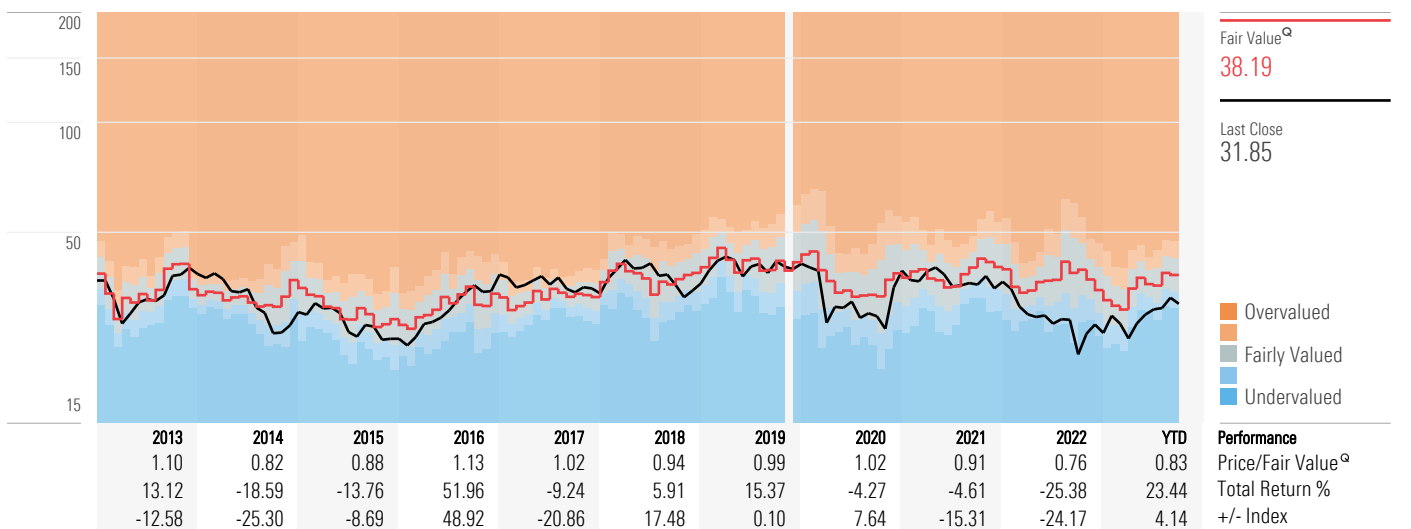


Construcciones y Auxiliar de Ferrocarriles SA CAF ★★★★★ 20 Sep 2023, 22:34 UTC

Economic Moat ^Q	Uncertainty ^Q	Price/Fair Value ^Q	ESG Risk Rating Assessment ¹	Trailing Dividend Yield %	Market Cap	Investment Style	Sector	Industry
None	High	0.8	6 Sep 2023 05:00, UTC	2.70	1.0870 Bil	Small Core	Industrials	Railroads



As of 20 Sep 2023 | Index: Morningstar Spain GR EUR. Fair Value data as of 20 Sep 2023, 22:34 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 19 Sep 2023

Metrics	Value	Percentile in Sector
Earnings Yield (%)	5.1	58.0
Sales Yield (%)	323.2	86.0
Book Value Yield (%)	74.2	62.0
Return on Assets (%)*	1.2	31.0
Revenue(Bil)*	3.8	79.0
Market Value (Bil)	1.2	66.0
Enterprise Value (Bil)	1.6	67.0
EVMV Ratio	1.4	71.0
Volatility TTM (%)	16.8	13.0
Drawdown TTM (%)	18.3	35.0
Volume (K)	49.4	33.0

*30 Jun 2023

Business Description

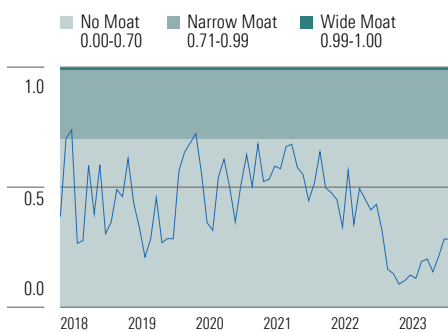
Construcciones y Auxiliar de Ferrocarriles SA is a Spain-based company that offers comprehensive railway solutions. The company's train-related products comprise high-speed rolling stock, wheelsets, traction and communication systems, signaling systems, and related services including vehicle maintenance, vehicle upgrading and refurbishment, and aftersales technical supports. In addition to supplying train-related products, the company also helps customers conduct viability studies, civil work, electrification projects, and system operation. The company operates under concession or turnkey models. Construcciones y Auxiliar de Ferrocarriles has a global presence, with Europe and Brazil being the two largest markets.

