



Bank of America Leveraged Finance Conference 2024

December 3, 2024



YOUR CATALYST FOR POSITIVE CHANGE™

Legal Discussion

Forward-Looking Statements

Some of the information contained in this presentation, the conference call during which this presentation is reviewed and any discussions that follow constitutes “forward-looking statements.” Forward-looking statements can be identified by words such as “anticipates,” “intends,” “plans,” “seeks,” “believes,” “estimates,” “expects,” “projects” and similar references to future periods. Forward-looking statements are based on our current expectations and assumptions regarding our business, the economy and other future conditions. Because forward-looking statements relate to the future, they are subject to inherent uncertainties, risks and changes in circumstances that are difficult to predict. Examples of forward looking statements include, but are not limited to, statements regarding our future results of operations, financial condition, liquidity, prospects, growth, strategies, capital allocation programs (including our share repurchase program), product and service offerings, expected demand trends, and 2024 financial outlook. Our actual results may differ materially from those contemplated by the forward-looking statements. We caution you, therefore, against relying on any of these forward-looking statements. They are neither statements of historical fact nor guarantees or assurances of future performance. Important factors that could cause actual results to differ materially from those in the forward-looking statements include, but are not limited to, regional, national or global political, economic, business, competitive, market and regulatory conditions, including tariffs and trade disputes, currency exchange rates, effects of inflation and other factors, including those described in the sections titled “Risk Factors” and “Management’s Discussion & Analysis of Financial Condition and Results of Operations” in our filings with the SEC, which are available on the SEC’s website at www.sec.gov. Any forward-looking statement made by us in this presentation, the conference call during which this presentation is reviewed and any discussions that follow speaks only as of the date on which it is made. Factors or events that could cause our actual results to differ may emerge from time to time, and it is not possible for us to predict all of them. We undertake no obligation to update any forward-looking statement, whether as a result of new information, future developments or otherwise, except as may be required by applicable law.

Non-GAAP Financial Measures

This presentation includes certain non-GAAP financial measures, including Adjusted EBITDA, Adjusted EBITDA Margin, Adjusted Net Income, Free Cash Flow, Adjusted Free Cash Flow, Adjusted Diluted Income per share and Net Debt Leverage Ratio, which are provided to assist in an understanding of our business and its performance. These non-GAAP financial measures should be considered only as supplemental to, and not as superior to, financial measures prepared in accordance with GAAP. Non-GAAP financial measures should be read only in conjunction with consolidated financials prepared in accordance with GAAP. Reconciliations of non-GAAP measures to the relevant GAAP measures are provided in the appendix of this presentation. In reliance upon the unreasonable efforts exemption provided under Item 10(e)(1)(i)(B) of Regulation S-K, the Company is not able to provide a reconciliation of the Company’s non-GAAP financial guidance to the corresponding GAAP measures without unreasonable effort because of the inherent difficulty in forecasting and quantifying certain amounts necessary for such a reconciliation such as certain non-cash, nonrecurring or other items that are included in net income and EBITDA as well as the related tax impacts of these items and asset dispositions / acquisitions and changes in foreign currency exchange rates that are included in cash flow, due to the uncertainty and variability of the nature and amount of these future charges and costs. Because this information is uncertain, the Company is unable to address the probable significance of the unavailable information, which could be material to future results.

Legal Discussion

Supply Share and Industry Information

Certain statistical information used in this presentation is based on independent industry publications, reports by research firms or other published independent sources. Some statistical information is also based on our good faith estimates which are derived from management's knowledge of our industry and such independent sources referred to above. Certain supply share statistics, ranking and industry information included in this presentation, including the size of certain markets and our estimated supply share position and the supply share positions of our competitors, are based on management estimates. These estimates have been derived from our management's knowledge and experience in the industry and end uses into which we sell our products, as well as information obtained from surveys, reports by research firms, our customers, distributors, suppliers trade and business organizations and other contacts in the industries into which we sell our products. We believe these data to be accurate as of the date of this presentation. However, this information may prove to be inaccurate because this information cannot always be verified with complete certainty due to the limitations on the availability and reliability of raw data, the voluntary nature of the data gathering process and other limitations and uncertainties. Unless otherwise noted, all of our supply share position and industry information presented in this presentation herein is an approximation based on management's knowledge and is based on our, or, in the case of supply share position information, excludes volume attributable to manufacturers who produce primarily for their own consumption. In addition, references to various end uses into which we sell our products are based on how we define the end uses for our products.

