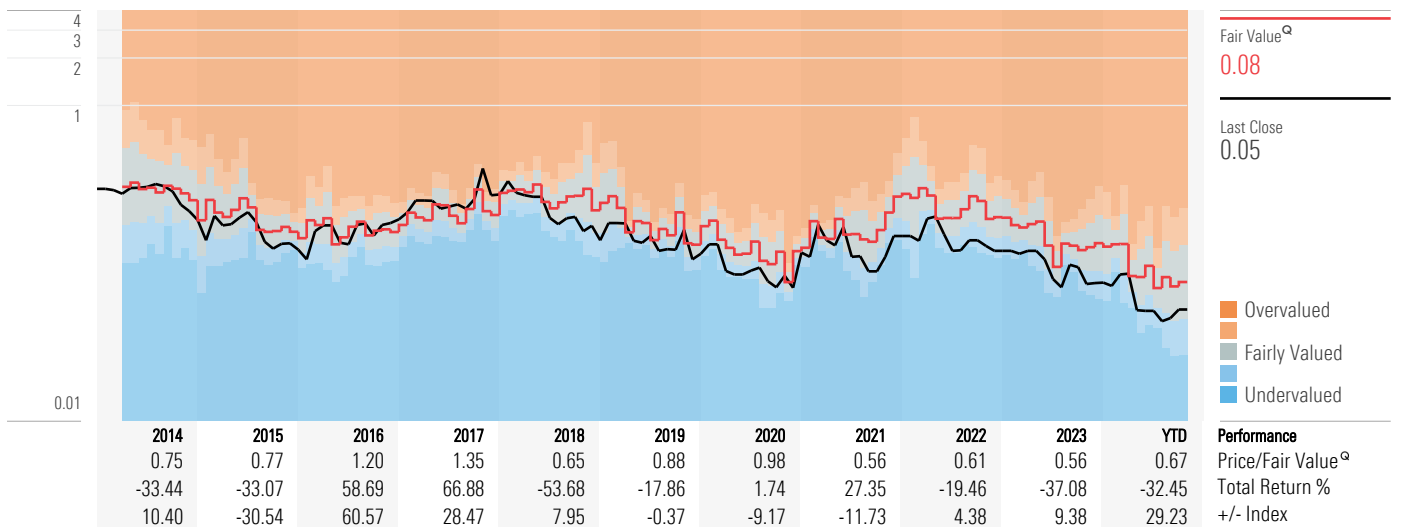


Volcan Compania Minera SAA Class B XVLB ★★★ Q 11 Oct 2024 22:46, UTC

Economic Moat ^Q	Uncertainty ^Q	Price/Fair Value ^Q	ESG Risk Rating Assessment ¹	Trailing Dividend Yield %	Market Cap	Investment Style	Sector	Industry
None	Extreme	0.67	2 Oct 2024 05:00, UTC	0.00	—	Small Blend	Basic Materials	Other Industrial Metals & Mining



As of 11 Oct 2024 | Index: Morningstar Peru GR PEN. Fair Value data as of 11 Oct 2024 00:00, UTC.

¹The 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>.

Key Metrics as of 10 Oct 2024

Metrics	Value	Percentile in Sector
Earnings Yield (%)	-3.9	49.0
Sales Yield (%)	428.3	95.0
Book Value Yield (%)	166.9	84.0
Return on Assets (%)*	-0.4	58.0
Revenue(Mil)*	843.6	77.0
Market Value (Mil)	363.8	69.0
Enterprise Value (Bil)	1.1	76.0
EVMV Ratio	3.0	96.0
Volatility TTM (%)	54.8	55.0
Drawdown TTM (%)	52.5	69.0
Volume (Mil)	3.8	87.0

*30 Jun 2024

Business Description

Volcan Compania Minera SAA is a Peruvian mining company. All of its operations are located in the central mountains of the Peruvian Andes, which include operating units such as Yauli, Chungar, Alpamarca, and Cerro de Pasco. These four operating units include a total of 10 mines, seven concentrator plants, and an oxide leaching plant. Zinc constitutes the largest contribution to consolidated revenue, and with silver, makes up the vast majority of sales. In addition to the zinc and silver business, the company also mines lead, copper, and gold.

