
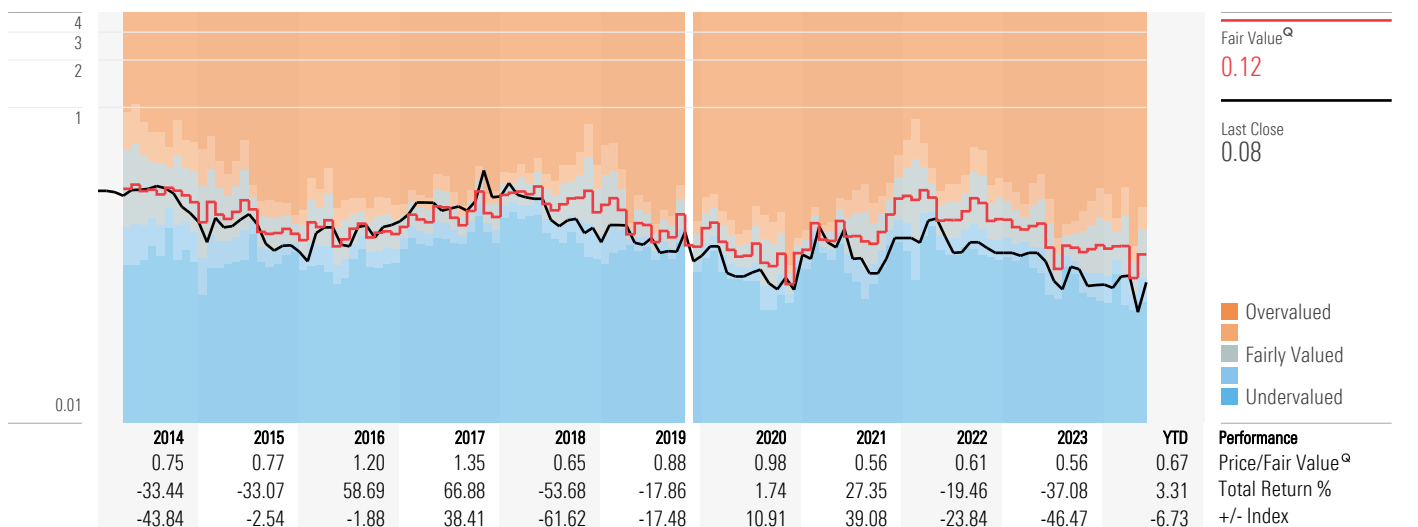


# Volcan Compania Minera SAA Class B XVLB ★★★ 6 May 2024, 22:37 UTC

| Economic Moat <sup>Q</sup> | Uncertainty <sup>Q</sup> | Price/Fair Value <sup>Q</sup> | ESG Risk Rating Assessment <sup>1</sup>   | Trailing Dividend Yield % | Market Cap   | Investment Style | Sector          | Industry                         |
|----------------------------|--------------------------|-------------------------------|---|---------------------------|--------------|------------------|-----------------|----------------------------------|
| None                       | Very High                | 0.7                           |  1 May 2024 05:00, UTC | 2.93                      | 348.3172 Mil | Small Value      | Basic Materials | Other Industrial Metals & Mining |



As of 6 May 2024 | Index: Morningstar Peru GR PEN. Fair Value data as of 6 May 2024, 22:37 UTC.

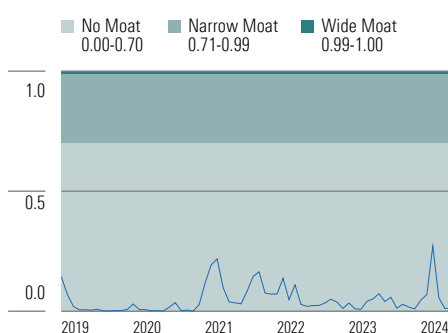
<sup>1</sup>The ESG Risk Rating Assessment is a representation of Sustainalytics' ESG Risk Rating. Lee Davidson, Chief Analytics Officer for Morningstar, Inc, oversees the methodology that supports Quantitative Fair Value Estimates and Quantitative Star Ratings. Mr. Davidson is guided by the Morningstar, Inc. Code of Ethics in carrying out his responsibilities. For information regarding Conflicts of Interests, visit <http://global.morningstar.com/equitydisclosures>.

## Key Metrics as of 3 May 2024

| Metrics                | Percentile in Sector |
|------------------------|----------------------|
| Earnings Yield (%)     | -4.0 49.0            |
| Sales Yield (%)        | 303.4 92.0           |
| Book Value Yield (%)   | 124.5 78.0           |
| Return on Assets (%)*  | -0.5 56.0            |
| Revenue(Mil)*          | 883.1 78.0           |
| Market Value (Mil)     | 388.5 70.0           |
| Enterprise Value (Bil) | 1.2 77.0             |
| EV/MV Ratio            | 3.0 96.0             |
| Volatility TTM (%)     | 36.5 37.0            |
| Drawdown TTM (%)       | 55.0 69.0            |
| Volume (Mil)           | 1.8 81.0             |

\*31 Dec 2023

## Economic Moat<sup>Q</sup> History as of 6 May 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<sup>Q</sup> as of 4 May 2024

Morningstar affirms a 3-star quantitative rating for Volcan Compania Minera. We calculate this outcome using the company's underlying model-driven valuation and uncertainty scores.