Zeolyst Joint Venture

Zeolyst International and Zeolyst C.V. (our 50% owned joint ventures that we refer to collectively as the "Zeolyst Joint Venture"), are accounted for as an equity method investment in accordance with GAAP. The presentation of the Zeolyst Joint Venture's sales in this presentation represents 50% of the sales of the Zeolyst Joint Venture. We do not record sales by the Zeolyst Joint Venture as revenue and such sales are not consolidated within our results of operations. However, our Adjusted EBITDA reflects our share of the earnings of the Zeolyst Joint Venture that have been recorded as equity in net income from affiliated companies in our consolidated statements of income for such periods and includes Zeolyst Joint Venture adjustments on a proportionate basis based on our 50% ownership interest. Accordingly, our Adjusted EBITDA Margins are calculated including 50% of the sales of the Zeolyst Joint Venture for the relevant periods in the denominator.

Ecovyst Business Profile & Value Proposition

An Industry-leading Provider of Specialty Catalysts and Services into Key End Uses



- Favorable long-term organic growth trends driven by end use demand and growing need for sustainable products and services
- Revenue visibility arising from customer collaborations, qualified and specified products, and long-term contracts
- Unit margin stability provided by price leverage and contractual cost pass-through mechanisms
- Attractive segment Adjusted EBITDA margins in the 30% range
- Strong Cash Generation – September 2024 YTD Adjusted Free Cash Flow¹ of \$59 million
- Leverage reduction remains a key priority– Net Debt Leverage Ratio of 3.2x at 9/30/2024

1. See Appendix for reconciliation of non-GAAP measures.

Ecovyst Reporting Segments

ECOSERVICES

\$585 Million 2023 Sales

\$200 Million 2023 Adjusted EBITDA¹

Regeneration Services

- **Regeneration services for refinery alkylation**
- Chemical spent acid regeneration

Virgin Sulfuric Acid

- Oleum (nylon production)
- High strength for **mining minerals and metals production**
- Electrolyte grades (for water treatment, semiconductors, lead acid batteries)



Chem32

- Ex-situ activation of catalysts for:
- Hydro-processing
 - **Renewable fuel production**

Treatment Services

- Hazardous and non-hazardous waste
- **Beneficial reuse of energy in waste**

Advanced Materials & Catalysts

\$106 Million 2023 Advanced Silicas Sales
\$156 Million 2023 Zeolyst Joint Venture Sales²

\$82 Million 2023 Adjusted EBITDA¹

Advanced Silicas (100% Ownership)

- HDPE and LLDPE production and supports
- Polyethylene anti-blocking agents (films)
- Chemical catalysts
- **Sustainable materials**
- Functionalized silicas



(50% Ownership)³

Applications

- Hydrocracking of traditional fuels
- **Sustainable fuel supports & catalysts**
- Emission control technologies
- **Processes for plastic recycling**
- Customized catalyst applications

1. Excludes unallocated corporate expenses of \$22 million. See appendix reconciliation of non-GAAP measures included in Appendix.
 2. Represents 50% of ownership with Shell Catalysts & Technologies

Ecoservices

Financial Highlights

2023 Sales - \$585 Million

2023 Adjusted EBITDA¹ - \$200 Million

Business Overview

Regeneration Services



Leading North American provider of sulfuric acid regeneration services

- Support U.S. customer's production of alkylate (the highest value gasoline blending component)
- Serve 6 of top 10 N.A. refineries

Virgin Sulfuric Acid



Leading North American producer of virgin sulfuric acid

- End use applications include mining, production of nylon intermediates,, and industrial applications including lead acid batteries, petrochemical processes and semiconductor production

Chem32



Leading ex-situ provider of catalyst activation services

- Activates catalysts for conventional hydroprocessing and for renewable fuels (renewable diesel and SAF)

Treatment Services



Treatment Services

- Converts hazardous and non-hazardous waste to energy
- Primarily Gulf-Coast

Demand Drivers

- Customer expansion of alkylation units
 - Growth in premium fuel demand
 - More stringent fuel regulations
 - Export demand
- Spot sales driven by other supplier constraints

- Growth in mining production (copper, borates, lithium)
- Demand growth in industrial applications
- Demand growth in petrochemical and chemical end uses

- Increasing regulations for cleaner fuels - hydroprocessing
- Increasing demand for renewable fuels
- Continued outsourcing of catalyst activation to third party providers

