finance receivables 21 — 21 — Net intercompany borrowings — — 33 (3)⁴ Investments and acquisitions (net of eash acquired) (36) (36) . — — Proceeds from sale of businesses and investments (net of cash sold) 1 1 — — Proceeds from sale of securities 1,204 1,014 190 — Investments in securities (2,118) (1,724) (394) — Investments in securities 32 58 (26) — Net cash provided by (used for) investing activities (1,888) (1,238) (125) (525) Vest cash frow financing activities (1,187) (1,187) — — Common stock issued, including treasury shares reissued 4 4 — — Common shares repurchased (1,24) (1,924) — — Net intercompany borrowings — (3) < | Additions to finance receivables | | (6,705) | _ | (7,175) | | |
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| Proceeds from sale of businesses and investments (net of cash sold) 1 1 1 — — Proceeds from sale of securities 1,204 1,014 190 — Investments in securities (2,118) (1,724) (394) — Other — net 32 58 (26) — Net cash provided by (used for) investing activities (1,888) (1,238) (125) (525) Cash flow from financing activities — — — — — Common stock issued, including treasury shares reissued (1,187) (1,187) — — — Common stace issued, including treasury shares reissued 4 4 — — — Common stace issued, including treasury shares reissued (1,924) (1,924) — — — Net intercompany borrowings — (3) — </td <td>Net intercompany borrowings</td> <td></td> <td>_</td> <td>_</td> <td>3</td> <td>(3) 4</td> | Net intercompany borrowings | | _ | _ | 3 | (3) 4 | |
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| Investments in securities | Proceeds from sale of businesses and investments (net of cash sold) | | 1 | 1 | _ | _ | |
| Other – net 32 58 (26) — Net cash provided by (used for) investing activities (1,888) (1,238) (125) (525) Cash flow from financing activities: Dividends paid (1,187) (1,187) — — Common stock issued, including treasury shares reissued 4 4 — — Common shares repurchased (1,924) (1,924) — — Net intercompany borrowings — (3) — — Proceeds from debt issued (original maturities greater than three months) 4,015 — 4,015 — Payments on debt (original maturities greater than three months) (4,246) (13) (4,233) — Short-term borrowings – net (original maturities three months or less) (553) (141) (412) — Net cash provided by (used for) financing activities (3,891) (3,264) (630) 3 Effect of exchange rate changes on cash (7) — (7) — Increase (decrease) in cash, cash equivalents and restricted cash at beginning of period | Proceeds from sale of securities | | 1,204 | 1,014 | 190 | _ | |
| Net cash provided by (used for) investing activities (1,888) (1,238) (125) (525) Cash flow from financing activities: Use of the provided by from financing activities: Dividends paid (1,187) (1,187) — — Common stock issued, including treasury shares reissued 4 4 — — Common shares repurchased (1,924) (1,924) — — Net intercompany borrowings — (3) — — Proceeds from debt issued (original maturities greater than three months) 4,015 — 4,015 — Payments on debt (original maturities greater than three months) (4,246) (13) (4,233) — Short-term borrowings – net (original maturities three months or less) (553) (141) (412) — Net cash provided by (used for) financing activities (3,891) (3,264) (630) 3 Effect of exchange rate changes on cash (7) — (7) — Increase (decrease) in cash, cash equivalents and restricted cash (3,240) (3,213) (27) — <td>Investments in securities</td> <td></td> <td>(2,118)</td> <td>(1,724)</td> <td>(394)</td> <td>_</td> | Investments in securities | | (2,118) | (1,724) | (394) | _ | |
| Cash flow from financing activities: Dividends paid (1,187) (1,187) — — Common stock issued, including treasury shares reissued 4 4 4 — — Common shares repurchased (1,924) (1,924) — — Net intercompany borrowings — (3) — 3 4 Proceeds from debt issued (original maturities greater than three months) 4,015 — 4,015 — Payments on debt (original maturities greater than three months) (4,246) (13) (4,233) — Short-term borrowings — net (original maturities three months or less) (553) (141) (412) — Net cash provided by (used for) financing activities (3,891) (3,264) (630) 3 Effect of exchange rate changes on cash (7) — (7) — Increase (decrease) in cash, cash equivalents and restricted cash (3,240) (3,213) (27) — Cash, cash equivalents and restricted cash at beginning of period 9,263 8,433 830 — | Other – net | | 32 | 58 | (26) | _ | |
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| Common stock issued, including treasury shares reissued (1,924) (1,92 | Cash flow from financing activities: | | | | | | |
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| Proceeds from debt issued (original maturities greater than three months) Payments on debt (original maturities greater than three months) Short-term borrowings – net (original maturities three months or less) Net cash provided by (used for) financing activities (3,891) Effect of exchange rate changes on cash (7) Increase (decrease) in cash, cash equivalents and restricted cash (3,240) Cash, cash equivalents and restricted cash at beginning of period 4,015 — 4,015 — 4,015 — (4,246) (13) (4,233) — (411) (412) — (630) 3 Effect of exchange rate changes on cash (7) — (7) — (7) — Cash, cash equivalents and restricted cash at beginning of period | Common shares repurchased | | (1,924) | (1,924) | _ | _ | |
| Payments on debt (original maturities greater than three months) (4,246) (13) (4,233) — Short-term borrowings – net (original maturities three months or less) (553) (141) (412) — Net cash provided by (used for) financing activities (3,891) (3,264) (630) 3 Effect of exchange rate changes on cash (7) — (7) — Increase (decrease) in cash, cash equivalents and restricted cash (3,240) (3,213) (27) — Cash, cash equivalents and restricted cash at beginning of period 9,263 8,433 830 — | Net intercompany borrowings | | _ | (3) | _ | 3 4 | |
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| Effect of exchange rate changes on cash (7) — (7) — Increase (decrease) in cash, cash equivalents and restricted cash (3,240) (3,213) (27) — Cash, cash equivalents and restricted cash at beginning of period 9,263 8,433 830 — | Short-term borrowings – net (original maturities three months or less) | | (553) | (141) | (412) | _ | |
| Increase (decrease) in cash, cash equivalents and restricted cash(3,240)(3,213)(27)—Cash, cash equivalents and restricted cash at beginning of period9,2638,433830— | Net cash provided by (used for) financing activities | | (3,891) | (3,264) | (630) | 3 | |
| Increase (decrease) in cash, cash equivalents and restricted cash(3,240)(3,213)(27)—Cash, cash equivalents and restricted cash at beginning of period9,2638,433830— | Effect of exchange rate changes on cash | | (7) | | (7) | _ | |
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| | • • • | | | | | _ | |
| | | \$ | | | \$ 803 | \$ | |

