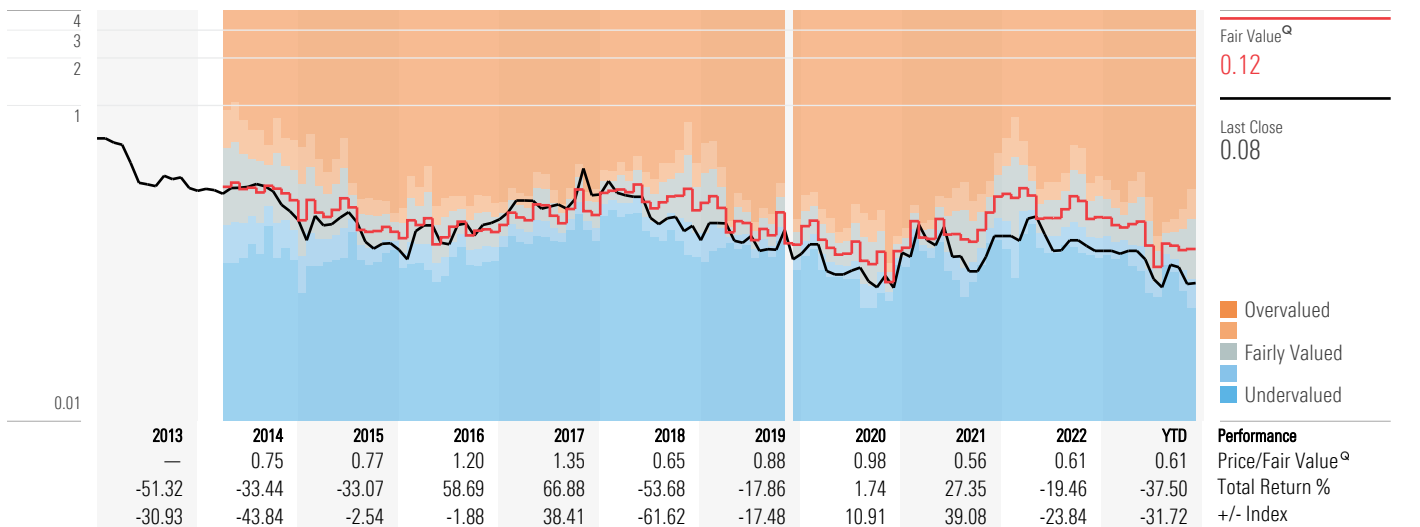


# Volcan Compania Minera SAA Class B XVLB ★★★ Q 29 Nov 2023, 23:40 UTC

<b>Economic Moat</b> <sup>Q</sup>	<b>Uncertainty</b> <sup>Q</sup>	<b>Price/Fair Value</b> <sup>Q</sup>	<b>ESG Risk Rating Assessment</b> <sup>1</sup>	<b>Trailing Dividend Yield %</b>	<b>Market Cap</b>	<b>Investment Style</b>	<b>Sector</b>	<b>Industry</b>
None	Extreme	0.6	1 Nov 2023 05:00, UTC	2.93	414.0048 Mil	Small Core	Basic Materials	Other Industrial Metals & Mining



As of 29 Nov 2023 | Index: Morningstar Peru GR PEN. Fair Value data as of 29 Nov 2023, 23:40 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 28 Nov 2023

Metrics	Value	Percentile in Sector
Earnings Yield (%)	-27.3	22.0
Sales Yield (%)	277.2	90.0
Book Value Yield (%)	111.8	71.0
Return on Assets (%)*	-4.5	47.0
Revenue(Mil)*	900.1	78.0
Market Value (Mil)	465.2	71.0
Enterprise Value (Bil)	1.2	78.0
EV/MV Ratio	2.7	95.0
Volatility TTM (%)	28.5	28.0
Drawdown TTM (%)	40.2	46.0
Volume (Mil)	1.1	75.0

