

The image features three glass jars with metal lids, each containing a different amount of money. The first jar on the left contains a one-dollar bill and several coins. The middle jar contains a twenty-dollar bill and several coins. The third jar on the right contains a ten-dollar bill and several coins. The jars are set against a dark brown background. The text 'Blue Line Capital' is overlaid in white, with 'Blue' underlined. Below it, the text 'The State Of American Business' and 'Industrials, Defense & Semiconductors' is also in white. At the bottom, the words 'PAY', 'SAVE', and 'INVEST' are written in a dark, bold font, corresponding to the three jars. There are also some loose coins scattered around the jars.

Blue Line Capital

The State Of American Business
Industrials, Defense & Semiconductors

PAY

SAVE

INVEST



Economic Dynamics

PCE & Oil Data

PAY

SAVE

INVEST

PCE Table

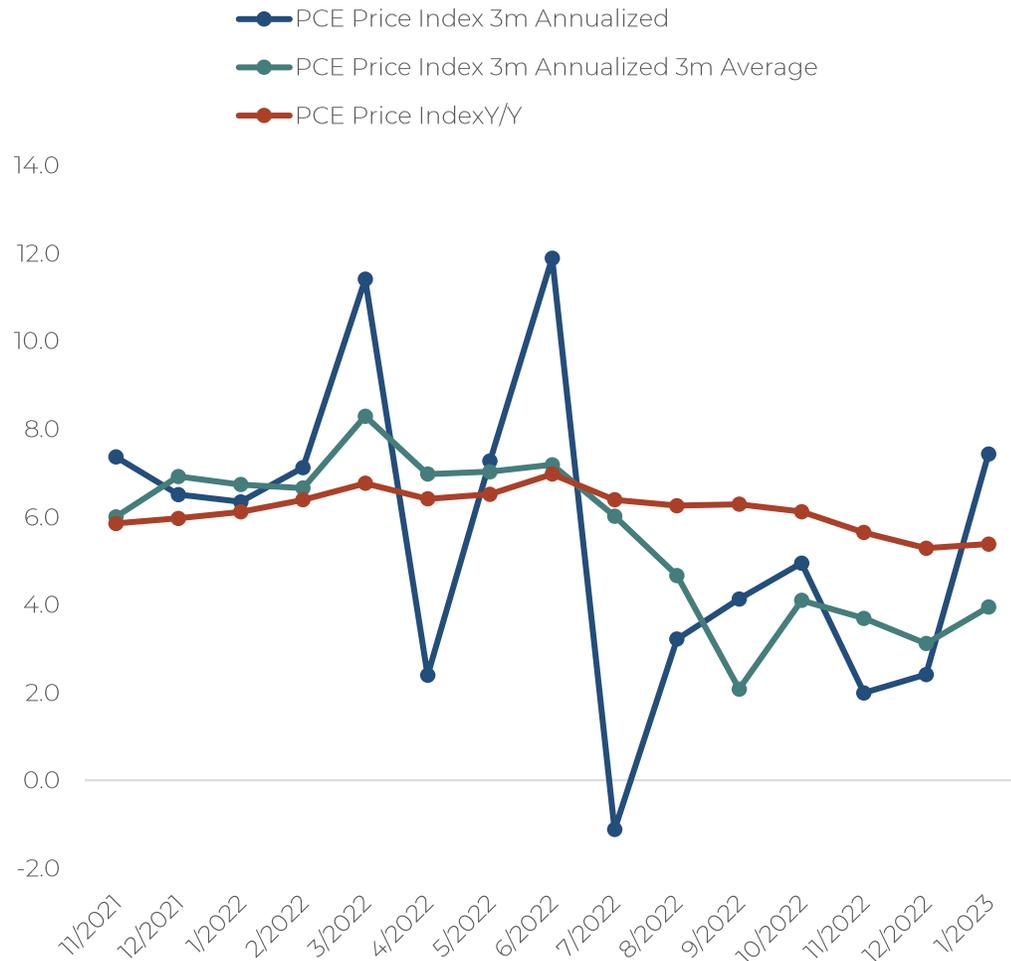
	2022				2023
	Sept.	Oct.	Nov.	Dec.	Jan.
	Percent change from preceding month				
Personal income:					
Current dollars	0.5	0.9	0.4	0.3	0.6
Disposable personal income:					
Current dollars	0.5	1.1	0.5	0.4	2.0
Chained (2012) dollars	0.1	0.7	0.3	0.2	1.4
Personal consumption expenditures (PCE):					
Current dollars	0.6	0.7	-0.2	-0.1	1.8
Chained (2012) dollars	0.3	0.3	-0.3	-0.3	1.1
Price indexes:					
PCE	0.3	0.4	0.2	0.2	0.6
PCE, excluding food and energy	0.5	0.3	0.2	0.4	0.6
Price indexes: Percent change from month one year ago					
PCE	6.3	6.1	5.6	5.3	5.4
PCE, excluding food and energy	5.2	5.1	4.8	4.6	4.7