Elimination of equity profit earned from Financial Products' subsidiaries partially owned by ME&T subsidiaries.
 Elimination of non-cash adjustments and changes in assets and liabilities related to consolidated reporting.

³ Reclassification of Financial Products' cash flow activity from investing to operating for receivables that arose from the sale of inventory.

⁴ Elimination of net proceeds and payments to/from ME&T and Financial Products.

Caterpillar Inc. Supplemental Data for Cash Flow For the Six Months Ended June 30, 2021 (Unaudited) (Millions of dollars)

Supplemental Consolidating Data Machinery, Energy & Transportation Consolidating Adjustments Financial Consolidated Products Cash flow from operating activities: 2,933 Profit of consolidated and affiliated companies 2,945 368 $(356)^{1,5}$ Adjustments for non-cash items: 1.173 772 401 Depreciation and amortization Provision (benefit) for deferred income taxes 111 (43) 68 75 ² (20)74 (169)Changes in assets and liabilities, net of acquisitions and divestitures: $(148)^{2,3}$ Receivables - trade and other (343)(206)11 (1,180)1 2 Inventories (1,179)Accounts payable 893 871 2 20 2 22 93 (71)Accrued expenses 593 Accrued wages, salaries and employee benefits 618 25 49 49 Customer advances Other assets - net (47)(154)15 92. 2 Other liabilities - net (133)(157)97 $(73)^{2}$ Net cash provided by (used for) operating activities 4,046 3,799 636 (389)Cash flow from investing activities: 5 2 Capital expenditures - excluding equipment leased to others (419)(417)(7) 2 2 (681) (670)Expenditures for equipment leased to others (13)Proceeds from disposals of leased assets and property, plant and equipment 636 49 595 $(8)^{2}$ Additions to finance receivables (6,203)(6,680) 477^{-3} $(515)^3$ Collections of finance receivables 5,580 6,095 Net intercompany purchased receivables (78) 78^{-3} Proceeds from sale of finance receivables 27 27 Net intercompany borrowings 1,000 2 $(1,002)^4$ Investments and acquisitions (net of cash acquired) (398)(398)Proceeds from sale of businesses and investments (net of cash sold) 28 28 241 Proceeds from sale of securities 276 35 Investments in securities (500)(225)(275)Other - net 26 (89) (63)Net cash provided by (used for) investing activities 85 (1,717)(839)(963)Cash flow from financing activities: (1,126)(1,126)(350)350 5 Dividends paid Common stock issued, including treasury shares reissued 123 123 Common shares repurchased (251)(251)(1,000)1,002 4 Net intercompany borrowings (2) Proceeds from debt issued (original maturities greater than three months) 4.906 494 4.412 (1,902)(4,064)Payments on debt (original maturities greater than three months) (5,966)Short-term borrowings – net (original maturities three months or less) 1,460 1,466 (6) Other - net (2)(2)(856) (2,672)Net cash provided by (used for) financing activities 464 1.352 Effect of exchange rate changes on cash 3 (5) 8 1,476 269 Increase (decrease) in cash, cash equivalents and restricted cash 1 207 Cash, cash equivalents and restricted cash at beginning of period 9.366 8.822 544 Cash, cash equivalents and restricted cash at end of period 10.842 10.029 813