\*30 Sep 2023

## 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 30 Nov 2023

Volcan Compania Minera achieves a 3-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 0.12, above the previous closing price of 0.0750. The stock has been trading between a 45.08% and 22.74% discount to its quantitative fair value over the past year. The stock's current valuation rating sits at the 33rd percentile in the coverage universe and 58th percentile in the basic materials sector (higher percentile indicates more undervalued). The quantitative uncertainty rating for Volcan Compania Minera is Extreme. Our quantitative star rating last differed from the current rating on 09/08/2023; the uncertainty rating last differed on 11/28/2023. The previous ratings were 4 and Very High, respectively. The main drivers of the company's valuation and uncertainty are its EV-MV ratio and earnings yield. The enterprise value-to-market value ratio of 2.65 falls at the 91st percentile in the equity universe and the 95th percentile in its sector. The earnings yield of -27.63% corresponds to the 15th percentile

overall and the 22nd percentile in the industry.

## Economic Moat <sup>Q</sup> as of 30 Nov 2023

Morningstar maintains a quantitative moat rating of None on the company. The firm's quantitative moat score of 0.03 sits at the 5th percentile in the basic materials sector. This is a decrease from 0.33, 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 22nd percentile in the universe and 23rd percentile in the sector. The significant drivers of these ratings are the company's book value yield and annualized trailing 12-month volatility. The book value yield for Volcan Compania Minera is 113.07%, and its annualized trailing 12-month volatility is 28.47%. They sit at the 74th and 43rd percentile in the global equity universe, respectively.

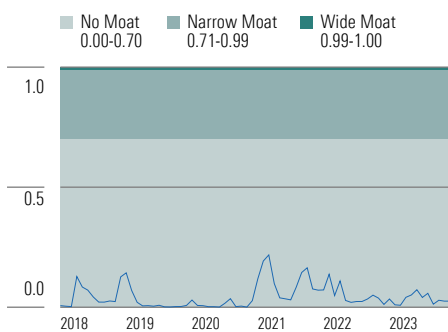
## Fundamentals as of 29 Nov 2023

Volcan Compania Minera reports losses per share of -0.02. Its return on invested capital is -4.12%. 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 6.59, falling at the 26th percentile in its sector and ranging between 3.21 and 20.04 over the past year.

## Contact

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 —  
<https://www.volcan.com.pe>

## Economic Moat <sup>Q</sup> History as of 30 Nov 2023



# Volcan Compania Minera SAA Class B XVLB ★★★

Q 29 Nov 2023, 23:40 UTC

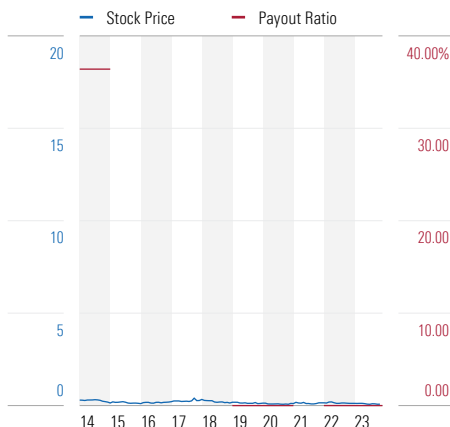
<b>Economic Moat</b> <sup>Q</sup>	<b>Uncertainty</b> <sup>Q</sup>	<b>Price/Fair Value</b> <sup>Q</sup>	<b>ESG Risk Rating Assessment</b> <sup>1</sup>	<b>Trailing Dividend Yield</b> %	<b>Market Cap</b>	<b>Investment Style</b>	<b>Sector</b>	<b>Industry</b>
None	Extreme	0.6	1 Nov 2023 05:00, UTC	2.93	414.0048 Mil	Small Core	Basic Materials	Other Industrial Metals & Mining

## Earnings as of 28 Nov 2023

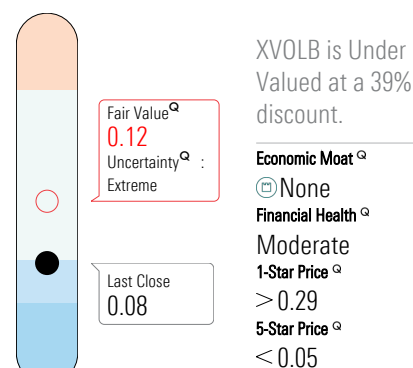
Earnings	%	■ Percentile in Sector
Dividend Yield*	—	—
Payout Ratio*	—	—
Price to Earnings	—	—
Price to Cash Flow	6.6	26.0
ROIC**	-4.1	46.0