Sources: BEA, Blue Line Capital, Blue Line Futures

2/25/2023

Headline & Core PCE Deflators

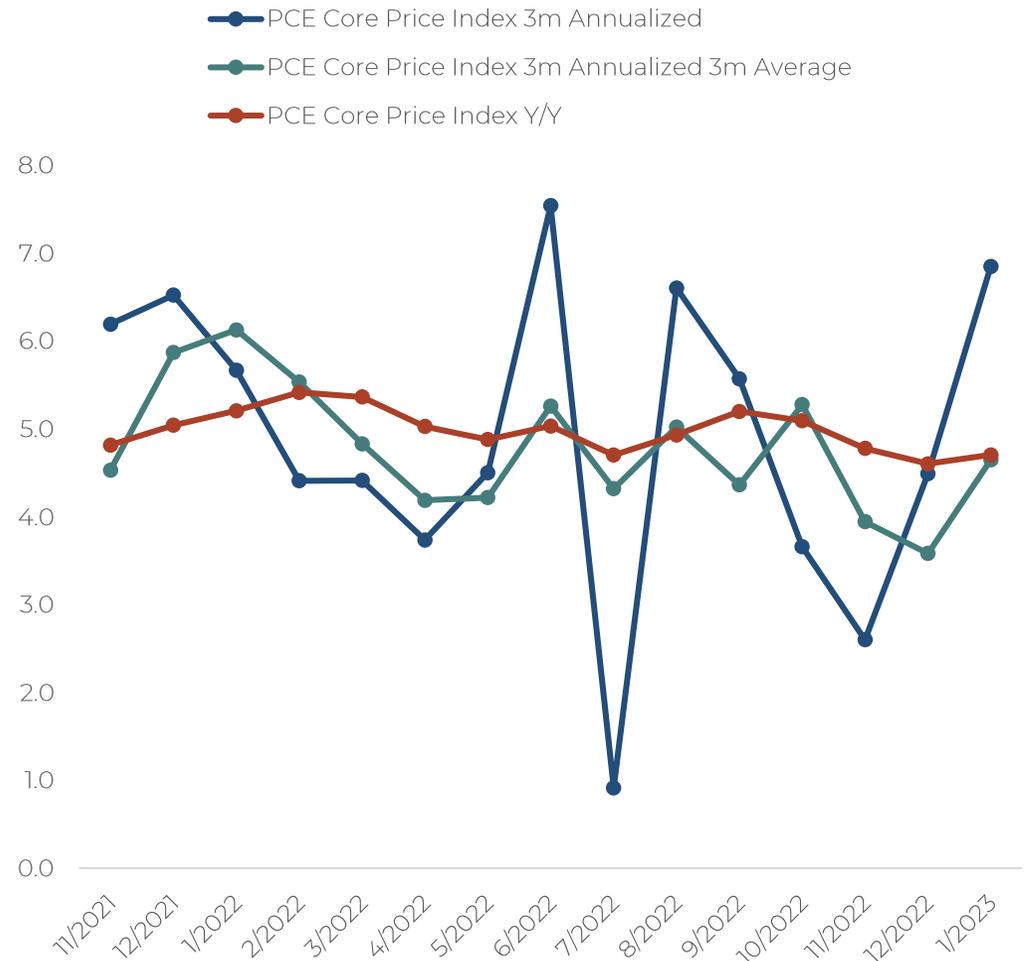
PCE Headline Inflation



Sources: FRED, BEA, Blue Line Capital, Blue Line Futures

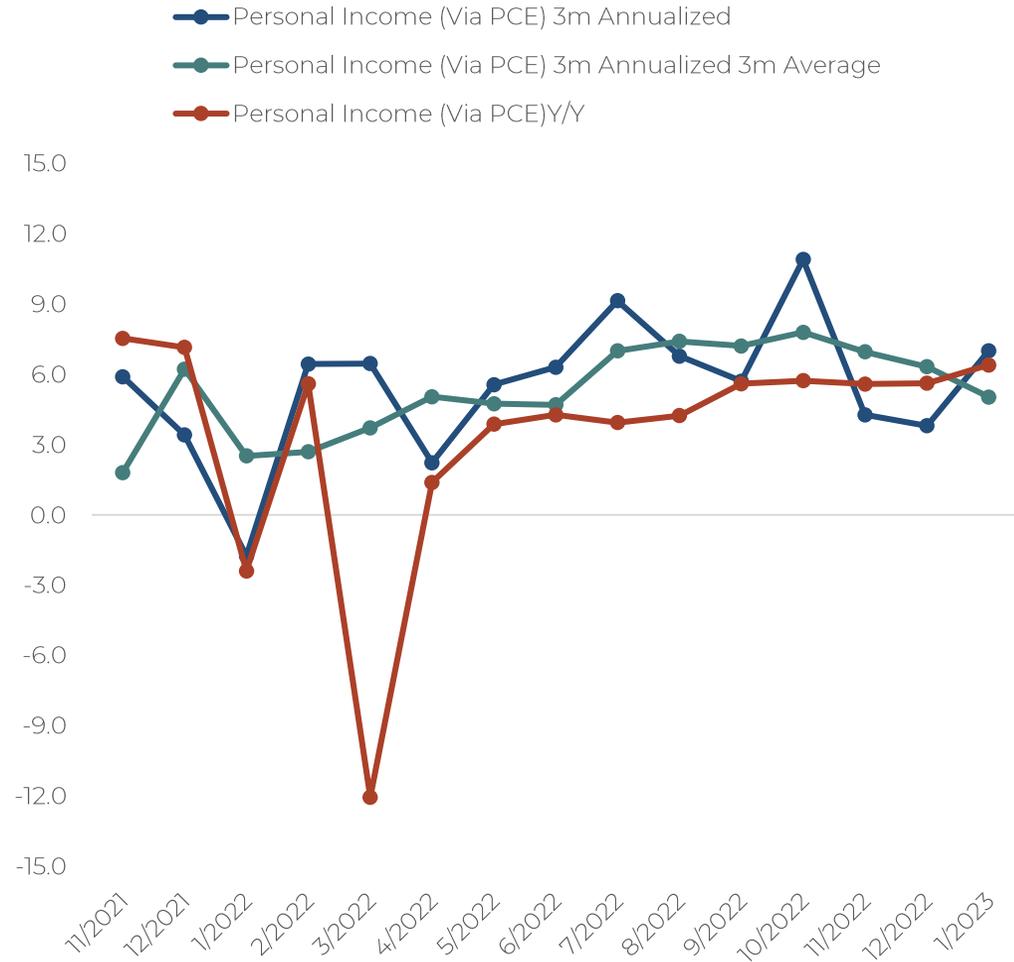