Valuation ^Q as of 11 Oct 2024

Morningstar maintains a 3-star quantitative star rating for Volcan Compania Minera, derived from the firm's valuation and uncertainty scores. The company's shares last closed at 0.0510, below our quantitative fair value estimate of 0.0743. These shares have traded between a 51.21% and 27.52% discount to their fair value estimate over the past year. In Morningstar's equity coverage universe for this methodology, the company's valuation rating lands at the 43rd percentile; in the basic materials sector, the firm's score lies at the 62nd percentile.

Furthermore, Volcan Compania Minera maintains a quantitative valuation uncertainty rating of Extreme.

The company has held this star rating over the past year. The uncertainty rating for Volcan Compania Minera has remained Extreme since the previous rating of Very High, which was last assigned on 08/01/2024.

The key factors behind these ratings are the company's EV-MV ratio and volatility. The enterprise value-to-market value ratio is 2.96, and its maximum annualized trailing 12-month volatility is

55.13%. The EV-MV ratio falls above the 95th percentile in the basic materials sector while the volatility is at the 55th percentile. Over the past year, the company's EV-MV ratio has ranged between 3.97 and 0.88; its volatility has ranged between 55.13% and 25.58%.

Economic Moat ^Q as of 11 Oct 2024

Morningstar maintains a quantitative moat rating of None on the company. The firm's quantitative moat score of 0.01 sits at the 5th percentile in the basic materials sector. This is a decrease from 0.27, the maximum of its moat scores over the past year. The quantitative financial health rating for Volcan Compania Minera is Moderate. Its financial health score, termed Distance to Default, sits at the 6th percentile in the universe and 5th percentile in the sector.

The significant drivers of these ratings are the company's book value yield and enterprise value-to-market value ratio. The book value yield for Volcan Compania Minera is 166.93%, and its enterprise value-to-market value ratio is 2.96. They sit at the 87th and 93rd percentile in the global equity universe, respectively.

Fundamentals as of 11 Oct 2024

The earnings per share for Volcan Compania Minera are break-even. The company earns a return on invested capital of 3.13%, falling at the 68th percentile in the basic materials sector. The company did not report a dividend. We calculate the above figures over a trailing 12-month period.

Examining valuation further, the company's price-to-free cash flow ratio is 2.58, greater than 5% of its sector peers. These values are calculated using the stock's price at last market close.

Volcan Compania Minera SAA Class B XVLB ★★★

Q 11 Oct 2024 22:46, UTC

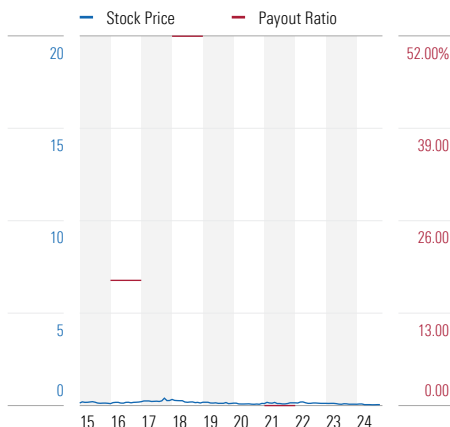
Economic Moat ^Q	Uncertainty ^Q	Price/Fair Value ^Q	ESG Risk Rating Assessment ¹	Trailing Dividend Yield %	Market Cap	Investment Style	Sector	Industry
None	Extreme	0.67	2 Oct 2024 05:00, UTC	0.00	—	Small Blend	Basic Materials	Other Industrial Metals & Mining

Earnings as of 10 Oct 2024

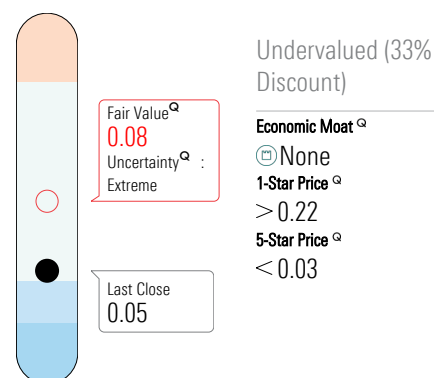
Earnings	%	■ Percentile in Sector
Dividend Yield*	—	—
Payout Ratio*	—	—
Price to Earnings	—	—
Price to Cash Flow	2.6	4.0
ROIC**	3.1	68.0

*—
**30 Jun 2024

Dividends as of 11 Oct 2024



Valuation ^Q as of 11 Oct 2024



Contact

Avenida Manuel Olguin 373 Santiago de Surco,
Lima
T +51 14167000
<https://www.volcan.com.pe>