\*—  
\*\*30 Sep 2023

## Dividends as of 29 Nov 2023



## Valuation <sup>Q</sup> as of 29 Nov 2023



**Economic Moat** <sup>Q</sup>  
None  
**Financial Health** <sup>Q</sup>  
Moderate  
**1-Star Price** <sup>Q</sup>  
> 0.29  
**5-Star Price** <sup>Q</sup>  
< 0.05

## Financials as of 29 Nov 2023 (Fiscal Year End 31 Dec 2022)

2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	YTD	Fiscal
1,040	1,030	790	833	872	790	744	535	937	951	664	Revenue (Mil)
144	154	31	156	192	141	42	-39	196	81	51	Operating Income (Mil)
13.81	14.96	3.87	18.7	22.01	17.91	5.66	-7.25	20.95	8.47	7.75	Operating Margin (%)
173	57	-454	84	-477	29	-70	-150	40	-81	-11	Net Income (Mil)
0.06	0.02	-0.12	0.02	-0.12	0.01	-0.02	-0.04	0.01	-0.02	0.00	Diluted Earnings/Share
273	230	233	234	303	235	217	171	366	265	163	Operating Cash Flow (Mil)
-563	-414	-162	-114	-217	-195	-171	-117	-175	-222	-120	Capital Spending (Mil)
-290	-184	70	121	86	40	46	53	191	43	42	Free Cash Flow (Mil)
2,917	3,866	3,859	3,859	3,858	3,858	3,858	3,858	3,858	3,858	3,858	Avg Shares Outstand(Mil)

## Valuation as of 29 Nov 2023

2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	Current	Calendar
—	0.75	0.77	1.20	1.35	0.65	0.88	0.98	0.56	0.61	0.61	Price/Fair Value <sup>Q</sup>
1.33	0.82	0.60	0.99	1.44	0.74	0.70	1.01	0.76	0.50	0.35	Price/Sales
8.04	9.88	19.13	—	13.54	—	—	—	—	21.32	—	Price/Earnings
6.21	3.02	1.95	4.42	3.97	1.61	2.33	3.61	2.20	1.53	1.32	Price/Cash Flow
1.04	0.59	0.34	0.70	1.05	0.95	0.80	1.12	1.51	1.10	0.88	Price/Book

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

2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	Q3	Fiscal (%)
6.24	1.92	-16.36	3.22	-19.2	1.3	-3.2	-7.09	1.88	-3.93	0.01	Return on Assets
12.16	3.83	-36.05	7.85	-55.32	4.69	-11.54	-30.46	9.13	-19.56	0.03	Return on Equity
8.79	3.55	-22.73	6.15	-30.84	4.38	-3.8	-22.25	18.54	-10.89	0.85	Rtn on Invested Capital

## Dividends as of —

2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	Current	Calendar (%)
0.04	0.01	0.01	0.01	0.03	0.01	—	—	—	—	—	Dividend Per Share
3.48	3.27	—	—	—	2.55	—	—	—	—	2.93	Trailing Dividend Yield
0.11	0.02	—	—	—	—	—	—	—	—	0.4	Buyback Yield

# Appendix

**Economic Moat** <sup>®</sup>History as of 30 Nov 2023 (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
2023	0.03	0.01	0.01	0.04	0.05	0.07	0.04	0.06	0.01	0.03	0.03	—
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
2018	0.01	0.00	0.00	0.13	0.08	0.07	0.04	0.02	0.02	0.03	0.02	0.13

## 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*

★★ – 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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Sustainalytics analyzes over 1,300 data points to assess a company's exposure to and management of ESG risks. In other words, ESG Risk Ratings measures a company's unmanaged ESG Risks represented as a quantitative score. Unmanaged Risk is measured on an open-ended scale starting at zero (no risk) with lower scores representing less unmanaged risk and, for 95% of cases, the unmanaged ESG Risk score is below 50.

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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