- Consumer spending (housing, construction, packaging, hygiene)
- Preferred option compared to other disposal methods

Advanced Materials & Catalysts

Financial Highlights

Advanced Silicas Sales - \$106 Million

Zeolyst Joint Venture Sales - \$156 Million

2023 Adjusted EBITDA^{1,2} - \$82 Million

Business Overview

Advanced Silicas

From concept to pilot to production leveraging deep Silica based material science & catalyst capability

- 40+ year legacy in Silica chemistry
 - Polyethylene catalysts & supports
 - Polyethylene antiblocks
 - Chemical catalysts
 - Sustainable catalysts
 - Functionalized silicas

Demand Drivers

2X market growth from Industrial markets:

- Polyethylene Global demand growth & capacity additions
- Technical solutions delivering share gain
- Catalysts for chemical processes

Step change growth from Emerging markets:

- Renewable processes
- Enzyme immobilization³
- Clean water³
- Carbon capture⁵

Zeolyst International (50% ownership)

From concept to pilot to production leveraging deep Zeolite based material science & catalyst capability

- 35+ year partnership with Shell
 - Hydrocracking catalysts
 - Sustainable fuel supports & catalysts
 - Emission control supports
 - Custom Zeolite supports & catalysts
 - Advanced recycling catalysts
 - Specialty & aromatic catalysts

GDP growth in Core markets:

- Hydrocracking value creation for refiners
- Emission control applications

Accelerated growth from Industrial focused custom Zeolite supports and catalysts

Step change growth from Emerging markets:

- Catalyst based Advanced Recycling³
- Emerging Sustainable Aviation Fuels⁵

Strategy for Creating Shareholder Value



Strengthen Leading Positions in Core Segments

- Maximize production capabilities and reliability via digitization, AI, and efficiency gains
- Deliver strong margins and cash generation through commercial excellence



Capture Share in Industrial Segments

- Growth through capacity expansion and debottlenecking
- Leverage technology and service advantages to capture share



Accelerate Growth in Emerging Sustainable and Low Carbon Segments

- Drive innovation through material science expertise
- Commercialize new products through deep customer relationships
- Expand capacity and technology via organic and inorganic investments