2/25/2023

Core-PCE Inflation

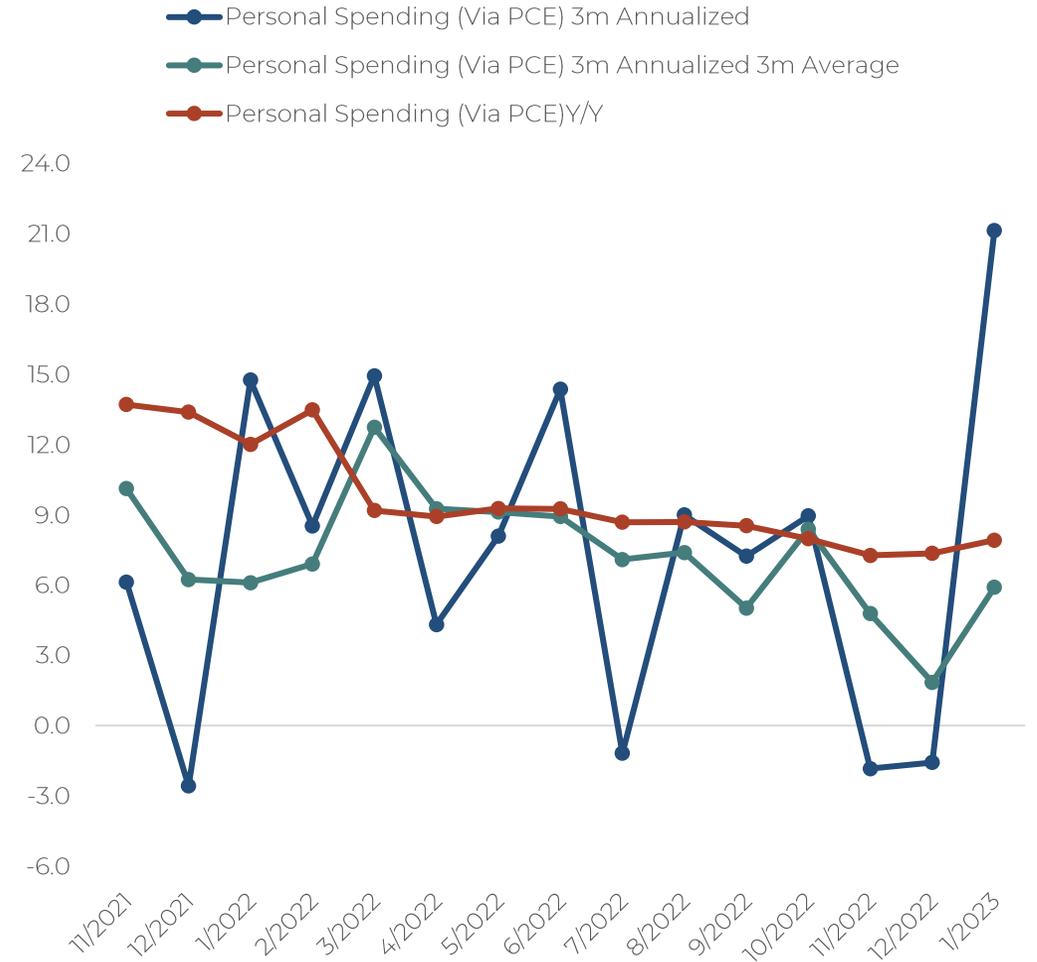


Personal Income & Spending

Personal Income Metrics



Personal Spending Metrics

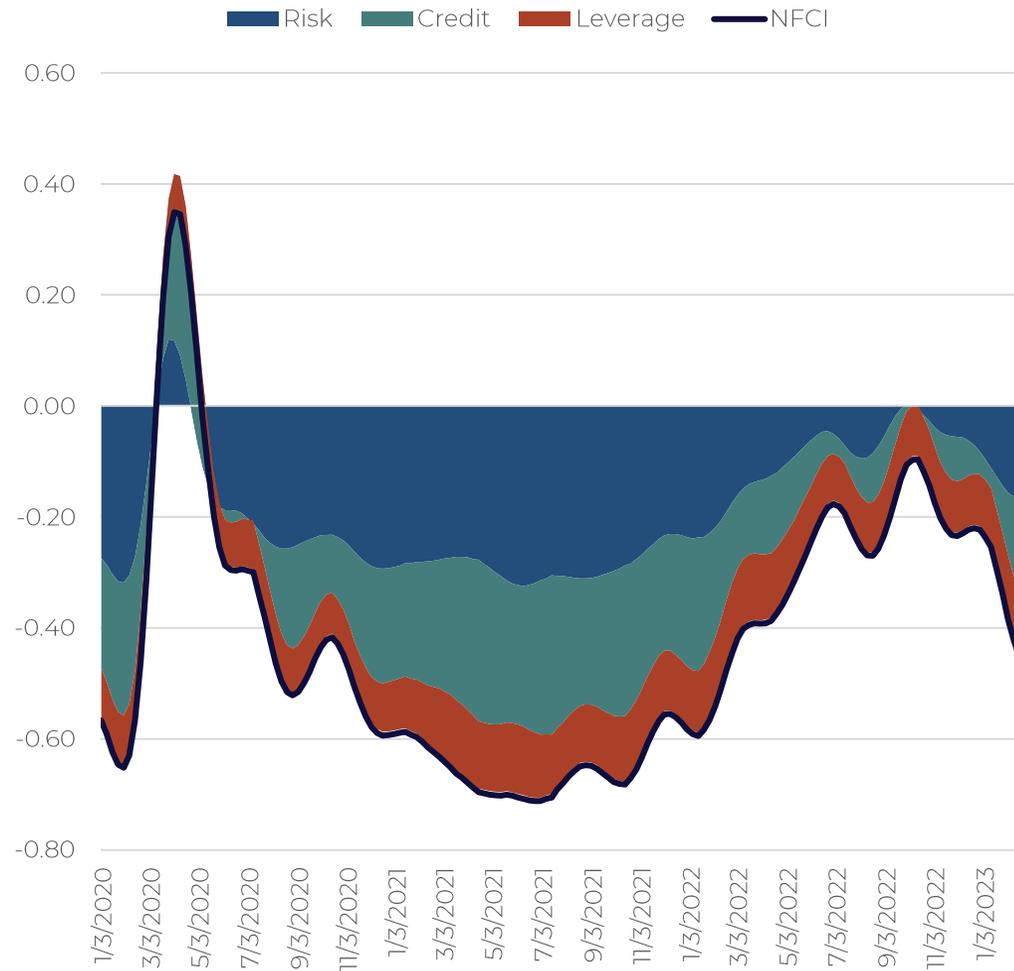


Sources: FRED, BEA, Blue Line Capital, Blue Line Futures

