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Python

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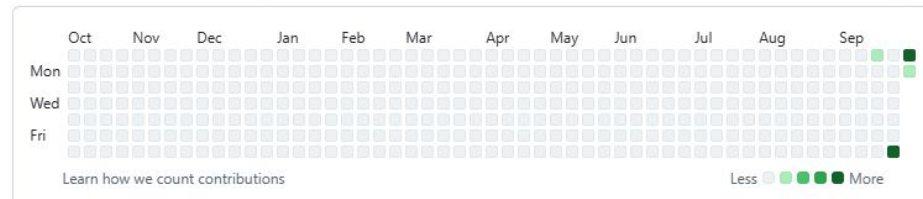
This script is useful for investors or analysts looking to screen stocks based on fundamental and technical factors.

Python

130 contributions in the last year

Contribution settings

2025





amare-capital-management output

d3faa3d · 2 days ago History

Preview Code Blame 441 lines (441 loc) · 68.6 KB



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	Date	Open	High	Low	Close	Volume	ma_200	tr	atr_14	is_hammer	is_shooting_star	feature_basic	feature_advanced
1	2024-01-02	16143.027707249941	16390.598721497547	16091.117655875445	16137.0380859375	1018460				False	False	False	False
2	2024-01-03	16061.1695153041	16139.03459220097	15707.781858618313	15748.7109375	1707886		299.4810656221016		False	False	False	False
3	2024-01-04	15723.753324906476	16001.27242999974	15637.90209095676	15660.8623046875	1741905		431.2527335826562		False	False	False	False
4	2024-01-05	15573.015431195417	15776.662556064897	15544.065594816913	15774.666015625	1392939		363.37033904298005		False	False	False	False
5	2024-01-08	15672.84157097976	15866.505982748553	15642.893466067058	15708.779296875	1837000		232.59696124798393		False	False	False	False
6	2024-01-09	15772.669348508634	16032.219603610676	15767.67799744898	15897.453125	2137854		223.61251668149453		False	False	False	False
7	2024-01-10	15960.344826941839	15993.287745336202	15806.611207768143	15859.51953125	1178889		323.44030673567613		False	False	False	False
8	2024-01-11	15854.527859045635	16153.010659061669	15875.49153396315	16149.017578125	2038843		186.67653756805885		False	False	False	False
9	2024-01-12	16148.018544430624	16252.8369140625	15961.342019467189	16252.8369140625	2219776		293.4911278116688		False	False	False	False
10	2024-01-15	16108.08706562873	16127.054198390688	15733.735761116412	15893.458984375	2372791		291.49489459531105		False	False	False	False
11	2024-01-16	15852.530287428368	15877.487041659206	15624.924688843124	15677.8330078125	1604103		519.1011529460884		False	False	False	False
12	2024-01-17	15573.014942354368	15639.899044991404	15400.314199724413	15423.2744140625	2782429		268.5342955318756		False	False	False	False
13	2024-01-18	15503.137090595432	15725.751357897607	15475.18552340054	15614.943359375	1769091		277.5188080880871		False	False	False	False
14	2024-01-19	15627.91963885848	15997.279604772095	15543.066673716163	15672.841796875	2437169		302.4769438351068		False	False	False	False
15	2024-01-22	15771.67128573601	15770.673015510949	15510.124486770073	15590.984375	2260728		454.21293105593213	319.0900438817872	False	False	False	False

**Absa Group Limited (Ticker: ABG.JO)**, a Financial Services company, has a stock price of **R188.85**. Its valuation metrics include a P/E ratio of **7.0**, P/B of 94.0, P/S of **2.0**, EV/EBITDA of 294.5, and EV/GP of **2.0**. The stock's momentum shows returns of **2.12%** (1 month), **6.32%** (3 months), **8.83%** (6 months), and **11.05%** (12 months). Relative to peers, it ranks in the **13.7th** percentile for P/E, **22.2th** for P/B, **48.8th** for P/S, **91.1th** for EV/EBITDA, and **16.9th** for EV/GP. Momentum percentiles are **49.2** (1M), **71.8** (3M), 50.0 (6M), and **59.7** (12M). Its value score is 38.5, ranking 43rd, and momentum score is **57.7**, ranking 47th.