Sustain an industry-leading safe and responsible workplace



Regeneration
Hydrocracking
Treatment Services
Emissions Controls

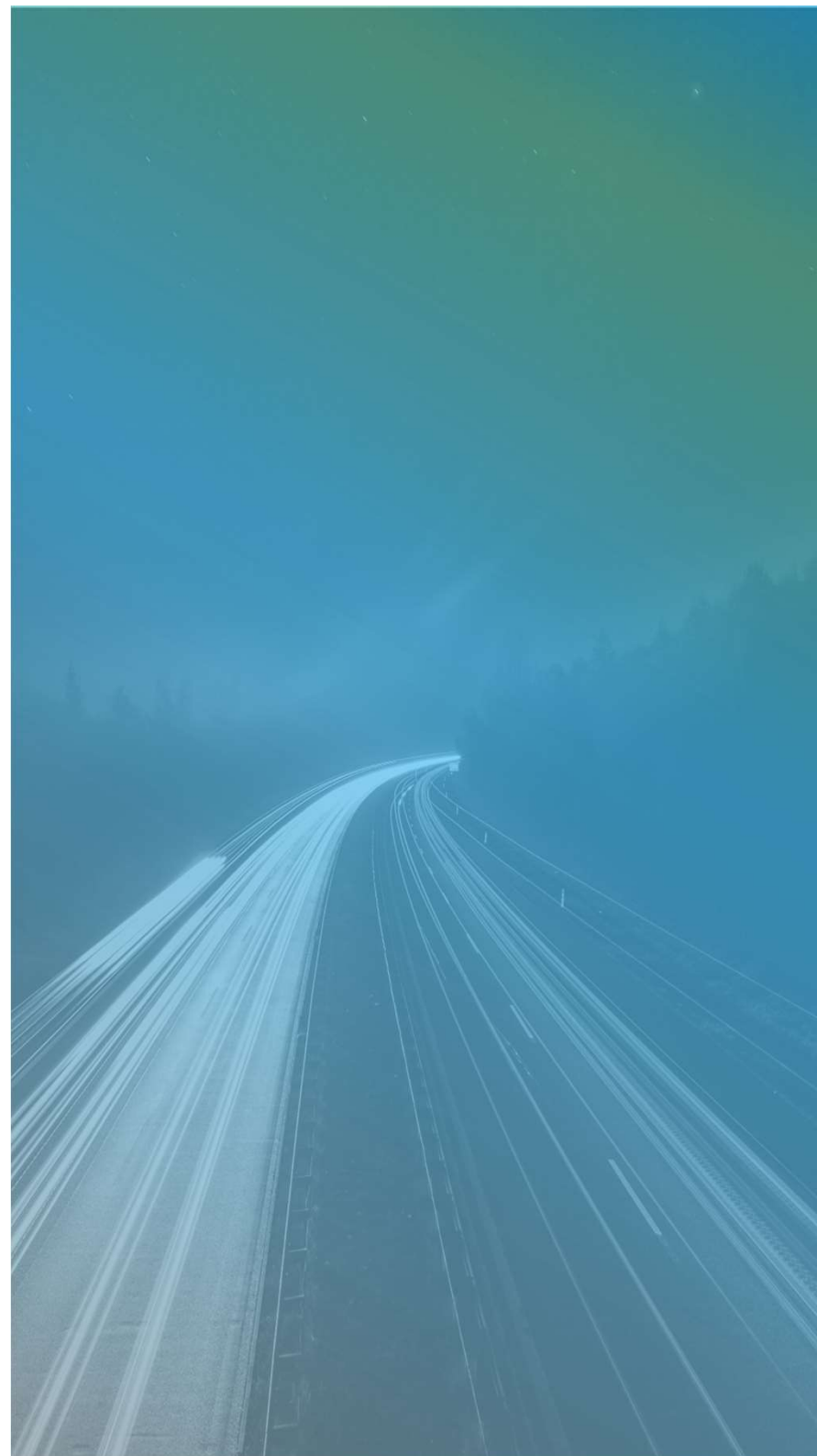


Polyethylene
Virgin Acid
Custom & Chemical Catalysts



Renewable Fuels
Functional Silica/Enzymes
Advanced Plastics Recycling
Activation and Services
Carbon Capture

Third Quarter 2024 Financial Performance



Key Highlights

Q3 2024 Key Highlights

\$179 Mln

GAAP Sales
Q3 2024

\$60 Mln

Adj. EBITDA
Q3 2024¹

29%

Adj. EBITDA Margin
Q3 2024^{1,2}

3.2X

Net Debt Leverage
Ratio^{1,4}

\$59 Mln

Adjusted
Free Cash Flow^{1,3}

\$188 Mln

Liquidity⁵



1. See Appendix for Reconciliations of non-GAAP measures

2. Adjusted EBITDA Margin calculation includes proportionate 50% share of sales from the Zeolyst Joint Venture

3. Adjusted Free Cash Flow = operating net cash less PPE plus cash paid for debt financing costs. For nine months ended September 30, 2024

4. Net Debt Leverage Ratio = (Total debt – Cash and cash equivalents) / Adjusted EBITDA

5. Liquidity = \$123 million of Cash and Cash equivalents + Availability on revolving ABL facility of \$65 million

Financial Performance - Q3 2024

Third Quarter Financial Results

(\$ in millions)	Third Quarter 2024	Third Quarter 2023	\$ Change	% Change
Ecovyst Sales	179.2	173.3	5.9	3.4
Zeolyst Joint Venture Sales	30.9	37.0	(6.1)	(16.5)
Net Income	14.3	16.6	(2.3)	(13.9)
Net Income Margin (%)	8.0	9.6		(160 bps)
Adjusted EBITDA ¹	59.8	67.9	(8.1)	(11.9)
Adjusted EBITDA Margin ^{1,2} (%)	28.5	32.3		(380 bps)

(\$ in millions)	\$ Change	% Change
Sales Change Factors ³	5.9	3.4
Volume	2.9	1.7
Price (ex sulfur pass-through)	3.0	1.7
Price impact of sulfur pass-through	—	—

Ecoservices - Q3 2024 Financial Performance

(\$ in millions)	Third Quarter 2024	Third Quarter 2023	\$ Change	% Change
Sales	153.9	147.6	6.3	4.3
Adjusted EBITDA ¹	55.1	54.7	0.4	0.7
Adjusted EBITDA Margin ¹ (%)	35.8	37.1		(130 bps)
YTD Capital Expenditures ²	42.1	44.0		