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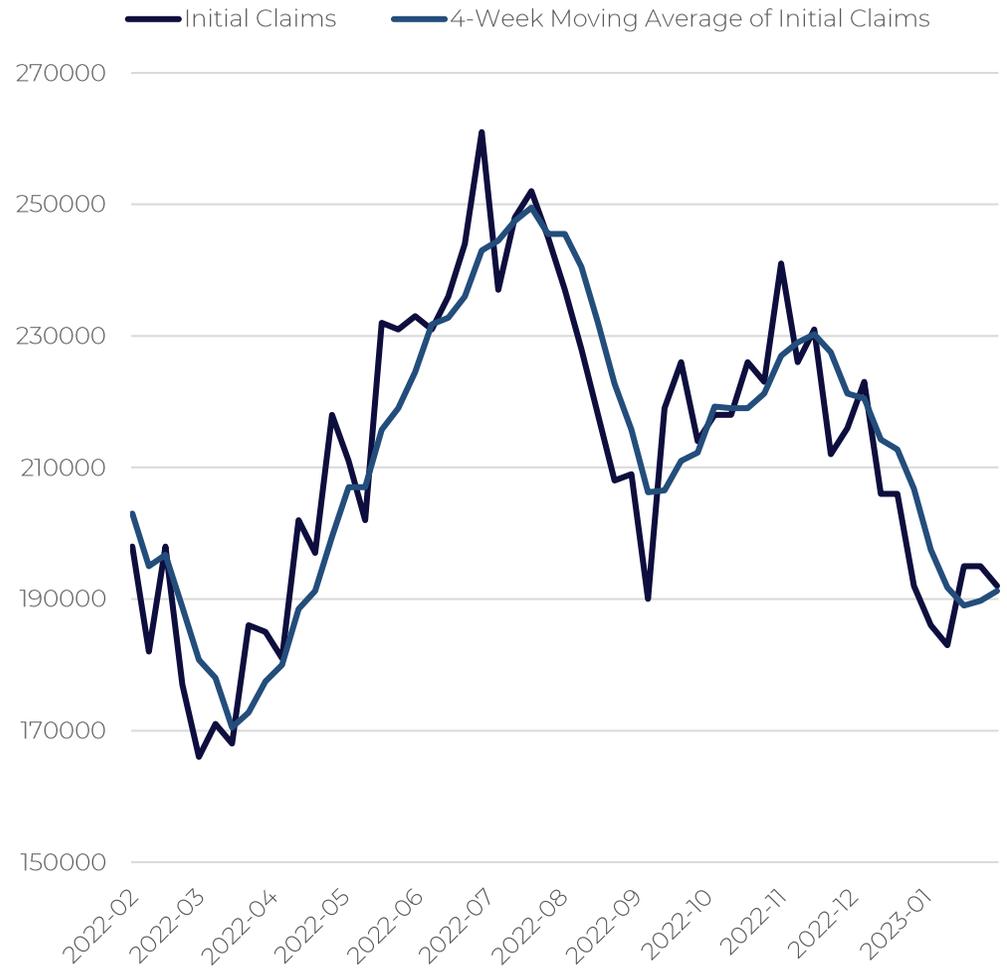
Financial Conditions Easy & Jobs Tight

Financial Conditions Index Have Retraced More Than Half-Way From Where They Started Tightening