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## DCF Analysis for ABG.JO - Absa Group Limited

Sector: Financial Services

Industry: Banks - Regional

Country: South Africa

Website: <https://www.absa.africa>

Description: Absa Group Limited, together with its subsidiaries, provides retail and business banking, corporate and investment banking, insurance, financial, and wealth management products and services in South Africa and internationally. The company offers life

FCFF: R115,697,000,000.00

WACC: 25.00%

ROIC: 0.00%

Excess Returns: 0.00%

Future FCFF: ['R121,481,850,000.00', 'R127,555,942,500.00', 'R133,933,739,625.00', 'R140,630,426,606.25', 'R147,661,947,936.56']

PV of FCFF: ['R97,185,480,000.00', 'R81,635,803,200.00', 'R68,574,074,688.00', 'R57,602,222,737.92', 'R48,385,867,099.85']

Terminal Value: R691,326,392,612.09

PV of Terminal Value: R226,533,832,331.13

Market Equity Value: R468,493,280,056.90

Fair Value Per Share: R564.92

Current Price: R188.85

Upside: 199.14%

Margin of Safety: 66.57%

Valuation: Undervalued

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The Discounted Cash Flow (DCF) analysis for Absa Group Limited (ABG.JO) indicates the following:

- **Sector/Industry:** Financial Services, Banks - Regional, based in South Africa.
- **Free Cash Flow to Firm (FCFF):** Current FCFF is R115.697 billion, with projected future FCFF increasing annually to R147.662 billion over five years.
- **Weighted Average Cost of Capital (WACC):** 25%, reflecting a high discount rate, likely due to risk factors in the financial sector or South African market.
- **Return on Invested Capital (ROIC) and Excess Returns:** Both 0%, suggesting the company is not generating returns above its cost of capital.
- **Present Value (PV) of FCFF:** Ranges from R97.185 billion (year 1) to R48.386 billion (year 5), discounting future cash flows at the WACC.
- **Terminal Value:** R691.326 billion, with a PV of R226.534 billion, indicating significant long-term cash flow expectations.
- **Market Equity Value:** R468.493 billion, derived from the sum of PV of FCFF and PV of terminal value.
- **Fair Value Per Share:** R564.92, based on the market equity value.
- **Current Price:** R188.85, significantly below the fair value.
- **Upside:** 199.14%, suggesting potential for substantial price growth.
- **Margin of Safety:** 66.57%, indicating a strong buffer for undervaluation.
- **Valuation:** Undervalued, implying the stock is trading at a discount relative to its intrinsic value.

This analysis suggests ABG.JO may be an attractive investment opportunity, though the high WACC and zero ROIC/excess returns warrant caution, possibly due to economic or operational risks.

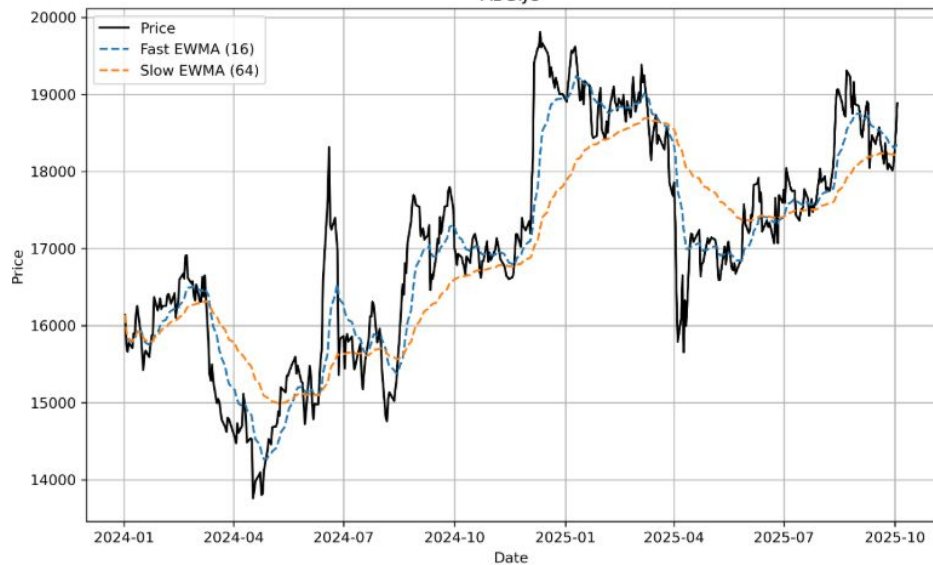
Ticker	f1	f2	f3	
	ABG.JO	-0.00011004254725236929	9.714523638412564e-05	0.10073675628201666