ized trailing 12-month volatility is 16.67%. These fall at the 72nd and 13th percentiles in the equity universe and at the 71st and 13th in the industrials sector, respectively.

Economic Moat ^Q as of 20 Sep 2023

Morningstar maintains a quantitative moat rating of None on the company. The firm's quantitative moat score of 0.28 sits at the 32nd percentile in the industrials sector. This is a decrease from 0.52, the maximum of its moat scores over the past year. The quantitative financial health rating for CAF is Moderate. Its financial health score, termed Distance to Default, sits at the 62nd percentile in both the universe and 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 CAF is 73.97%, and its enterprise value-to-market value ratio is 1.36. They sit at the 58th and 72nd percentile in the global equity universe, respectively.

Economic Moat ^Q History as of 20 Sep 2023



Valuation ^Q as of 21 Sep 2023

Morningstar affirms a 4-star quantitative rating for CAF. We calculate this outcome using the company's underlying model-driven valuation and uncertainty scores. The stock's last closing price was 31.85, a discount of 16.61% to its Quantitative Fair Value estimate of 38.19. This discount has ranged between 40.43% and 5.54% over the past year. The stock's price to fair value ratio is at the 73rd percentile in our global equity coverage universe for this methodology and at the 60th percentile relative to its peers in the industrials sector. CAF furthermore holds a High quantitative uncertainty rating.

Fundamentals as of 20 Sep 2023

CAF maintains earnings per share of 1.63. The company further earns a return on invested capital of 5.24%. The shares offer a dividend yield of 2.6%. These values are calculated over a trailing 12-month period. As of last market close, CAF has a price-to-earnings ratio of 19.49, falling below the 57th percentile in its sector (where a lower percentile means a lower ratio) and ranging between 10.16 and 21.35 over the past year.


The company's quantitative star rating dates to after 06/14/2023, before which it was 5-star. Similarly, the firm's uncertainty rating changed from Very High to High after 04/10/2023.

We examine the financials and market statistics for CAF to determine these ratings. Its enterprise value-to-market value ratio is 1.36 and its annual-

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Construcciones y Auxiliar de Ferrocarriles SA CAF ★★★★★ Q 20 Sep 2023, 22:34 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	High	0.8	 6 Sep 2023 05:00, UTC	2.70	1.0870 Bil	Small Core	Industrials	Railroads

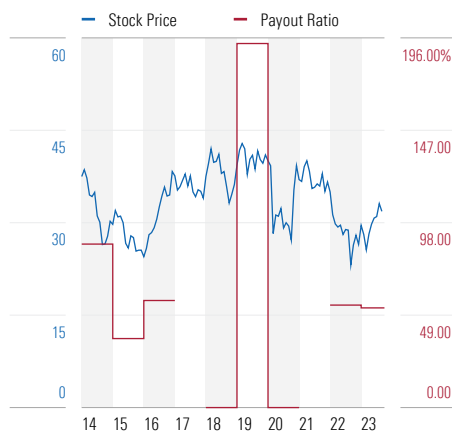
Earnings as of 19 Sep 2023

Earnings	%	Percentile in Sector
Dividend Yield*	2.6	52.0
Payout Ratio*	52.9	72.0
Price to Earnings	19.5	57.0
Price to Cash Flow	—	—
ROIC**	5.2	43.0