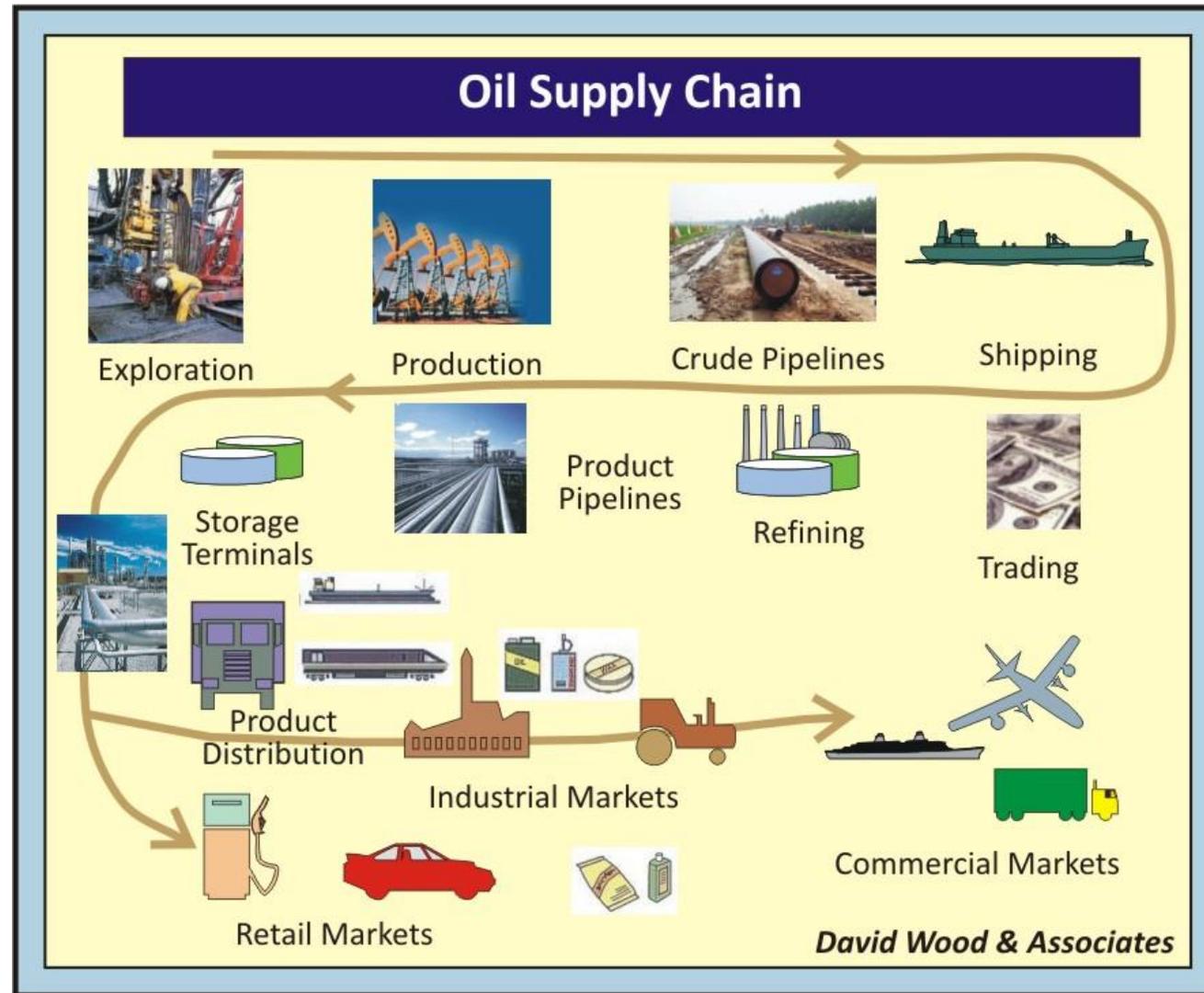


Sources: Chicago Fed, FRED, Blue Line Capital, Blue Line Futures

Initial Jobless Claims Remain Very Tight At +192k Last Week



The Oil Supply Chain Illustrated

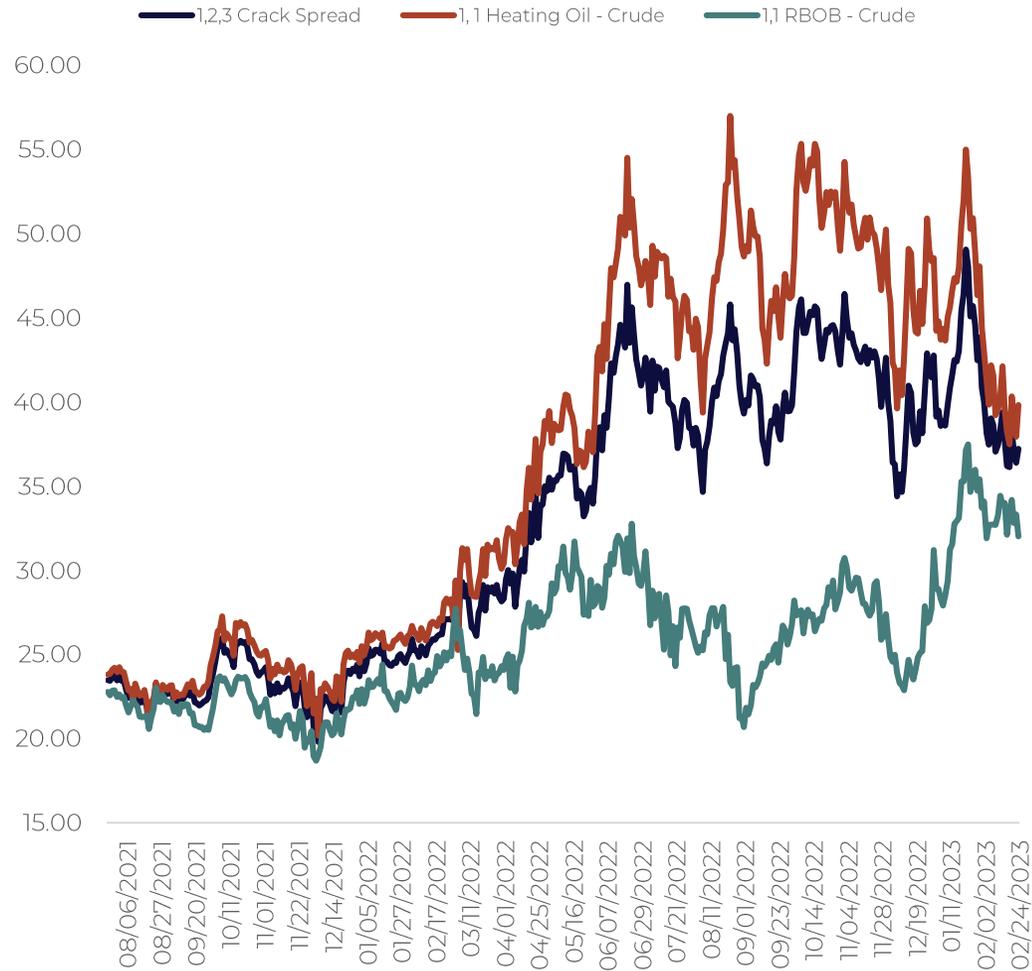


Sources: Ohio State University

2/25/2023

Crack Spreads Tight But Off Highs