The stock's last closing price was 0.0780, a discount of 40.1% to its Quantitative Fair Value estimate of 0.13. This discount has ranged between 45.48% and 22.74% over the past year. The stock's price to fair value ratio is at the 22nd percentile in our global equity coverage universe for this methodology and at the 43rd percentile relative to its peers in the basic materials sector.

Volcan Compania Minera furthermore holds a Very High quantitative uncertainty rating.

The company's quantitative star rating dates to after 09/08/2023, before which it was 4-star. Similarly, the firm's uncertainty rating changed from High to Very High after 04/08/2024.

We examine the financials and market statistics for Volcan Compania Minera to determine these ratings. Its enterprise value-to-market value ratio is 2.98 and its annualized trailing 12-month volatility is 36.52%. These fall at the 93rd and 57th percentiles in the equity universe and at the 95th and 37th

in the basic materials sector, respectively.

## Economic Moat<sup>Q</sup> as of 6 May 2024

With a Morningstar quantitative moat rating of None, the quantitative moat score for Volcan Compania Minera falls below the 5th percentile in both the basic materials sector and equity coverage universe. The company has maintained its None quantitative moat rating for the last year.

We also assign a Moderate quantitative financial health rating to Volcan Compania Minera. The company's raw score on this metric, termed Distance to Default, ranks at the 13th percentile overall and in the basic materials sector. Furthermore, this financial health rating most recently changed from Strong after 11/02/2023.

Supporting these ratings are the company's book value yield and annualized trailing 12-month volatility. The book value yield of 124.51%, ranks at the 79th percentile in the covered equity universe and at the 78th percentile among its peers. Meanwhile, its annualized trailing 12-month volatility of 36.52%, falls at the 57th percentile in the universe and the 37th percentile in the basic materials sector.

## Fundamentals as of 4 May 2024


Volcan Compania Minera maintains breakeven earnings per share. The company further earns a return on invested capital of 7.53%. These values are calculated over a trailing 12-month period.

As of last market close, the company's price-to-free cash flow ratio is 4.71, falling at the 15th percentile in its sector and ranging between 3.05 and 20.04 over the past year.

## Contact

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# Volcan Compania Minera SAA Class B XVLB ★★★ Q 6 May 2024, 22:37 UTC

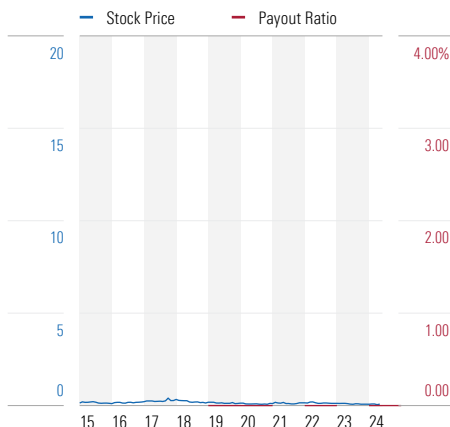
| Economic Moat <sup>Q</sup> | Uncertainty <sup>Q</sup> | Price/Fair Value <sup>Q</sup> | ESG Risk Rating Assessment <sup>1</sup>   | Trailing Dividend Yield % | Market Cap   | Investment Style | Sector          | Industry                         |
|----------------------------|--------------------------|-------------------------------|---|---------------------------|--------------|------------------|-----------------|----------------------------------|
| None                       | Very High                | 0.7                           |  | 2.93                      | 348.3172 Mil | Small Value      | Basic Materials | Other Industrial Metals & Mining |

## Earnings as of 3 May 2024

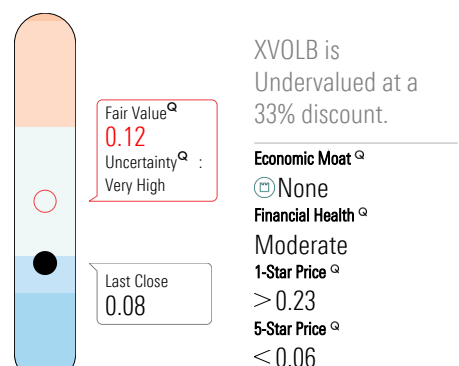
| Earnings           | %   | Percentile in Sector |
|--------------------|-----|----------------------|
| Dividend Yield*    | —   | —                    |
| Payout Ratio*      | —   | —                    |
| Price to Earnings  | —   | —                    |
| Price to Cash Flow | 4.7 | 15.0                 |
| ROIC**             | 7.5 | 81.0                 |