Elimination of equity profit earned from Financial Products' subsidiaries partially owned by ME&T subsidiaries.

² Elimination of non-cash adjustments and changes in assets and liabilities related to consolidated reporting.

Reclassification of Financial Products' cash flow activity from investing to operating for receivables that arose from the sale of inventory.

Elimination of net proceeds and payments to/from ME&T and Financial Products.

Elimination of dividend activity between Financial Products and ME&T.

Forward-looking Statements

Certain statements in this Form 10-Q relate to future events and expectations and are forward-looking statements within the meaning of the Private Securities Litigation Reform Act of 1995. Words such as "believe," "estimate," "will be," "will," "would," "expect," "anticipate," "plan," "forecast," "target," "guide," "project," "intend," "could," "should" or other similar words or expressions often identify forward-looking statements. All statements other than statements of historical fact are forward-looking statements, including, without limitation, statements regarding our outlook, projections, forecasts or trend descriptions. These statements do not guarantee future performance and speak only as of the date they are made, and we do not undertake to update our forward-looking statements.

Caterpillar's actual results may differ materially from those described or implied in our forward-looking statements based on a number of factors, including, but not limited to: (i) global and regional economic conditions and economic conditions in the industries we serve; (ii) commodity price changes, material price increases, fluctuations in demand for our products or significant shortages of material; (iii) government monetary or fiscal policies; (iv) political and economic risks, commercial instability and events beyond our control in the countries in which we operate; (v) international trade policies and their impact on demand for our products and our competitive position, including the imposition of new tariffs or changes in existing tariff rates; (vi) our ability to develop, produce and market quality products that meet our customers' needs; (vii) the impact of the highly competitive environment in which we operate on our sales and pricing; (viii) information technology security threats and computer crime; (ix) inventory management decisions and sourcing practices of our dealers and our OEM customers; (x) a failure to realize, or a delay in realizing, all of the anticipated benefits of our acquisitions, joint ventures or divestitures; (xi) union disputes or other employee relations issues; (xii) adverse effects of unexpected events; (xiii) disruptions or volatility in global financial markets limiting our sources of liquidity or the liquidity of our customers, dealers and suppliers; (xiv) failure to maintain our credit ratings and potential resulting increases to our cost of borrowing and adverse effects on our cost of funds, liquidity, competitive position and access to capital markets; (xv) our Financial Products segment's risks associated with the financial services industry; (xvi) changes in interest rates or market liquidity conditions; (xvii) an increase in delinquencies, repossessions or net losses of Cat Financial's customers; (xviii) currency fluctuations; (xix) our or Cat Financial's compliance with financial and other restrictive covenants in debt agreements; (xx) increased pension plan funding obligations; (xxi) alleged or actual violations of trade or anti-corruption laws and regulations; (xxii) additional tax expense or exposure, including the impact of U.S. tax reform; (xxiii) significant legal proceedings, claims, lawsuits or government investigations; (xxiv) new regulations or changes in financial services regulations; (xxv) compliance with environmental laws and regulations; (xxvi) the duration and geographic spread of, business disruptions caused by, and the overall global economic impact of, the COVID-19 pandemic; and (xxvii) other factors described in more detail under the section entitled "Part I - Item 1A. Risk Factors" of Caterpillar's Annual Report on Form 10-K for the fiscal year ended December 31, 2021, as such factors may be updated from time to time in Caterpillar's periodic filings with the Securities and Exchange Commission.