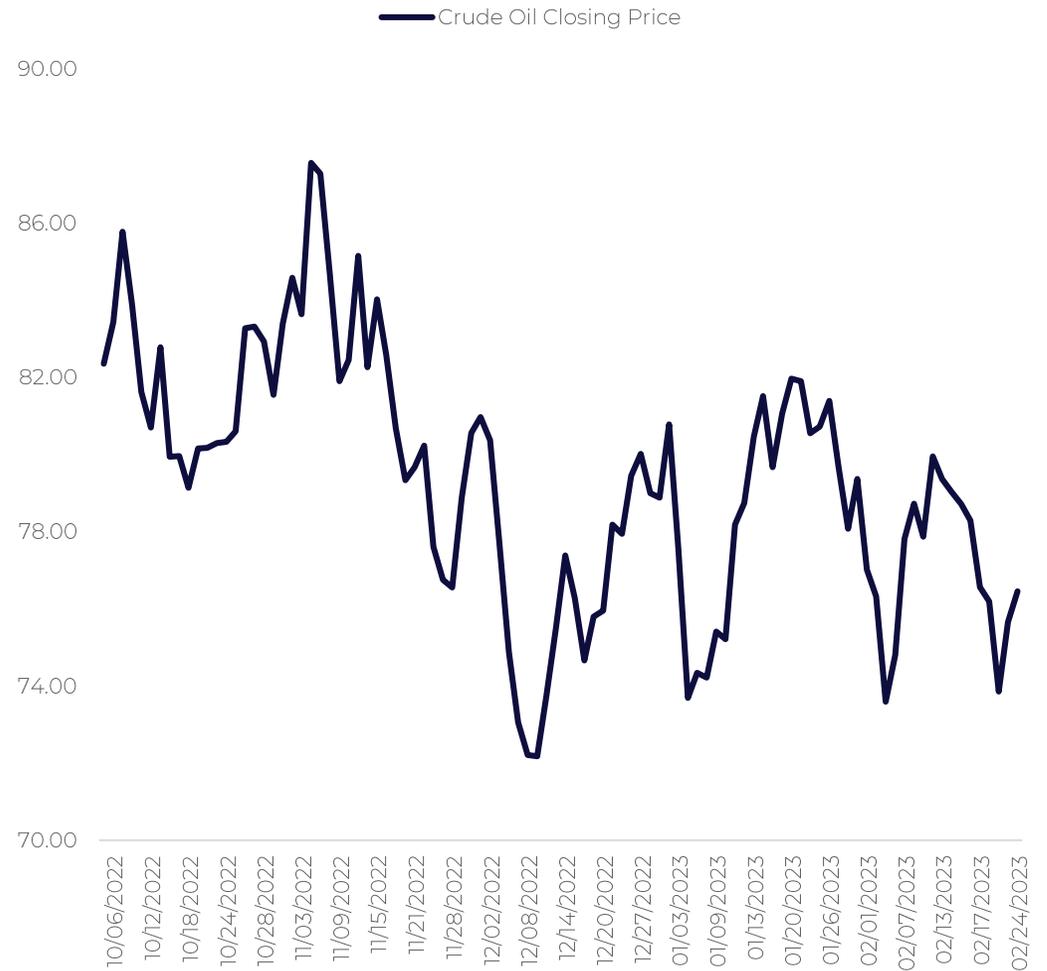
Crack Spreads Are Off Their Highs, But Stubbornly High Still



Sources: CQG, Blue Line Capital, Blue Line Futures

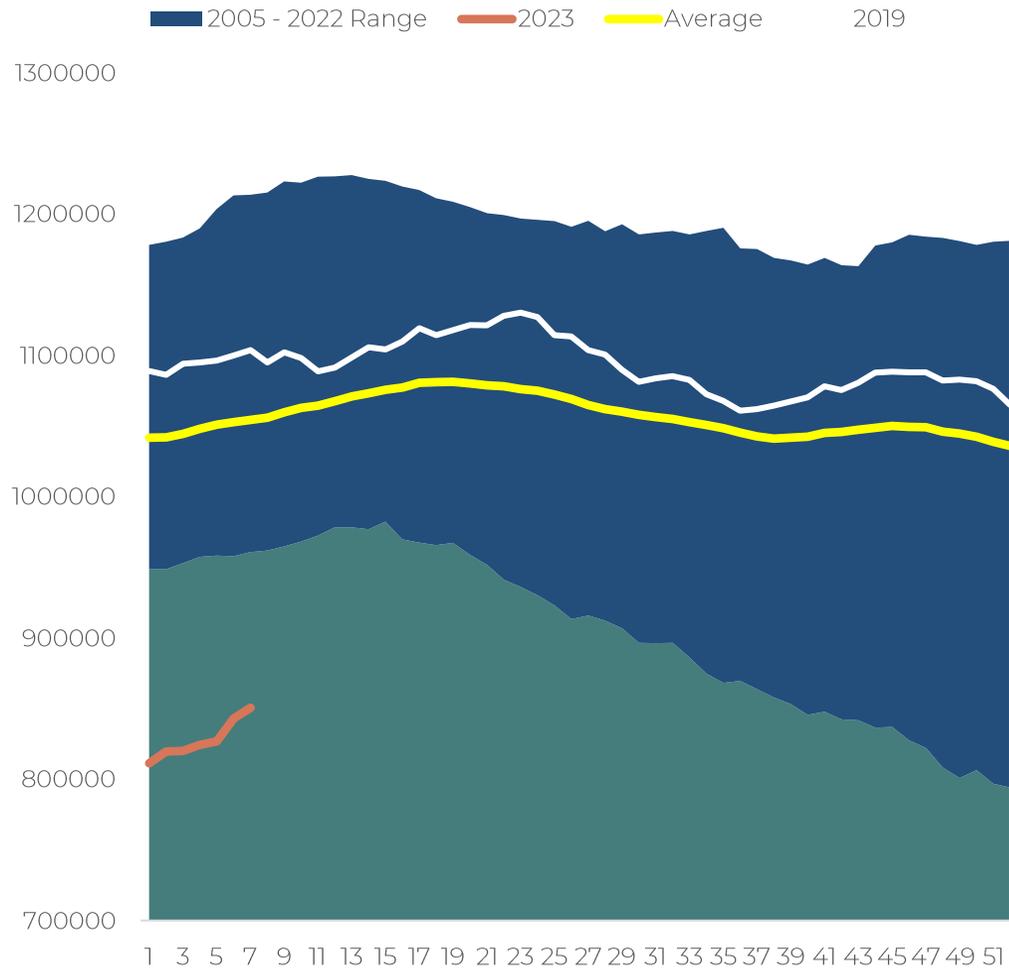
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Crude Oil Traders Have Been Eagerly Awaiting China's Reopening