The principal component analysis (PCA) results for Absa Group Limited (ABG.JO) show how the stock's data aligns with three key factors (f1, f2, f3) derived from a larger dataset, likely representing different patterns or trends in the data (e.g., market movements, sector performance, or financial metrics). Here's a breakdown:

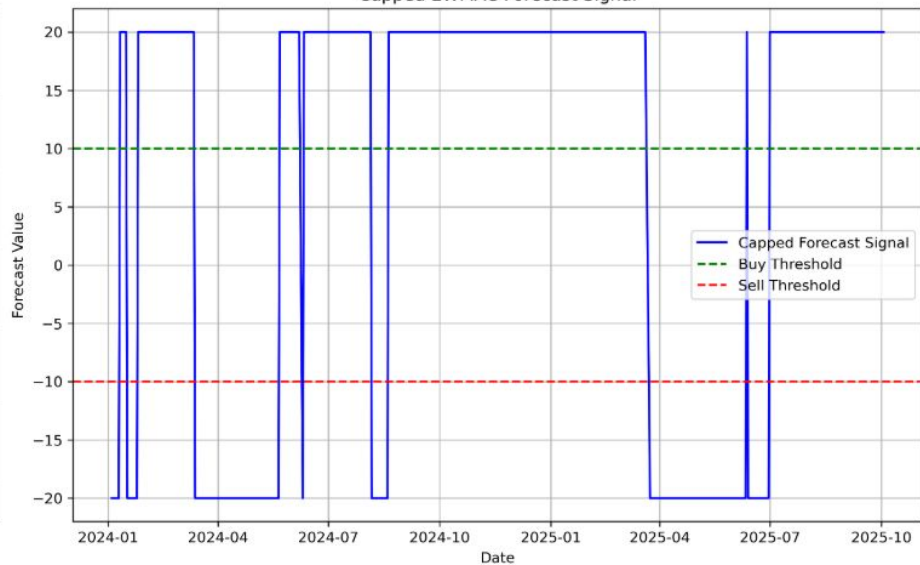
- **f1 (-0.00011):** The very small negative value suggests ABG.JO has almost no relationship with the first principal component, meaning this factor (which might represent a major market trend or common variance) has little influence on the stock's behavior.
- **f2 (0.000097):** Similarly, the near-zero positive value indicates a negligible connection to the second component, suggesting this factor (possibly another market or sector dynamic) also has minimal impact on ABG.JO.
- **f3 (0.1007):** The larger positive value shows a stronger association with the third component, meaning this factor (which could reflect a specific trend, like financial sector performance or valuation metrics) explains more of ABG.JO's variability compared to f1 and f2.

In simple terms, ABG.JO's stock behavior is most influenced by the trend or pattern captured by the third principal component (f3), while the first two components (f1 and f2) have little effect. Without more context about what f1, f2, and f3 represent (e.g., growth, value, volatility), the exact meaning is unclear, but f3 likely reflects a key driver of ABG.JO's performance in the analyzed dataset.

EWMAC Crossover  
ABGJO



Capped EWMAC Forecast Signal





The chart provides an analysis of Absa Group Limited (ABG.JO) stock price using an Exponential Weighted Moving Average Crossover (EWMAC) strategy, with data spanning from early 2024 to late 2025.

### Left Chart: EWMAC Crossover

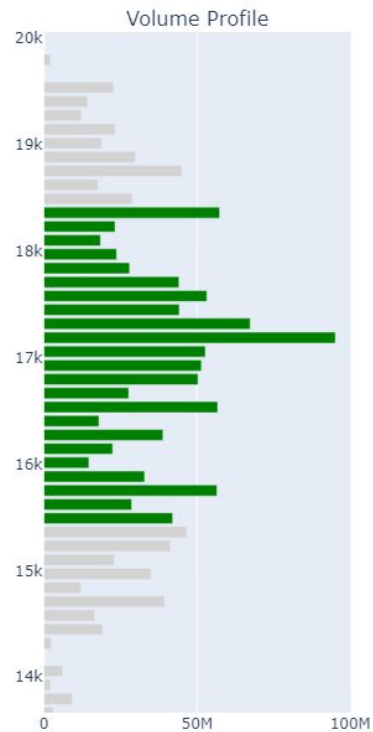
- **Price (black line):** Shows the stock's daily price, fluctuating between approximately 15,000 and 20,000 over the period.
- **Fast EWMA (16) (blue dashed line):** A 16-day exponential moving average, which reacts more quickly to price changes.
- **Slow EWMA (64) (orange dashed line):** A 64-day exponential moving average, which smooths out shorter-term fluctuations.
- **Interpretation:** The crossover of the fast and slow EWMA lines is used to generate trading signals. When the fast EWMA crosses above the slow EWMA, it may indicate a buy signal (e.g., around mid-2024), while a cross below may suggest a sell signal (e.g., late 2024).