Financials (Fiscal Year End 31 Dec 2024)

	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	06/2024	Fiscal
Revenue (Mil)	1,030.42	790.08	832.69	872.15	789.58	737.39	535.47	937.40	951.27	883.09	843.64	
Operating Income (Mil)	154.18	36.36	155.75	160.46	156.00	43.42	-33.98	198.63	80.62	71.86	81.10	
Operating Margin (%)	14.96	4.60	18.70	18.40	19.76	5.89	-6.35	21.19	8.47	8.14	8.14	
Net Income (Mil)	56.82	-453.91	84.41	-477.47	29.38	-70.33	-150.44	39.87	-81.38	-9.98	-7.76	
Diluted Earnings/Share	0.02	-0.12	0.02	-0.12	0.01	-0.02	-0.04	0.01	-0.02	0.00	0.00	
Operating Cash Flow (Mil)	—	—	—	—	—	—	—	—	—	—	—	
Capital Spending (Mil)	414.27	181.58	113.63	331.32	201.86	171.13	117.41	174.57	221.81	179.93	187.72	
Free Cash Flow (Mil)	-216.47	-9.55	99.06	27.89	22.16	6.03	15.46	149.29	-7.60	14.28	25.48	
Avg Shares Outstand(Bil)	3.86	3.86	3.86	3.88	3.88	3.88	3.88	3.88	3.86	3.86	3.88	

Valuation as of 11 Oct 2024

	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	Current	Calendar
Price/Fair Value ^Q	0.75	0.77	1.20	1.35	0.65	0.88	0.98	0.56	0.61	0.56	0.67	
Price/Sales	1.07	0.63	1.06	1.51	0.77	0.69	0.92	0.80	0.51	0.35	0.25	
Price/Earnings	10.35	20.03	—	14.29	—	—	—	—	32.31	—	—	
Price/Cash Flow	3.93	2.35	5.97	4.74	1.84	3.04	4.07	2.70	1.77	1.68	1.00	
Price/Book	0.61	0.35	0.75	1.17	0.96	0.78	1.06	1.53	1.01	0.85	0.64	

Operating Performance (Fiscal Year End 31 Dec 2024)

	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	06/2024	Fiscal (%)
Return on Assets	1.92	-16.36	3.22	-19.20	1.30	-3.20	-7.09	1.88	-3.93	-0.52	-0.42	
Return on Equity	3.83	-36.05	7.85	-55.32	4.69	-11.54	-30.46	9.13	-19.56	-2.70	-2.22	
Rtn on Invested Capital	3.55	-22.73	6.15	-30.84	4.38	-3.80	-22.25	18.54	-10.89	7.53	3.13	

Dividends as of 11 Oct 2024

	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	Current	Calendar (%)
Dividend Per Share	0.01	0.00	0.00	0.01	0.00	—	—	—	—	—	—	
Trailing Dividend Yield	3.27	3.01	1.83	2.28	2.55	0.00	0.00	0.00	0.00	0.00	0.00	
Buyback Yield	0.02	0.07	0.00	0.00	0.00	—	—	—	—	0.86	—	

Appendix

Economic Moat [®]History as of 11 Oct 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	0.05	0.07	0.27	0.06	0.03	0.07	0.03	0.05	0.01	0.02	—	—
2023	0.03	0.01	0.01	0.04	0.05	0.07	0.04	0.06	0.01	0.03	0.02	0.01
2022	0.07	0.14	0.05	0.11	0.03	0.02	0.02	0.02	0.03	0.05	0.04	0.01
2021	0.12	0.19	0.22	0.10	0.04	0.03	0.03	0.08	0.14	0.16	0.08	0.07
2020	0.03	0.01	0.01	0.00	0.00	0.00	0.02	0.04	0.00	0.00	0.00	0.03
2019	0.14	0.07	0.02	0.01	0.01	0.00	0.01	0.00	0.00	0.00	0.00	0.01

Quantitative Equity Report Overview

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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*

★★ – 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.

*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)*

★★★★ – 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%

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%

Extreme – 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.

Weak – assigned when Quantitative Financial Health < 0.2

Moderate – assigned when Quantitative Financial Health is between 0.2 and 0.7

Strong – assigned when Quantitative Financial Health > 0.7

Other Definitions

i. **Last Close** – Price of the stock as of the close of the market of the last trading day before date of the report.

ii. **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.

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

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

Overvalued – Last Price is above 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/esg-ratings/

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