Highlights

- Sales benefited from higher sales volume for virgin sulfuric acid and favorable contractual pricing for regeneration services
- Increase in Adjusted EBITDA reflects higher sales volume and pricing, partially offset by higher manufacturing costs associated with inflation, increased planned maintenance costs and costs associated with the reliability program
- Adjusted EBITDA Margin of 35.8%, down 130 basis points primarily driven by the higher manufacturing and maintenance costs, and costs associated with the reliability program

Advanced Materials & Catalysts - Q3 2024 Financial Performance

(\$ in millions)	Third Quarter 2024	Third Quarter 2023	\$ Change	% Change
Advanced Silicas Sales	25.3	25.7	(0.4)	(1.6)
Zeolyst Joint Venture Sales	30.9	37.0	(6.1)	(16.5)
Adjusted EBITDA ¹	10.9	16.4	(5.5)	(33.5)
Adjusted EBITDA Margin ^{1,2} (%)	19.4	26.2		(680 bps)
Advanced Silicas YTD Capital Expenditures ³	7.8	3.6		

Highlights

- Advanced Silicas sales decreased modestly, with higher sales of polyethylene catalysts offset by the timing of event-driven niche custom catalyst sales
- Sales for the Zeolyst Joint Venture decreased on lower sales of catalyst materials used in the production of sustainable fuels and emission control applications, partially offset by higher sales of hydrocracking catalysts and custom catalysts
- Lower Adjusted EBITDA and Adjusted EBITDA Margin reflects lower sales volume within the Zeolyst Joint Venture, partially offset by favorable mix and increased sales of catalysts used for the production of polyethylene in Advanced Silicas

Cash & Leverage

Strong Free Cash Flow Provides for Capital Allocation Flexibility

Adjusted Free Cash Flow¹



Cash Generation

- Continued strong cash flow from operations
- Available liquidity of \$188 million³ as of September 30, 2024

Net Debt Leverage Ratio²



Leverage Ratio and Debt Profile

- Strong cash generation capability has provided for historic reduction in leverage, limited by recent share repurchases
- Interest rate caps limit rate exposure, with weighted average cost of debt of approximately 5.5%
- Excluding any share repurchases or M&A activity, anticipate Net Debt Leverage Ratio of approximately 3x at year-end 2024

1. Adjusted Free Cash Flow = operating net cash less PPE plus cash paid for debt financing costs. See Appendix for Reconciliations of non-GAAP measures
2. Net Debt Leverage Ratio = (Total debt – Cash and cash equivalents) / Adjusted EBITDA. See Appendix for Reconciliations of non-GAAP measures
3. Liquidity = \$123 million of Cash and Cash equivalents + Availability on revolving ABL facility of \$65 million

APPENDIX

Annual Segment Sales, Adjusted EBITDA and Margins

(\$ in millions, except %)	Trailing Twelve Months Ended (TTM)	Year Ended December 31,			
	September 30, 2024	2023	2022	2021	2020
Sales:					
Ecoservices	590.8	584.8	702.5	500.5	401.9
Advanced Silicas	104.5	106.3	117.7	110.7	94.0
Total sales	695.3	691.1	820.2	611.2	495.9
Zeolyst Joint Venture sales	136.2	156.5	132.6	131.3	128.6
Adjusted EBITDA¹:					
Ecoservices	194.7	200.0	227.8	177.7	157.2
Advanced Materials & Catalysts	63.9	81.9	78.0	88.0	74.5
Unallocated corporate expenses	(26.6)	(22.0)	(29.0)	(38.1)	(39.1)
Total Adjusted EBITDA	232.0	259.9	276.8	227.6	192.6
Adjusted EBITDA Margin¹:					
Ecoservices	33.0%	34.2%	32.4%	35.5%	39.1%
Advanced Materials & Catalysts	26.5%	31.2%	31.2%	36.4%	33.5%
Total Adjusted EBITDA Margin^{1,2}	27.9%	30.7%	29.0%	30.7%	30.8%

1. See Appendix "Descriptions for reconciliations of Non-GAAP financial measures"

2. Totals include corporate costs

* Rounding discrepancies may arise when rounding results from dollars (in thousands) to dollars (in millions)