### Right Chart: Capped EWMAC Forecast Signal

- **Capped Forecast Signal (blue line):** Represents the trading signal derived from the EWMA crossover, capped between -20 and 20. Positive values suggest a buy signal, while negative values indicate a sell signal.
- **Buy Threshold (green line at 5):** When the signal exceeds this level, it confirms a strong buy recommendation.
- **Sell Threshold (red line at -10):** When the signal drops below this level, it confirms a strong sell recommendation.
- **Interpretation:** The signal remains positive and above the buy threshold (5) for extended periods (e.g., mid-2024 to mid-2025), indicating a sustained buy recommendation. It drops below the sell threshold (-10) around late 2024, suggesting a sell signal during that time.

### Overall Insight

The charts suggest that ABG.JO experienced bullish conditions for much of 2024 and 2025, with the EWMA crossover and forecast signal supporting buy recommendations. However, a notable downturn around late 2024 triggered a sell signal, reflecting a potential shift in momentum. As of October 06, 2025, the signal appears to be recovering toward neutral or buy territory.



### Price Profile (Left Panel)

- **Description:** Displays the distribution of trading prices, with horizontal bars indicating the frequency of trades at various price levels (in South African Rand, ZAR).
- **Analysis:** The price range spans from approximately 14k to 20k ZAR. The highest concentration of trading activity (longest bars) occurs around 17k to 18k ZAR, suggesting this is a key support/resistance zone where the stock has spent significant time. The distribution is relatively broad, indicating volatility, with notable activity also around 19k ZAR.

### Volume Profile (Middle Panel)

- **Description:** Shows the volume traded at different price levels, with green bars highlighting high-volume nodes and gray bars indicating lower volumes.
- **Analysis:** The highest volume is concentrated between 17k and 18k ZAR, aligning with the price profile's key zone. This suggests strong market interest or liquidity at these levels, potentially acting as a significant support or resistance area. The green bars indicate periods of high trading activity, while the gray bars show less activity at higher (19k-20k) and lower (15k-16k) price levels.

### Candlestick Chart (Right Panel)

- **Description:** Displays the stock's price movement from January 2024 to October 2025, with green candlesticks for upward days and red for downward days.
- **Analysis:**
  - The stock experienced a significant upward trend from early 2024 to mid-2024, peaking around 19k-20k ZAR.
  - A sharp decline followed in mid-2024, dropping to around 16k ZAR by late 2024.
  - Recovery began in early 2025, with the price climbing back toward 18k-19k ZAR by mid-2025, though it remains volatile.
  - As of October 06, 2025 (7:25 PM SAST), the price appears to be near 18k ZAR, showing a recent upward movement.
  - The volatility and large candlestick ranges suggest active trading and potential market reactions to news or economic factors.

### Overall Insight

The charts collectively indicate that ABG.JO has a key trading range of 17k-18k ZAR, supported by high volume and price concentration. The candlestick chart reflects a volatile period with a notable peak and correction in 2024, followed by a recovery in 2025. The current price near 18k ZAR aligns with a high-volume node, suggesting potential stability or a decision point for future movement. Investors might watch for a breakout above 19k or a drop below 17k for directional signals.