Crude Inventories Historically Low, Gasoline Near Average

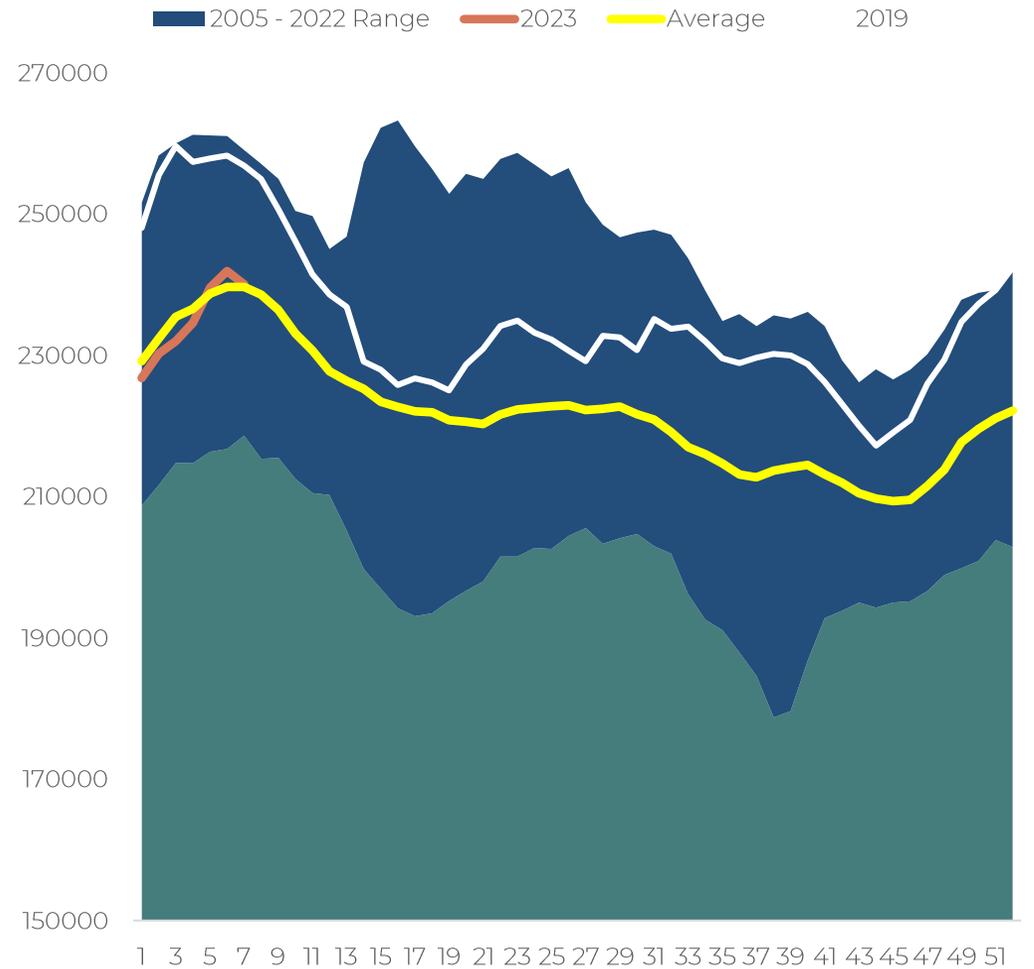
U.S. Crude Oil Inventories Have Recovered From 2022, But Trend Below Historical Norms



