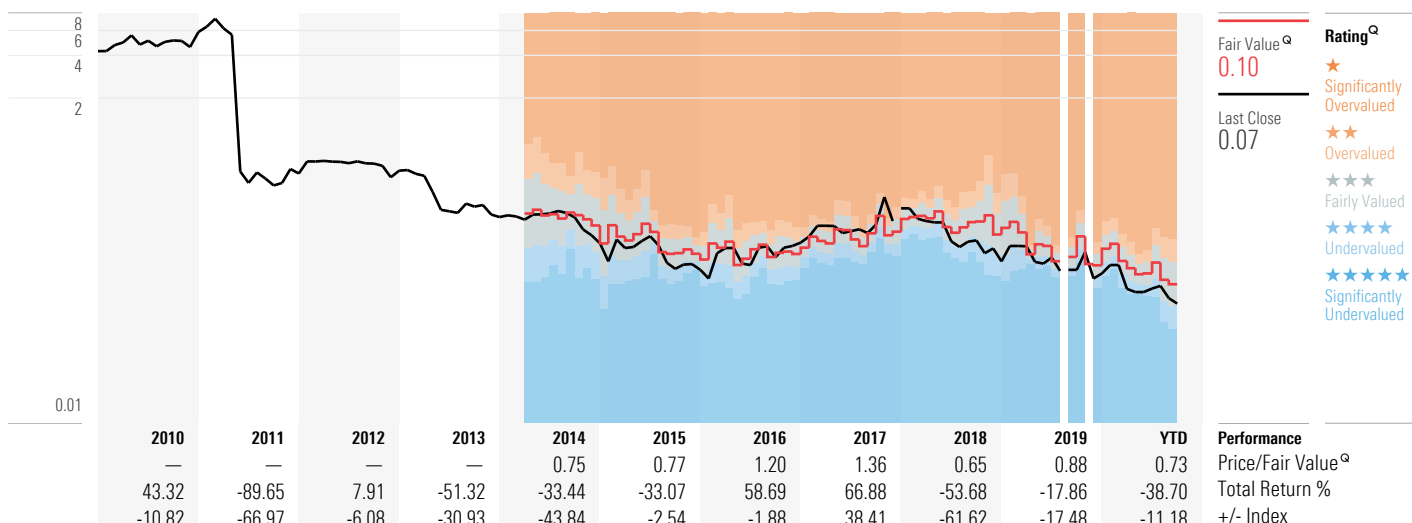


Volcan Compania Minera SAA Pfd Shs -B XVOLB ★★★ Q 25 Sep 2020, 22:28 UTC

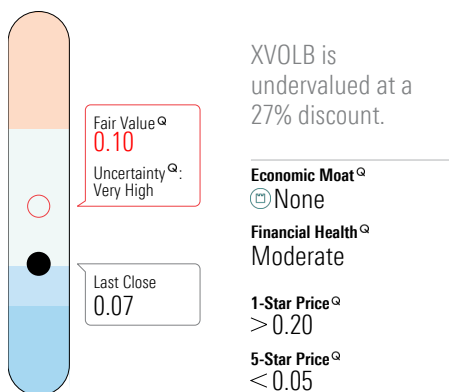
Economic Moat ^Q	Uncertainty ^Q	Price/Fair Value ^Q	Trailing Dividend Yield %	Market Cap	Investment Style	Sector	Industry
None	Very High	0.7	2.93	1.3359 Bil	Mid Core	Basic Materials	Other Industrial Metals & Mining



Total Return % as of 25 Sep 2020. Last Close as of 25 Sep 2020. Fair Value as of 25 Sep 2020, 22:28 UTC. Index: Morningstar Peru GR PEN.

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Valuation^Q as of 25 Sep 2020



Financials as of 25 Sep 2020 (Fiscal Year End 31 Dec 2019)

	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	YTD	Fiscal
Revenue (Mil)	981	1,240	1,148	1,035	1,030	799	828	870	797	738	167	Revenue (Mil)
Operating Income (Mil)	381	538	324	140	154	46	117	244	140	29	-87	Operating Income (Mil)
Operating Margin (%)	38.88	43.34	28.21	13.56	14.99	5.76	14.13	28.01	17.59	3.92	-51.97	Operating Margin (%)
Net Income (Mil)	253	329	211	173	57	-454	84	-477	29	-70	-77	Net Income (Mil)
Diluted Earnings/Share	0.08	0.09	0.06	0.06	0.02	-0.12	0.02	-0.12	0.01	-0.02	-0.02	Diluted Earnings/Share
Operating Cash Flow (Mil)	342	470	275	273	230	233	234	303	235	217	23	Operating Cash Flow (Mil)
Capital Spending (Mil)	-233	-267	-381	-563	-414	-162	-114	-217	-195	-171	-65	Capital Spending (Mil)
Free Cash Flow (Mil)	110	203	-106	-290	-184	70	121	86	40	46	-42	Free Cash Flow (Mil)
Avg Shares Outstand(Bil)	3	4	3	3	4	4	4	4	4	4	4	Avg Shares Outstand(Bil)
Dividend Per Share	0.06	0.12	0.06	0.04	0.01	—	—	0.03	0.01	—	—	Dividend Per Share

Valuation as of 25 Sep 2020

	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	Current	Calendar
Price/Fair Value ^Q	—	—	—	—	0.75	0.77	1.20	1.36	0.65	0.88	0.73	Price/Fair Value ^Q
Price/Sales	34.49	2.60	2.69	1.34	0.83	0.60	0.99	1.63	0.73	0.70	0.60	Price/Sales
Price/Earnings	134.88	8.66	14.51	8.04	9.88	19.13	—	15.42	—	—	33.43	Price/Earnings
Price/Cash Flow	89.14	9.18	11.92	6.21	3.02	1.95	4.42	4.53	1.61	2.33	2.99	Price/Cash Flow
Price/Book	34.35	2.48	2.29	1.04	0.59	0.34	0.74	1.20	0.95	0.80	0.65	Price/Book

Operating Performance as of — (Fiscal Year End 31 Dec 2019)

	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	Q3	Fiscal (%)
Return on Assets	19.41	19.75	9.53	6.24	1.92	-16.36	3.22	-19.2	1.3	-3.2	-2.16	Return on Assets
Return on Equity	27.86	28.42	16.13	12.16	3.83	-36.05	7.85	-55.32	4.69	-11.54	-8.98	Return on Equity
Rtn on Invested Capital	26.18	27.21	13.95	8.79	3.55	-22.73	6.15	-30.84	4.38	-3.8	-2.58	Rtn on Invested Capital

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

Business Description

Volcan Compania Minera SAA is a Peruvian mining company. All operations are located in the central mountains of the Peruvian Andes which include the operating units, 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.

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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.

One-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*

Two-Star - 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)*

Three-Star – 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)*

Four-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)*

Five-Star – 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.

Overvalued – Last Price is above Morningstar's quantitative fair value estimate.

This Report **has not been made available** to the issuer of the security prior to publication.

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