\*—  
\*\*31 Dec 2023

## Dividends as of 6 May 2024



## Valuation<sup>Q</sup> as of 6 May 2024



## Contact

<https://www.volcan.com.pe>

## Financials as of 6 May 2024 (Fiscal Year End 31 Dec 2022)

| 2014  | 2015    | 2016  | 2017    | 2018  | 2019   | 2020    | 2021  | 2022   | 2023  | YTD   | Fiscal                    |
|-------|---------|-------|---------|-------|--------|---------|-------|--------|-------|-------|---------------------------|
| 1,030 | 790     | 833   | 872     | 790   | 744    | 535     | 937   | 951    | 883   | 883   | Revenue (Mil)             |
| 154   | 31      | 156   | 192     | 141   | 42     | -39     | 196   | 77     | 72    | 72    | Operating Income (Mil)    |
| 14.96 | 3.87    | 18.7  | 22.01   | 17.91 | 5.66   | -7.25   | 20.95 | 8.07   | 8.14  | 8.14  | Operating Margin (%)      |
| 56.82 | -453.91 | 84.41 | -477.47 | 29.38 | -70.33 | -150.44 | 39.87 | -81.38 | -9.98 | -9.98 | Net Income (Mil)          |
| 0.02  | -0.12   | 0.02  | -0.12   | 0.01  | -0.02  | -0.04   | 0.01  | -0.02  | 0.00  | 0.00  | Diluted Earnings/Share    |
| 230   | 233     | 234   | 303     | 235   | 217    | 171     | 366   | 336    | 248   | 248   | Operating Cash Flow (Mil) |
| -414  | -162    | -114  | -217    | -195  | -171   | -117    | -175  | -290   | -180  | -180  | Capital Spending (Mil)    |
| -184  | 70      | 121   | 86      | 40    | 46     | 53      | 191   | 46     | 68    | 68    | Free Cash Flow (Mil)      |
| 3,866 | 3,859   | 3,859 | 3,858   | 3,858 | 3,858  | 3,858   | 3,858 | 3,858  | 3,858 | 3,858 | Avg Shares Outstand(Mil)  |

## Valuation as of 6 May 2024

| 2014 | 2015  | 2016 | 2017  | 2018 | 2019 | 2020 | 2021 | 2022  | 2023 | Current | Calendar                      |
|------|-------|------|-------|------|------|------|------|-------|------|---------|-------------------------------|
| 0.75 | 0.77  | 1.20 | 1.35  | 0.65 | 0.88 | 0.98 | 0.56 | 0.61  | 0.56 | 0.67    | Price/Fair Value <sup>Q</sup> |
| 0.82 | 0.60  | 0.99 | 1.44  | 0.74 | 0.70 | 1.01 | 0.76 | 0.50  | 0.36 | 0.37    | Price/Sales                   |
| 9.88 | 19.13 | —    | 13.54 | —    | —    | —    | —    | 21.32 | —    | —       | Price/Earnings                |
| 3.02 | 1.95  | 4.42 | 3.97  | 1.61 | 2.33 | 3.61 | 2.20 | 1.53  | 1.34 | 1.30    | Price/Cash Flow               |
| 0.59 | 0.34  | 0.70 | 1.05  | 0.95 | 0.80 | 1.12 | 1.51 | 1.10  | 0.89 | 0.89    | Price/Book                    |

## Operating Performance as of — (Fiscal Year End 31 Dec 2022)

| 2014 | 2015   | 2016 | 2017   | 2018 | 2019   | 2020   | 2021  | 2022   | 2023  | Q3   | Fiscal (%)              |
|------|--------|------|--------|------|--------|--------|-------|--------|-------|------|-------------------------|
| 1.92 | -16.36 | 3.22 | -19.2  | 1.3  | -3.2   | -7.09  | 1.88  | -3.93  | -0.52 | 0.05 | Return on Assets        |
| 3.83 | -36.05 | 7.85 | -55.32 | 4.69 | -11.54 | -30.46 | 9.13  | -19.56 | -2.7  | 0.26 | Return on Equity        |
| 3.55 | -22.73 | 6.15 | -30.84 | 4.38 | -3.8   | -22.25 | 18.54 | -10.89 | 7.53  | 2.98 | Rtn on Invested Capital |

## Dividends as of —

| 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 | Current | Calendar (%)            |
|------|------|------|------|------|------|------|------|------|------|---------|-------------------------|
| 0.01 | 0.01 | 0.01 | 0.03 | 0.01 | —    | —    | —    | —    | —    | —       | Dividend Per Share      |
| 3.27 | —    | —    | —    | 2.55 | —    | —    | —    | —    | —    | 2.93    | Trailing Dividend Yield |
| 0.02 | —    | —    | —    | —    | —    | —    | —    | —    | —    | 0.0     | Buyback Yield           |

# Appendix

| Economic Moat <sup>®</sup> History as of 6 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   | 0.05    | 0.07     | 0.27  | 0.06  | 0.01 | —    | —    | —      | —         | —       | —        | —        |
| 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

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.

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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

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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/](https://sustainalytics.com/esg-ratings/)

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