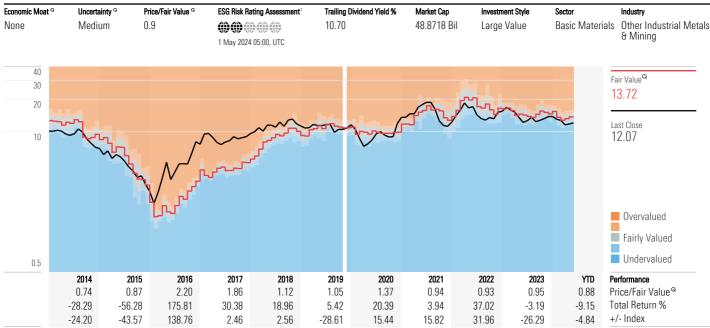
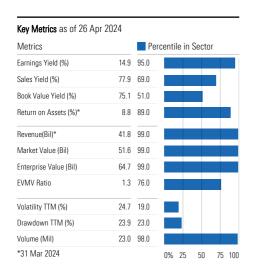
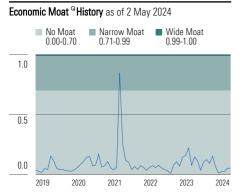
Vale SA XVALO ★★★★ Q 2 May 2024, 22:38 UTC



As of 2 May 2024 | Index: Morningstar Brazil GR BRL. Fair Value data as of 2 May 2024, 22:38 UTC

'The ESG Risk Rating Assessment is a representation of Sustainalytics' ESG Risk Rating. Lee Davidson, Chief Analytics Officer for Morningstar, Inc, oversees the methodology that supports Quantitative Fair Value Estimates and Quantitative Star Ratings. Mr. Davidson is guided by the Morningstar, Inc. Code of Ethics in carrying out his responsibilities. For information regarding Conflicts of Interests, visit http://global.morningstar.com/equitydisclosures.





Business Description

No data available

Valuation as of 2 May 2024

Vale achieves a 4-star quantitative star rating based on Morningstar's equity model. This reflects the company's valuation and uncertainty scores under this assessment system.

The Quantitative Fair Value estimate is 13.17, above the previous closing price of 11.80. The stock has been trading between a 25.16% discount and 0.57% premium to its quantitative fair value over the past year. The stock's current valuation rating sits at the 78th percentile in the coverage universe and 88th percentile in the basic materials sector (higher percentile indicates more undervalued).

The quantitative uncertainty rating for Vale is High. Our quantitative star rating last differed from the current rating on 03/14/2024; the uncertainty rating last differed on 04/29/2024. The previous ratings were 3 and Medium, respectively.

The main drivers of the company's valuation and uncertainty are its earnings yield and volume. The earnings yield of 14.84% falls at the 93rd percentile in the equity universe and the 95th percentile in its sector. The trailing 12-month average volume (primary share) of 22,910,211 shares corresponds to the 95th percentile overall and the 95th percentile in the industry.

Economic Moat ^Qas of 2 May 2024

Quantitatively, we do not believe Vale has an economic moat. Its moat score of 0.08 corresponds to the 9th percentile in the basic materials sector. Furthermore, this rating last differed from its previous rating of Narrow on 11/23/2023, when the company's moat score fell from its maximum of 0.73

(score of 1 indicates greatest economic moat).

The company also maintains a quantitative financial health rating of Moderate. Its score sits at the 49th percentile overall and the 63rd percentile in the sector.

Examining the company's financials and market statistics, we find these ratings are principally driven by its book value yield and enterprise value-to-market value ratio. The book value yield is 71.79%, sitting at the 50th percentile in the basic materials sector. The company's enterprise value-to-market value ratio is 1.25, corresponding to the 67th percentile in the equity coverage universe and the 76th percentile in the sector.

Fundamentals as of 2 May 2024

Vale maintains earnings per share of 1.81. The company further earns a return on invested capital of 16.2%. The shares offer a dividend yield of 10.95%. These values are calculated over a trailing 12-month period.