Quarterly Segment Sales, Adjusted EBITDA and Margins

(\$ in millions, except %)	Three Months Ended			Nine Months Ended	Three Months Ended			Nine Months Ended
	March 31, 2024	June 30, 2024	September 30, 2024	September 30, 2024	March 31, 2023	June 30, 2023	September 30, 2023	September 30, 2023
Sales:								
Ecoservices	141.6	153.9	153.9	449.4	137.8	158.1	147.6	443.4
Advanced Silicas	18.9	28.9	25.3	73.1	23.1	26.0	25.7	74.9
Total sales	160.5	182.8	179.2	522.5	160.9	184.1	173.3	518.3
Zeolyst Joint Venture sales	23.5	29.0	30.9	83.4	22.1	44.7	37.0	103.7
Adjusted EBITDA:¹								
Ecoservices	41.5	49.7	55.1	146.3	36.8	60.1	54.7	151.6
Advanced Materials & Catalysts	11.1	14.7	10.9	36.8	13.0	25.4	16.4	54.7
Unallocated corporate expenses	(7.1)	(7.5)	(6.2)	(20.8)	(6.9)	(6.2)	(3.2)	(16.2)
Total Adjusted EBITDA	45.5	56.9	59.8	162.3	42.9	79.3	67.9	190.1
Adjusted EBITDA Margin^{1,2}:								
Ecoservices	29.3%	32.3%	35.8%	32.6%	26.7%	38.0%	37.1%	34.2%
Advanced Materials & Catalysts	26.2%	25.4%	19.4%	23.5%	28.8%	35.9%	26.2%	30.6%
Total Adjusted EBITDA Margin^{1,2}	24.7%	26.9%	28.5%	26.8%	23.4%	34.7%	32.3%	30.6%

1. See Appendix "Descriptions for reconciliations of Non-GAAP financial measures"

2. Totals include corporate costs

* Rounding discrepancies may arise when rounding results from dollars (in thousands) to dollars (in millions)

Sales and Adjusted EBITDA Major Change Factors

Sales

Sales (in \$ millions and %)	Three Months Ended September 30, 2024					
	Ecovyst		Ecoservices		Advanced Silicas	
Sales:	\$	%	\$	%	\$	%
Volume	2.9	1.7	3.3	2.2	(0.4)	(1.6)
Price/Mix	3.0	1.7	3.0	2.1	—	—
Sales Change	5.9	3.4	6.3	4.3	(0.4)	(1.6)

Nine Months Ended September 30, 2024					
Ecovyst		Ecoservices		Advanced Silicas	
\$	%	\$	%	\$	%
34.2	6.5	36.4	8.2	(2.2)	(2.9)
(30.0)	(5.7)	(30.4)	(6.8)	0.4	0.5
4.2	0.8	6.0	1.4	(1.8)	(2.4)

Adjusted EBITDA

Adj. EBITDA (in \$ millions and %)	Three Months Ended September 30, 2024					
	Ecovyst		Ecoservices		Advanced Materials & Catalysts	
Adj EBITDA:	\$	%	\$	%	\$	%
Volume/Mix	(3.7)	(5.4)	2.2	4.0	(5.9)	(36.0)
Price ¹	3.0	4.4	2.9	5.3	0.1	0.6
Variable Cost ¹	0.1	0.1	0.1	0.2	—	—
Currency	—	—	—	—	—	—
Other	(7.5)	(11.0)	(4.8)	(8.8)	0.3	1.9
Adj EBITDA Change	(8.1)	(11.9)	0.4	0.7	(5.5)	(33.5)

Nine Months Ended September 30, 2024					
Ecovyst		Ecoservices		Advanced Materials & Catalysts	
\$	%	\$	%	\$	%
3.6	1.9	19.3	12.7	(15.7)	(28.7)
(24.2)	(12.7)	(23.7)	(15.6)	(0.5)	(0.9)
15.2	8.0	15.2	10.0	—	—
0.4	0.2	—	—	0.4	0.7
(22.8)	(12.0)	(16.1)	(10.6)	(2.1)	(3.8)
(27.8)	(14.6)	(5.3)	(3.5)	(17.9)	(32.7)

1. Excludes the sulfur cost pass-through impact reflected in price and the associated sulfur cost reflected in variable cost; immaterial for the three months ended and \$7 million for the nine months ended September 30, 2024