Item 3. Quantitative and Qualitative Disclosures About Market Risk

The information required by this Item is incorporated by reference from Note 5 – "Derivative financial instruments and risk management" included in Part I, Item 1 and Management's Discussion and Analysis included in Part I, Item 2 of this Form 10-Q.

Item 4. Controls and Procedures

Evaluation of disclosure controls and procedures

An evaluation was performed under the supervision and with the participation of the company's management, including the Chief Executive Officer (CEO) and Chief Financial Officer (CFO), of the effectiveness of the design and operation of the company's disclosure controls and procedures, as that term is defined in Rule 13a-15(e) under the Securities Exchange Act of 1934, as amended, as of the end of the period covered by this quarterly report. Based on that evaluation, the CEO and CFO concluded that the company's disclosure controls and procedures were effective as of the end of the period covered by this quarterly report.

Changes in internal control over financial reporting

During the second quarter of 2022, there has been no change in the company's internal control over financial reporting that has materially affected, or is reasonably likely to materially affect, the company's internal control over financial reporting.

PART II. OTHER INFORMATION

Item 1. Legal Proceedings

The information required by this Item is incorporated by reference from Note 14 – "Environmental and legal matters" included in Part I, Item 1 of this Form 10-Q.

Item 1A. Risk Factors

There have been no material changes to the risk factors we previously disclosed in our Annual Report on Form 10-K for the year ended December 31, 2021.

Item 2. Unregistered Sales of Equity Securities and Use of Proceeds

Issuer Purchases of Equity Securities

| Period | Total Number of Shares Purchased ^{2,3,4} | Average Price Paid per Share ^{2,3,4} | Total Number of Shares Purchased as Part of Publicly Announced Program | Approximate Dollar Value of Shares that May Yet be Purchased under the Program (in billions) ¹ |
|------------------|---|--|---|---|
| April 1-30, 2022 | 466,166 | \$ 206.40 | 466,166 | \$ 1.278 |
| May 1-31, 2022 | 3,594,000 | \$ 210.83 | 3,594,000 | \$ 0.520 |
| June 1-30, 2022 | 1,800,647 | \$ 191.70 | 1,800,647 | \$ 0.175 |
| Total | 5,860,813 | \$ 204.60 | 5,860,813 | |

¹ In July 2018, the Board approved a share repurchase authorization of up to \$10.0 billion of Caterpillar common stock effective January 1, 2019, with no expiration (the 2018 Authorization). As of June 30, 2022, \$175 million remained available under the 2018 Authorization.

Non-U.S. Employee Stock Purchase Plans

As of June 30, 2022, we had 28 employee stock purchase plans (the "EIP Plans") that are administered outside the United States for our non-U.S. employees, which had approximately 13,000 active participants in the aggregate. During the second quarter of 2022, approximately 73,000 shares of Caterpillar common stock were purchased by the EIP Plans pursuant to the terms of such plans.

² During the first quarter of 2022, we entered into an ASR with a third-party financial institution to purchase \$500 million of our common stock. In February 2022, upon payment of the \$500 million to the financial institution, we received 2.0 million shares. In April 2022, upon final settlement of the ASR, we received an additional 0.4 million shares. In total, we repurchased 2.4 million shares under this ASR at an average price per share of \$206.37.

³ During the second quarter of 2022, we entered into an ASR with a third-party financial institution to purchase \$750 million of our common stock. In May 2022, upon payment of the \$750 million to the financial institution, we received 2.8 million shares. In June 2022, upon final settlement of the ASR, we received an additional 0.8 million shares. In total, we repurchased 3.6 million shares under this ASR at an average price per share of \$207.16.

⁴ In May and June of 2022, we repurchased 0.8 million and 1.0 million shares respectively, for an aggregate of \$353 million in open market transactions at an average price per share of \$206.25 and \$193.36, respectively. In April of 2022, we repurchased a minimal number of shares in open market transactions as illustrated in the above table.