As of last market close, Vale has a price-to-earnings ratio of 6.99, falling below the 14th percentile in its sector (where a lower percentile means a lower ratio) and ranging between 4.22 and 7.64 over the past year. The company's price-to-free cash flow ratio is 7.88, falling at the 26th percentile in its sector and ranging between 7.38 and 14.97 over the past year.

Contact

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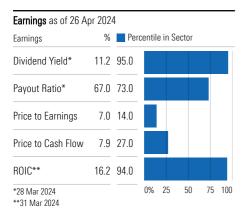
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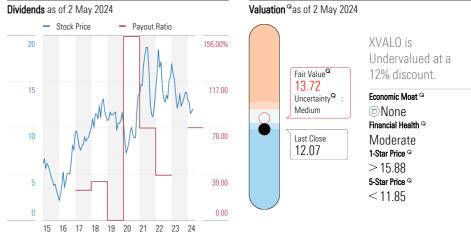
https://www.vale.com



Vale SA XVALO ★★★★ Q 2 May 2024, 22:38 UTC

Economic Moat ^Q	Uncertainty ^Q	Price/Fair Value Q	ESG Risk Rating Assessment ¹	Trailing Dividend Yield %	Market Cap	Investment Style	Sector	Industry
None	Medium	0.9	00 000	10.70	48.8718 Bil	Large Value	Basic Materials	Other Industrial Metals
			1 May 2024 05:00, UTC					& Mining





		•											
2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	YTD	Fiscal		
35.12	23.38	27.49	33.97	36.58	36.55	39.55	54.50	43.84	41.78	8.46	Revenue (Bil)		
8.99	2.54	8.43	11.41	13.07	15.02	19.59	30.84	17.79	15.86	2.61	Operating Income (Bil)		
25.61	10.88	30.66	33.59	35.74	41.08	49.54	56.59	40.57	37.95	30.81	Operating Margin (%)		
0.66	-12.13	3.98	5.51	6.86	-1.68	4.88	22.45	18.79	7.98	1.68	Net Income (Bil)		
0.13	-2.33	0.77	1.05	1.32	-0.33	0.95	4.47	4.05	1.83	0.39	Diluted Earnings/Share		
13.10	3.93	6.40	12.45	12.90	12.11	14.32	25.68	11.49	13.17	3.58	Operating Cash Flow (Bil)		
-11.78	-8.11	-4.95	-3.83	-3.78	-3.46	-4.23	-5.03	-5.45	-5.92	-1.40	Capital Spending (Bil)		
1.33	-4.18	1.45	8.62	9.12	8.65	10.10	20.65	6.04	7.25	2.18	Free Cash Flow (Bil)		
5,153	5,197	5,197	5,197	5,178	5,128	5,133	5,017	4,642	4,370	4,290	Avg Shares Outstand(Mil)		
luation a	as of 2 Ma	y 2024											
2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	Current	Calendar		
0.74	0.87	2.20	1.86	1.12	1.05	1.37	0.94	0.93	0.95	0.88	Price/Fair Value Q		
1.05	0.55	1.63	1.73	1.87	1.80	2.42	1.25	1.73	1.67	1.33	Price/Sales		
_	_	_	8.75	15.21	18.30	33.42	3.99	4.24	7.29	7.08	Price/Earnings		
3.30	3.62	7.74	5.19	5.06	5.37	7.96	2.34	6.79	6.59	4.23	Price/Cash Flow		
1.12	0.82	1.05	1.32	1.62	1.59	2.48	2.03	2.22	1.73	1.46	Price/Book		
erating	Performar	ice as of 2	2 May 202	24 (Fiscal	Year End	31 Dec 20	024)						
2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	03	Fiscal (%)		
0.55	-11.83	4.25	5.56	7.32	-1.87	5.31	24.74	21.31	8.82	1.81	Return on Assets		
1.81	-57.03	30.11	18.54	15.69	-4.0	12.88	63.93	53.42	21.2	4.36	Return on Equity		
2.37	-23.57	11.42	12.29	12.19	0.53	11.61	44.01	36.88	16.65	3.15	Rtn on Invested Capital		
vidends	as of 2 Ma	ay 2024											
2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	Current	Calendar (%)		
1.89	0.98	0.17	1.33	0.49	1.41	2.41	14.65	7.58	6.08	1.62	Dividend Per Share		
8.81	9.71	0.62	3.81	1.99	1.92	2.68	18.84	4.78	_	10.7	Trailing Dividend Yield		
				_	0.75	_	7.15	7.36	_	4.23	Buyback Yield		