# ABG.JO Daily with Anchored VWAPs

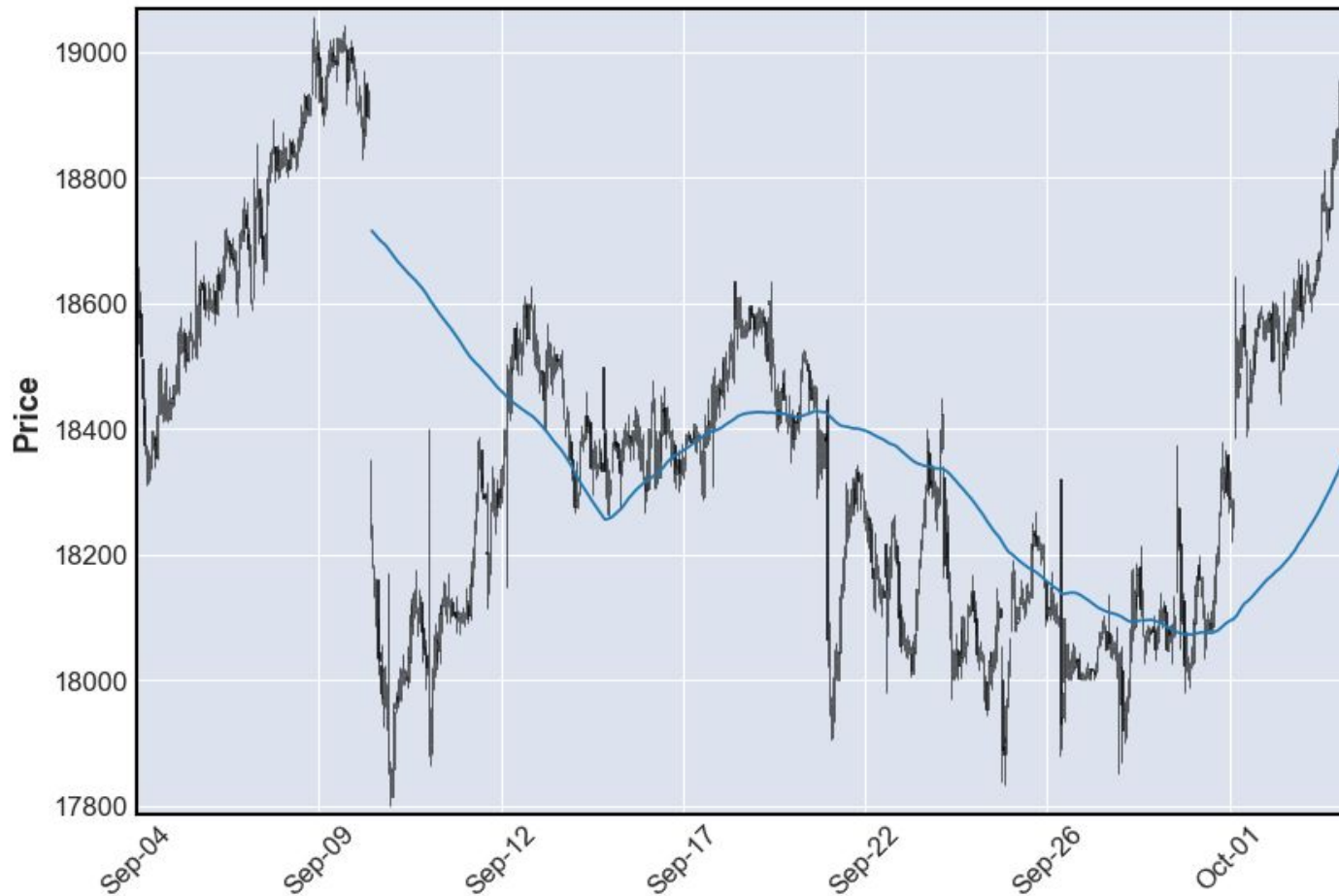


Absa Group Limited (ABG.JO), a South African financial services stock, covering the period from January 2025 to September 2025. The chart overlays Anchored Volume Weighted Average Prices (VWAPs), which are VWAP calculations starting from specific "anchor" points (e.g., significant highs, lows, or events) rather than the full session. VWAP represents the average price a stock has traded at throughout the period, weighted by volume, and is often used by traders to gauge value, support/resistance levels, and trend strength. Here's a breakdown and analysis:

## Key Chart Elements

- **Candlesticks (Red and Green Bars):** These show daily price action, including open, high, low, and close prices.
  - **Green Candles:** Indicate bullish days where the closing price was higher than the opening price.
  - **Red Candles:** Indicate bearish days where the closing price was lower than the opening price.
  - The wicks (thin lines above/below the body) represent the day's high and low prices.
- **Anchored VWAP Lines:** Multiple lines are plotted, likely anchored at different key points in the stock's history.
  - **Purple Line:** Appears to be a higher-anchored VWAP, starting around 19,000-20,000 in early 2025 and trending gradually downward. This could represent resistance, as the price struggled to break above it during recoveries.
  - **Green Line:** A lower-anchored VWAP, starting from the mid-2025 low around 16,000 and trending upward. This seems to act as dynamic support, with the price bouncing off it during the uptrend.