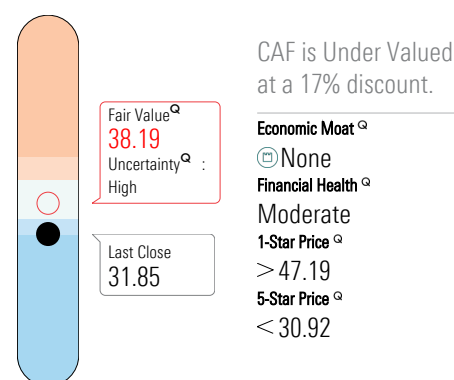
*31 Aug 2023

**30 Jun 2023

Dividends as of 20 Sep 2023



Valuation ^Q as of 20 Sep 2023



Economic Moat ^Q

None

Financial Health ^Q

Moderate

1-Star Price ^Q

> 47.19

5-Star Price ^Q

< 30.92

Financials as of 20 Sep 2023 (Fiscal Year End 31 Dec 2019)

2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	YTD	Fiscal
1,535	1,447	1,284	1,318	1,477	2,048	2,598	2,762	2,943	3,165	1,877	Revenue (Mil)
180	104	128	101	146	155	125	112	168	137	85	Operating Income (Mil)
11.75	7.19	9.94	7.63	9.86	7.55	4.82	4.05	5.7	4.32	4.53	Operating Margin (%)
90.18	59.68	41.04	35.01	42.41	43.46	24.75	9.01	85.92	52.19	34.41	Net Income (Mil)
2.63	1.74	1.20	1.02	1.24	1.27	0.72	0.26	2.51	1.52	1.01	Diluted Earnings/Share
-43	62	96	335	165	389	129	177	154	111	-33	Operating Cash Flow (Mil)
-49	-24	-19	-27	-51	-91	-72	-49	-45	-78	-27	Capital Spending (Mil)
-93	38	76	308	114	299	57	128	109	33	-60	Free Cash Flow (Mil)
34	34	34	34	34	34	34	35	34	34	34	Avg Shares Outstand(Mil)

Valuation as of 20 Sep 2023

2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	Current	Calendar
1.10	0.82	0.88	1.13	1.02	0.94	0.99	1.02	0.91	0.76	0.83	Price/Fair Value ^Q
0.84	0.69	0.64	—	—	0.69	0.55	0.53	0.42	0.29	0.31	Price/Sales
15.08	12.48	17.80	41.42	31.78	27.27	103.83	—	14.44	14.40	19.55	Price/Earnings
—	—	8.17	3.94	6.94	6.20	4.49	8.69	5.33	7.51	23.53	Price/Cash Flow
1.88	1.41	1.19	1.78	1.56	1.71	1.97	2.23	1.82	1.19	1.35	Price/Book

Operating Performance as of 20 Sep 2023 (Fiscal Year End 31 Dec 2019)

2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	Q3	Fiscal (%)
3.29	2.07	1.41	1.15	1.34	1.22	0.59	0.21	2.06	1.14	0.37	Return on Assets
12.69	8.2	5.7	4.75	5.57	5.79	3.33	1.32	12.64	6.95	2.34	Return on Equity
8.6	5.87	4.68	4.67	5.5	5.37	3.64	2.27	6.48	4.78	1.46	Rtn on Invested Capital

Dividends as of 20 Sep 2023

2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	Current	Calendar (%)
1.05	1.05	0.53	0.53	—	—	0.77	—	—	1.00	0.86	Dividend Per Share
2.73	3.47	2.05	1.37	—	—	1.87	—	—	3.77	2.7	Trailing Dividend Yield
—	—	—	—	—	0.22	0.03	—	—	—	0.13	Buyback Yield

Appendix

Economic Moat [®]History as of 20 Sep 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	0.10	0.11	0.13	0.12	0.19	0.20	0.15	0.21	0.28	—	—	—
2022	0.48	0.45	0.33	0.57	0.35	0.49	0.45	0.41	0.43	0.32	0.16	0.14
2021	0.52	0.53	0.59	0.58	0.67	0.68	0.58	0.55	0.44	0.52	0.65	0.50
2020	0.72	0.56	0.35	0.32	0.54	0.62	0.50	0.36	0.51	0.64	0.50	0.68
2019	0.62	0.43	0.33	0.21	0.28	0.46	0.27	0.29	0.29	0.57	0.65	0.68
2018	0.38	0.70	0.74	0.27	0.28	0.59	0.39	0.59	0.31	0.35	0.49	0.46

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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.

Overvalued – Last Price is above 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/

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