Appendix

Economic Moat ^Q History as of 2 May 2024 (No Moat: 0.00-0.70, Narrow Moat: 0.70-0.99, Wide Moat: 0.99-1.00)												
Year	January	February	March	April	May	June	July	August	September	October	November	December
2024	0.06	0.01	0.02	0.03	0.05	_	_	_	_	_	_	_
2023	0.07	0.14	0.16	0.22	0.08	0.15	0.12	0.04	0.11	0.12	0.09	0.16
2022	0.06	0.04	0.06	0.07	0.06	0.08	0.05	0.04	0.03	0.01	0.08	0.11
2021	0.11	0.06	0.04	0.06	0.85	0.26	0.12	0.10	0.04	0.07	0.04	0.08
2020	0.03	0.04	0.06	0.09	0.11	0.14	0.15	0.07	0.08	0.17	0.06	0.07
2019	0.04	0.03	0.02	0.05	0.04	0.15	0.12	0.05	0.04	0.04	0.03	0.03



Quantitative Equity Report Overview

The quantitative report on equities consists of data, statistics and quantitative equity ratings on equity securities. Morningstar, Inc.'s quantitative equity ratings are forward looking and are generated by a statistical model that is based on Morningstar Inc.'s analyst-driven equity ratings and quantitative statistics. Given the nature of the quantitative report and the quantitative ratings, there is no one analyst in which a given report is attributed to; however, Mr. Lee Davidson, Head of Quantitative Research for Morningstar, Inc., is responsible for overseeing the methodology that supports the quantitative equity ratings used in this report. As an employee of Morningstar, Inc., Mr. Davidson is guided by Morningstar, Inc.'s Code of Ethics and Personal Securities Trading Policy in carrying out his responsibilities.

Quantitative Equity Ratings

Morningstar's quantitative equity ratings consist of: (i) Quantitative Fair Value Estimate, (ii) Quantitative Star Rating, (iii) Quantitative Uncertainty, (iv) Quantitative Economic Moat, and (v) Quantitative Financial Health (collectively the "Quantitative Ratings).

The Quantitative Ratings are calculated daily and derived from the analyst-driven ratings of a company's peers as determined by statistical algorithms. Morningstar, Inc. ("Morningstar", "we", "our") calculates Quantitative Ratings for companies whether or not it already provides analyst ratings and qualitative coverage. In some cases, the Quantitative Ratings may differ from the analyst ratings because a company's analyst-driven ratings can significantly differ from other companies in its peer group.

- i. Quantitative Fair Value Estimate: Intended to represent Morningstar's estimate of the per share dollar amount that a company's equity is worth today. Morningstar calculates the Quantitative Fair Value Estimate using a statistical model derived from the Fair Value Estimate Morningstar's equity analysts assign to companies. Please go to http://global.morningstar.com/equitydisclosures for information about Fair Value Estimate Morningstar's equity analysts assign to companies.
- ii. **Quantitative Economic Moat:** Intended to describe the strength of a firm's competitive position. It is calculated using an algorithm designed to predict the Economic Moat rating a Morningstar analyst would assign to the stock. The rating is expressed as Narrow, Wide, or None.

Narrow – assigned when the probability of a stock receiving a "Wide Moat" rating by an analyst is greater than 70% but less than 99%.

Wide — assigned when the probability of a stock receiving a "Wide Moat" rating by an analyst is greater than 99%.

None — assigned when the probability of an analyst receiving a "Wide Moat" rating by an analyst is less than 70%.