ABG.JO, interval 15m, MA last 18371.13



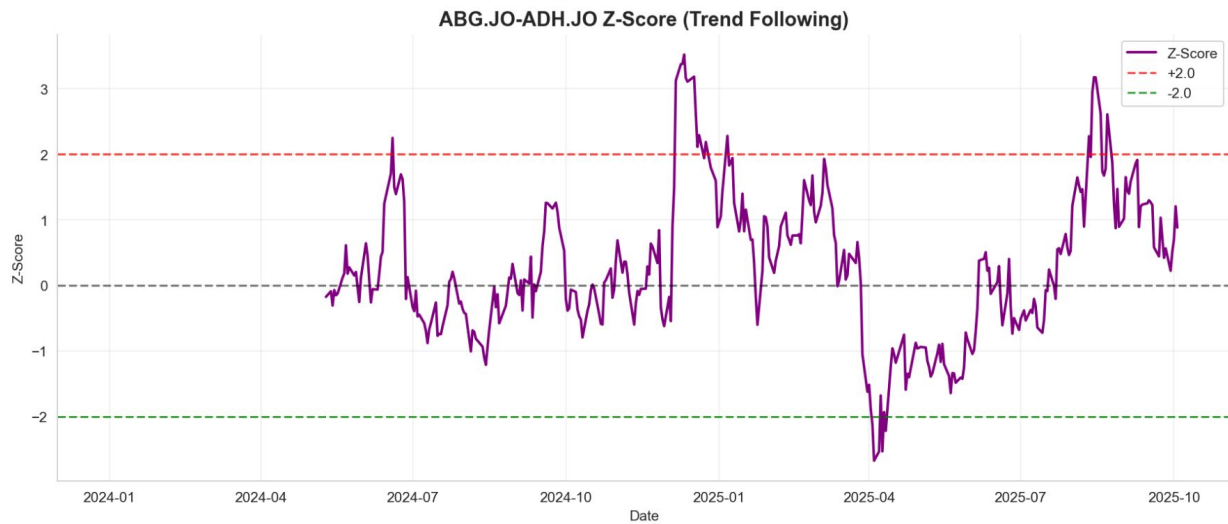
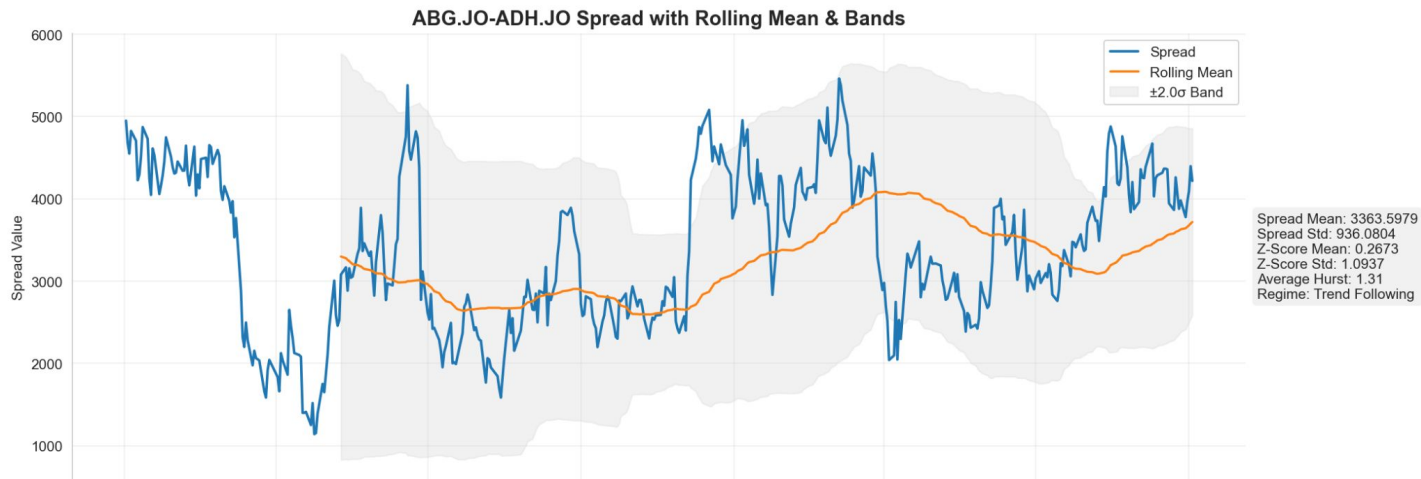
The chart shows **Absa Group (ABG.JO)** on a 15-minute interval.