Item 6. Exhibits

| 3.1 | Bylaws of Caterpillar Inc. | (incorporated by reference to Cu | <u>irrent Report on Form 8-K dated June 14, 2022)</u> |
|-----|----------------------------|----------------------------------|---|
| | | | |

- 31.1 Certification of Chief Executive Officer of Caterpillar Inc., as required pursuant to Section 302 of the Sarbanes-Oxley Act of 2002
- 31.2 Certification of Chief Financial Officer of Caterpillar Inc., as required pursuant to Section 302 of the Sarbanes-Oxley Act of 2002
- 32 <u>Certification of Chief Executive Officer of Caterpillar Inc. and Chief Financial Officer of Caterpillar Inc., as required pursuant to Section 906 of the Sarbanes-Oxley Act of 2002</u>
- 101.INS Inline XBRL Instance Document (the instance document does not appear in the Interactive Data File because its XBRL tags are embedded within the Inline XBRL document)
- 101.SCH Inline XBRL Taxonomy Extension Schema Document
- 101.CAL Inline XBRL Taxonomy Extension Calculation Linkbase Document
- 101.DEF Inline XBRL Taxonomy Extension Definition Linkbase Document
- 101.LAB Inline XBRL Taxonomy Extension Label Linkbase Document
- 101.PRE Inline XBRL Taxonomy Extension Presentation Linkbase Document
 - 104 Cover Page Interactive File (embedded within the Inline XBRL document and included in Exhibit 101)

The agreements and other documents filed as exhibits to this report are not intended to provide factual information or other disclosure other than with respect to the terms of the agreements or other documents themselves, and you should not rely on them for that purpose. In particular, any representations and warranties made by us in these agreements or other documents were made solely within the specific context of the relevant agreement or document and may not describe the actual state of affairs as of the date they were made or at any other time.

^{*}Management contracts and compensatory plans and arrangements required to be filed as exhibits pursuant to Item 6 of this report.

SIGNATURES

Pursuant to the requirements of the Securities Exchange Act of 1934, the Registrant has duly caused this report to be signed on its behalf by the undersigned thereunto duly authorized.

| | CATERPILLAR INC. | |
|----------------|---|---|
| August 3, 2022 | /s/ D. James Umpleby III D. James Umpleby III | Chairman of the Board and Chief Executive Officer |
| August 3, 2022 | /s/ Andrew R.J. Bonfield Andrew R.J. Bonfield | Chief Financial Officer |
| August 3, 2022 | /s/ Suzette M. Long Suzette M. Long | Chief Legal Officer and General Counsel |
| August 3, 2022 | /s/ William E. Schaupp William E. Schaupp | Vice President and Chief Accounting Officer |

SECTION 302 CERTIFICATION

I, D. James Umpleby III, certify that:

- 1. I have reviewed this quarterly report on Form 10-Q of Caterpillar 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 (the registrant's fourth fiscal quarter in the case of an annual report) 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 function):
 - 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.

| August 3, 2022 | /s/ D. James Umpleby III | Chief Executive Officer |
|----------------|--------------------------|-------------------------|
| - | D. James Umpleby III | _ |

SECTION 302 CERTIFICATION

I, Andrew R.J. Bonfield, certify that:

- 1. I have reviewed this quarterly report on Form 10-Q of Caterpillar 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 (the registrant's fourth fiscal quarter in the case of an annual report) 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 function):
 - 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.

| August 3, 2022 | /s/ Andrew R.J. Bonfield | Chief Financial Officer |
|----------------|--------------------------|-------------------------|
| · | Andrew R.J. Bonfield | _ |

CERTIFICATION PURSUANT TO 18 U.S.C. SECTION 1350 AS ADOPTED PURSUANT TO SECTION 906 OF THE SARBANES-OXLEY ACT OF 2002

In connection with the quarterly report of Caterpillar Inc. (the "Company") on Form 10-Q for the period ending June 30, 2022 as filed with the Securities and Exchange Commission on the date hereof (the "Report"), the undersigned hereby certify pursuant to 18 U.S.C. Section 1350, as adopted pursuant to Section 906 of the Sarbanes-Oxley Act of 2002, that to the best of our knowledge:

| (1) | The Report fully complies with the requirements of | section 13(a) or 15(d) of the Securities | es 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. | | | | | | | |
| | August 3, 2022 | /s/ D. James Umpleby III | Chief Executive Officer | | | | | |
| | | D. James Umpleby III | | | | | | |
| | | | | | | | | |
| | August 3, 2022 | /s/ Andrew R.J. Bonfield | Chief Financial Officer | | | | | |
| | | Andrew R.J. Bonfield | | | | | | |

A signed original of this written statement required by Section 906 has been provided to Caterpillar Inc. and will be retained by Caterpillar Inc. and furnished to the Securities and Exchange Commission or its staff upon request.