- iii. **Quantitative Star Rating:** Intended to be the summary rating based on the combination of our Quantitative Fair Value Estimate, current market price, Quantitative Uncertainty Rating, and momentum. The rating is expressed as One-Star, Two-Star, Three-Star, Four-Star, and Five-Star.
 - ★ the stock is overvalued with a reasonable margin of safety. Log (Quant FVE/Price) < -1*Quantitative Uncertainty Micro-Caps: Log (Quant FVE/Price) < -1.5*Quantitative Uncertainty</p>
 - ** the stock is somewhat overvalued.

Log (Quant FVE/Price) between (-1*Quantitative Uncertainty, -0.5*Quantitative Uncertainty)

Micro-Caps: Log (Quant FVE/Price) between (-1.5*Quantitative Uncertainty, -0.75*Quantitative Uncertainty)

★★★ – the stock is approximately fairly valued.

 $\label{log-log-log-log-log-log} \textit{Log (Quant FVE/Price) between (-0.5*Quantitative Uncertainty, 0.5*Quantitative Uncertainty)}$

Micro-Caps: Log (Quant FVE/Price) between (-0.75*Quantitative Uncertainty, 0.75*Quantitative Uncertainty)

 $\star\star\star\star$ – the stock is somewhat undervalued.

Log (Quant FVE/Price) between (0.5*Quantitative Uncertainty, 1*Quantitative

Uncertainty)

Micro-Caps: Log (Quant FVE/Price) between (0.75*Quantitative Uncertainty, 1.5*Quantitative Uncertainty)

★★★★ — the stock is undervalued with a reasonable margin of safety.

Log (Quant FVE/Price) > 1*Quantitative Uncertainty

Micro-Caps: Log (Quant FVE/Price) > 1.5*Quantitative Uncertainty

After the initial calculation for the star rating, there is a final filtering step based on the momentum of the company. We rank the companies based on their 12-1 month momentum, then restrict those below the 30th percentile to a maximum of 3 stars

iv. **Quantitative Uncertainty:** Intended to represent Morningstar's level of uncertainty about the accuracy of the Quantitative Fair Value Estimate. Generally, the lower the Quantitative Uncertainty, the narrower the potential range of outcomes for that particular company. The rating is expressed as Low, Medium, High, Very High, and Extreme.

Low – the interquartile range for possible fair values is less than 10%
Medium – the interquartile range for possible fair values is less than 15%
but greater than 10%

 $\bar{\text{\textbf{High}}}$ — the interquartile range for possible fair values is less than 35% but greater than 15%

Very High – the interquartile range for possible fair values is less than 80% but greater than 35%

 $\label{eq:continuous} \textbf{Extreme} - \text{the interquartile range for possible fair values is greater than } 80\%$

v. **Quantitative Financial Health:** Intended to reflect the probability that a firm will face financial distress in the near future. The calculation uses a predictive model designed to anticipate when a company may default on its financial obligations. The rating is expressed as Weak, Moderate, and Strong.

 $\begin{array}{ccc} \textbf{Weak} & - \text{ assigned when Quantitative Financial Health} < 0.2 \\ \textbf{Moderate} & - \text{ assigned when Quantitative Financial Health} \text{ is between } 0.2 \\ \text{and } 0.7 \\ \end{array}$

Strong – assigned when Quantitative Financial Health > 0.7

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- Quantitative Valuation— Using the below terms, intended to denote the relationship between the security's Last Price and Morningstar's quantitative fair value estimate for that security.

Undervalued – Last Price is below Morningstar's quantitative fair value estimate.

Farily Valued – Last Price is in line with Morningstar's quantitative fair value estimate.

Farily Valued – Last Price is in line with Morningstar's quantitative fair value estimate.

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Based on their quantitative scores, companies are grouped into one of five Risk Categories (negligible, low, medium, high, severe). These risk categories are absolute, meaning that a 'high risk' assessment reflects a comparable degree



of unmanaged ESG risk across all subindustries covered.

The ESG Risk Rating Assessment is a visual representation of Sustainalytics ESG Risk Categories on a 1 to 5 scale. Companies with Negligible Risk = 5 Globes, Low Risk = 4, Medium Risk = 3 Globes, High Risk = 2 Globes, Severe Risk = 1 Globe. For more information, please visit sustainalytics.com/esgratings/

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