Reconciliation of Net Income to Adjusted EBITDA

(\$ in millions, except %)	Three Months Ended	TTM	Year Ended			
	September 30, 2024	September 30, 2024	December 31, 2023	December 31, 2022	December 31, 2021	December 31, 2020
Reconciliation of net income to Adjusted EBITDA						
Net income	14.3	53.8	71.2	69.8	1.8	54.3
Provision (benefit) for income taxes	4.5	2.0	10.8	24.9	12.1	(52.1)
Interest expense, net	11.3	51.5	44.7	37.2	37.0	50.4
Depreciation and amortization	23.2	88.8	84.6	79.2	79.7	76.9
EBITDA	53.3	196.1	211.3	211.1	130.6	129.5
Joint venture depreciation, amortization and interest ^(a)	3.6	13.4	13.4	16.0	15.6	14.7
Amortization of investment in affiliate step-up ^(b)	0.6	4.7	6.4	6.4	6.5	6.6
Debt extinguishment costs	—	4.6	—	—	26.9	25.0
Net loss on asset disposals ^(c)	0.2	1.6	4.1	3.6	5.7	4.7
Foreign currency exchange (gain) loss ^(d)	—	(0.8)	(1.3)	1.4	4.7	(5.3)
LIFO (benefit) expense ^(e)	(0.6)	(2.2)	3.5	(0.2)	(1.9)	(5.3)
Transaction and other related costs ^(f)	—	0.4	3.0	7.0	2.0	1.1
Equity-based compensation	3.0	13.9	16.0	20.6	31.8	17.2
Restructuring, integration and business optimization expenses ^(g)	0.5	1.2	2.7	11.6	3.0	2.0
Other ^(h)	(0.8)	(0.9)	0.8	(0.7)	2.7	2.4
Adjusted EBITDA¹	59.8	232.0	259.9	276.8	227.6	192.6

Reconciliation of Net Income to Adjusted EBITDA

(\$ in millions, except %)	Three Months Ended			TTM	Three Months Ended			Twelve Months Ended
	March 31, 2024	June 30, 2024	September 30, 2024	September 30, 2024	March 31, 2023	June 30, 2023	September 30, 2023	December 31, 2023
Reconciliation of net income (loss) to Adjusted EBITDA								
Net income (loss)	1.2	8.3	14.3	53.8	(1.5)	26.1	16.6	30.0
Provision (benefit) for income taxes	1.2	3.1	4.5	2.0	0.9	8.8	7.9	(6.8)
Interest expense, net	13.4	12.9	11.3	51.5	9.9	9.2	11.8	13.9
Depreciation and amortization	21.9	21.6	23.2	88.8	20.2	21.0	21.3	22.1
EBITDA	37.7	45.9	53.3	196.1	29.5	65.1	57.6	59.2
Joint venture depreciation, amortization and interest ^(a)	3.3	3.2	3.6	13.4	3.6	3.2	3.3	3.3
Amortization of investment in affiliate step-up ^(b)	1.6	0.9	0.6	4.7	1.6	1.6	1.6	1.6
Debt extinguishment costs	—	4.6	—	4.6	—	—	—	—
Net loss on asset disposals ^(c)	0.6	—	0.2	1.6	1.2	1.1	1.0	0.8
Foreign currency exchange loss (gain) ^(d)	0.2	(0.1)	—	(0.8)	(0.7)	(0.4)	0.8	(0.9)
LIFO (benefit) expense ^(e)	(1.1)	(1.5)	(0.6)	(2.2)	1.4	1.1	—	1.0
Transaction and other related costs ^(f)	0.1	0.1	—	0.4	1.4	1.2	0.2	0.2
Equity-based compensation	3.7	3.8	3.0	13.9	4.1	5.0	3.5	3.4
Restructuring, integration and business optimization expenses ^(g)	0.2	0.2	0.5	1.2	1.0	1.1	0.3	0.3
Other ^(h)	(0.8)	(0.2)	(0.8)	(0.9)	(0.2)	0.3	(0.4)	0.9
Adjusted EBITDA¹	45.5	56.9	59.8	232.0	42.9	79.3	67.9	69.8
EBITDA Adjustments by Line Item								
EBITDA	37.7	45.9	53.3	196.1	29.5	65.1	57.6	59.2
Cost of goods sold	(1.9)	(2.3)	(1.4)	(5.4)	0.6	0.3	(0.8)	0.2
Selling, general and administrative expenses	3.7	3.8	2.9	13.9	4.1	5.0	3.5	3.5
Other operating expense, net	1.0	0.5	0.7	4.7	4.1	3.7	1.8	2.5
Equity in net (income) from affiliated companies	1.6	0.9	0.6	4.7	1.6	1.6	1.6	1.6
Other (income) expense, net ²	0.2	4.9	0.1	4.7	(0.6)	0.4	0.9	(0.5)
Joint venture depreciation, amortization and interest ^(a)	3.2	3.2	3.6	13.3	3.6	3.2	3.3	3.3
Adjusted EBITDA	45.5	56.9	59.8	232.0	42.9	79.3	67.9	69.8