- **Early September:** The stock climbed strongly to just under 19,000.
- **Mid-September:** It dropped back to around 18,000 with lots of volatility.
- **Late September:** The price moved sideways, stuck between 18,200 and 18,500.
- **Early October:** It broke out of that range and climbed again toward 19,000.

The **moving average** line shows the overall trend:

- Sloping down during the mid-September fall,
- Flattening during the sideways phase,
- Turning upward again with the recent breakout.

**Takeaway:** The stock looks bullish right now after a period of consolidation. If it stays above 18,800–19,000, the rally could continue. But if it fails, it may fall back toward 18,200.





## Top Chart: Spread with Rolling Mean & Bands

- **Blue Line (Spread):** The price difference between ABG.JO and ADH.JO.
- **Orange Line (Rolling Mean):** The average spread over time, used as a baseline.
- **Grey Band ( $\pm 2$  Standard Deviations):** Upper and lower limits showing when the spread is unusually wide or tight.

### What it shows:

- The spread moves around the rolling mean but has frequent swings outside the bands.
- Current spread  $\approx$  **3363**, with historical mean around **3363** too — so it's trading near fair value now.
- Past spikes above 5000 or drops near 1500 show opportunities where the spread was “stretched.”

## Bottom Chart: Z-Score (Standardized Spread)

- **Purple Line:** The Z-score of the spread (how many standard deviations away from the mean).
- **Red line (+2.0):** Overbought threshold (spread unusually high)
- **Green line (-2.0):** Oversold threshold (spread unusually low).
- **Grey line (0):** Neutral zone.

### What it shows:

- Most of the time, Z-score oscillates between  $-2$  and  $+2$ , showing mean-reverting behavior.
- Peaks above **+2** suggest the spread is “too wide”  $\rightarrow$  potential short ABG / long ADH opportunity.
- Dips below **-2** suggest the spread is “too tight”  $\rightarrow$  potential long ABG / short ADH opportunity.
- Right now, Z-score  $\approx$  **+0.27**  $\rightarrow$  very close to neutral  $\rightarrow$  no strong trade signal.

## Stats on the Side

- **Spread Mean:** 3363
- **Spread Std Dev:** 936
- **Z-Score Mean:** ~0.27 (centered near normal)
- **Z-Score Std Dev:** ~1.09 (fair volatility)
- **Average Hurst:** 1.31 → indicates some **trend-following tendency**, not purely mean-reverting.
- **Regime:** Trend Following (market shows some persistence in direction).

## Summary

This chart compares **ABG.JO** and **ADH.JO** through spread and Z-score analysis.

- The spread usually oscillates around 3,300, but with swings up to 5,000 or down to 1,500. The Z-score confirms these swings, with trade signals when it crosses +2 or -2.
- Right now, the spread and Z-score are both near normal levels, meaning **no clear trading edge** at this moment.
- Historically, the pair has shown both mean-reversion and trend-following phases — so it may require adaptive strategy.

ABG.JO.

### **Backtest Results (2024-01-02 → 2025-10-03, ~640 days)**

- **Strategy Tested:** No trades were taken (0 trades executed), so the backtest strategy return = **0%**.
  - **Buy & Hold Return: +17.03%** over the same period.
- **Annualized Return (Buy & Hold):** Roughly **+10–11% per year** (since 640 days ~ 1.75 years).

### **Key Takeaway**

If you had simply **bought and held ABG.JO**, you would have made about **17% return** over the period.

The tested strategy **did not trade at all**, so it underperformed compared to buy & hold.