1. For additional information with respect to each adjustment, see appendix "Descriptions for reconciliations of Non-GAAP financial measures"

2. Other (income) expense, net includes debt extinguishment costs

* Rounding discrepancies may arise when rounding results from dollars (in thousands) to dollars (in millions)

Descriptions for reconciliation of Non-GAAP financial measures

- a. We use Adjusted EBITDA as a performance measure to evaluate our financial results. Because our Advanced Materials & Catalysts segment includes our 50% interest in the Zeolyst Joint Venture, we include an adjustment for our 50% proportionate share of depreciation, amortization and interest expense of the Zeolyst Joint Venture.
- b. Represents the amortization of the fair value adjustments associated with the equity affiliate investment in the Zeolyst Joint Venture as a result of the combination of the businesses of PQ Holdings Inc. and Eco Services Operations LLC in May 2016. We determined the fair value of the equity affiliate investment and the fair value step-up was then attributed to the underlying assets of the Zeolyst Joint Venture. Amortization is primarily related to the fair value adjustments associated with intangible assets, including customer relationships and technical know-how.
- c. When asset disposals occur, we remove the impact of net gain/loss of the disposed asset because such impact primarily reflects the non-cash write-off of long-lived assets no longer in use.
- d. Reflects the exclusion of the foreign currency transaction gains and losses in the statements of income related to the remeasurement effects of monetary assets and liabilities, including non-permanent intercompany debt, denominated in foreign currency.
- e. Represents non-cash adjustments to the Company's LIFO reserves for certain inventories in the U.S. that are valued using the LIFO method, effectively reflecting the results as if these inventories were valued using the FIFO method, which we believe provides a means of comparison to other companies that may not use the same basis of accounting for inventories.
- f. Relates to certain transaction costs, including debt financing, due diligence and other costs related to transactions that are completed, pending or abandoned, that we believe are not representative of our ongoing business operations.
- g. Includes the impact of restructuring, integration and business optimization expenses, which are incremental costs that are not representative of our ongoing business operations.
- h. Other consists of adjustments for items that are not core to our ongoing business operations. These adjustments include environmental remediation and other legal costs, expenses for capital and franchise taxes, and defined benefit pension and postretirement plan (benefits) costs, for which our obligations are under plans that are frozen. Also included in this amount are adjustments to eliminate the benefit realized in cost of goods sold of the allocation of a portion of the contract manufacturing payments under the five-year agreement with the buyer of the Performance Chemicals business to the financing obligation under the failed sale-leaseback. Included in this line-item are rounding discrepancies that may arise from rounding from dollars (in thousands) to dollars (in millions).

Adjusted Free Cash Flow

(\$ in millions)	Full Year 2023	Nine months ended September 30, 2023	Nine months ended September 30, 2024
Net cash provided by operating activities	137.6	73.4	106.4
Less: Purchases of property, plant and equipment ¹	65.3	53.6	51.7
Free Cash Flow	72.3	19.8	54.7
Cash paid for debt financing costs included in cash from operating activities	—	—	4.6
Adjusted Free Cash Flow	72.3	19.8	59.3

(\$ in millions)	Full Year 2023	Nine months ended September 30, 2023	Nine months ended September 30, 2024
Included in net cash provided by operating activities are the following supplemental cash items:			
Cash paid for taxes	22.4	19.0	20.8
Cash paid for interest ²	42.1	28.5	37.0

1. Excludes the Company's proportionate 50% share of capital expenditures from the Zeolyst Joint Venture
 2. Shown net of capitalized interest and includes the cash received or paid on interest rate cap agreements
- * Rounding discrepancies may arise when rounding results from dollars (in thousands) to dollars (in millions)

Net Debt Leverage Ratio

(\$ in millions, except %)	Q3 2023	Q4 2023	Q1 2024	Q2 2024	Q3 2024
Total debt	879.8	877.5	875.3	873.0	873.0
Less: Cash and cash equivalents	38.3	88.4	103.1	83.3	123.5
Net debt	841.5	789.1	772.2	789.7	749.5
Net income	62.7	71.2	73.9	56.1	53.8
Adjusted EBITDA	259.3	259.9	262.5	240.1	232.0
Net Debt to Net Income Ratio	13.4x	11.1x	10.4x	14.1x	13.9x
Net Debt Leverage Ratio	3.2x	3.0x	2.9x	3.3x	3.2x

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sustainability-driven future*



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