Sources: EIA, Blue Line Capital, Blue Line Futures

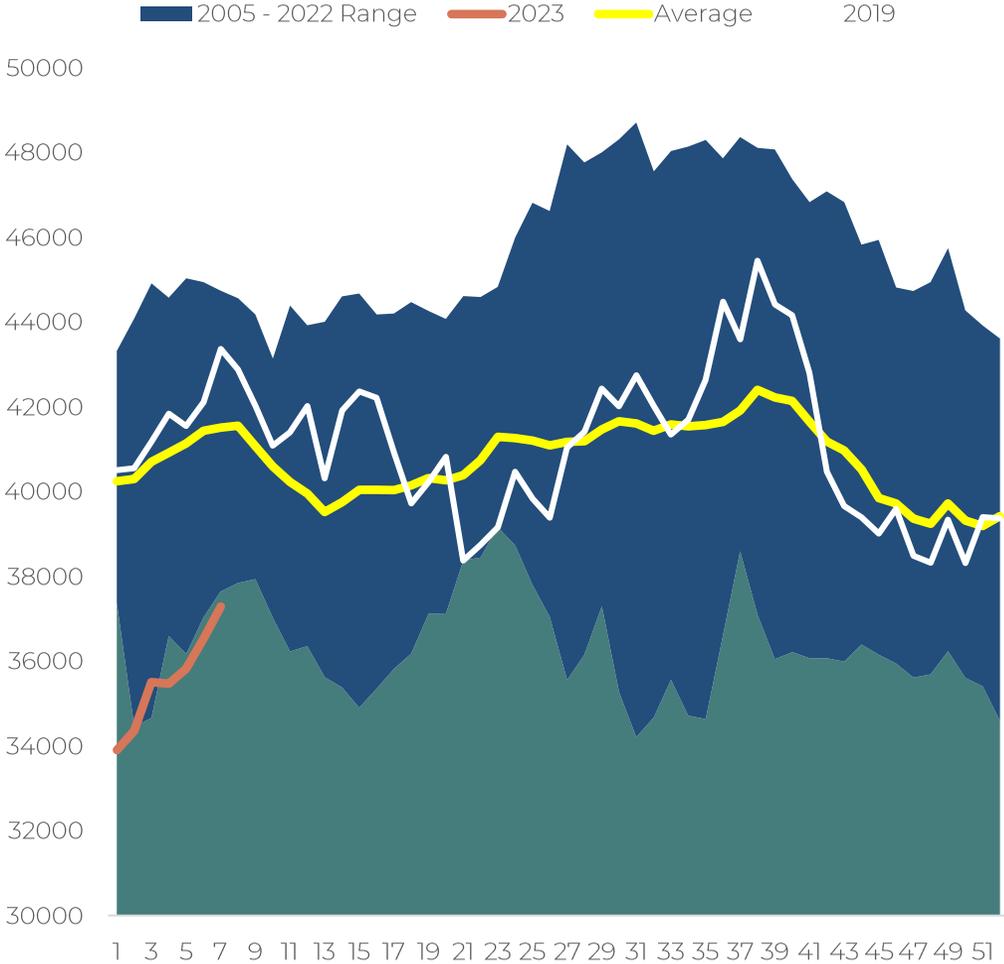
2/25/2023

Gasoline Inventories At Average Despite Elevated Crack Spreads



Jet Fuel Inventories Recovering | Natural Gas Near Average

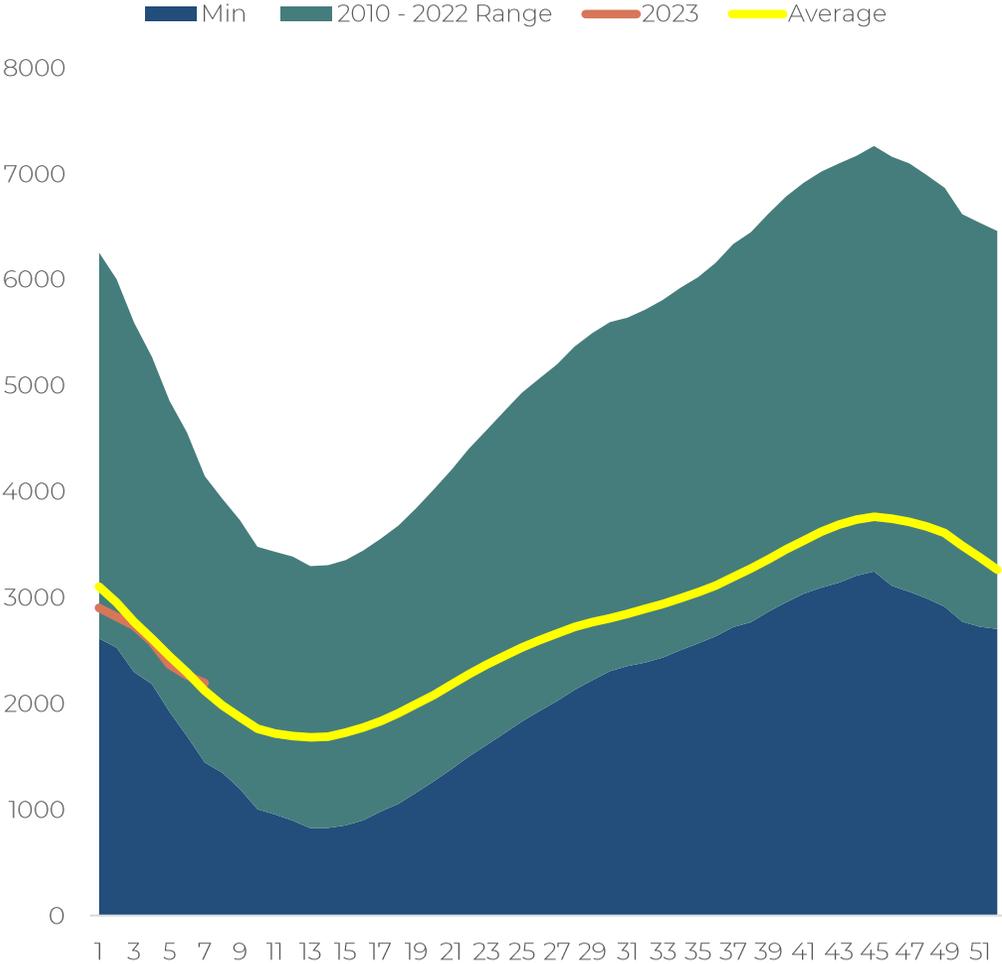
Jet Fuel Inventories Near Historical Lows, But Recovering



Sources: EIA, Blue Line Capital, Blue Line Futures

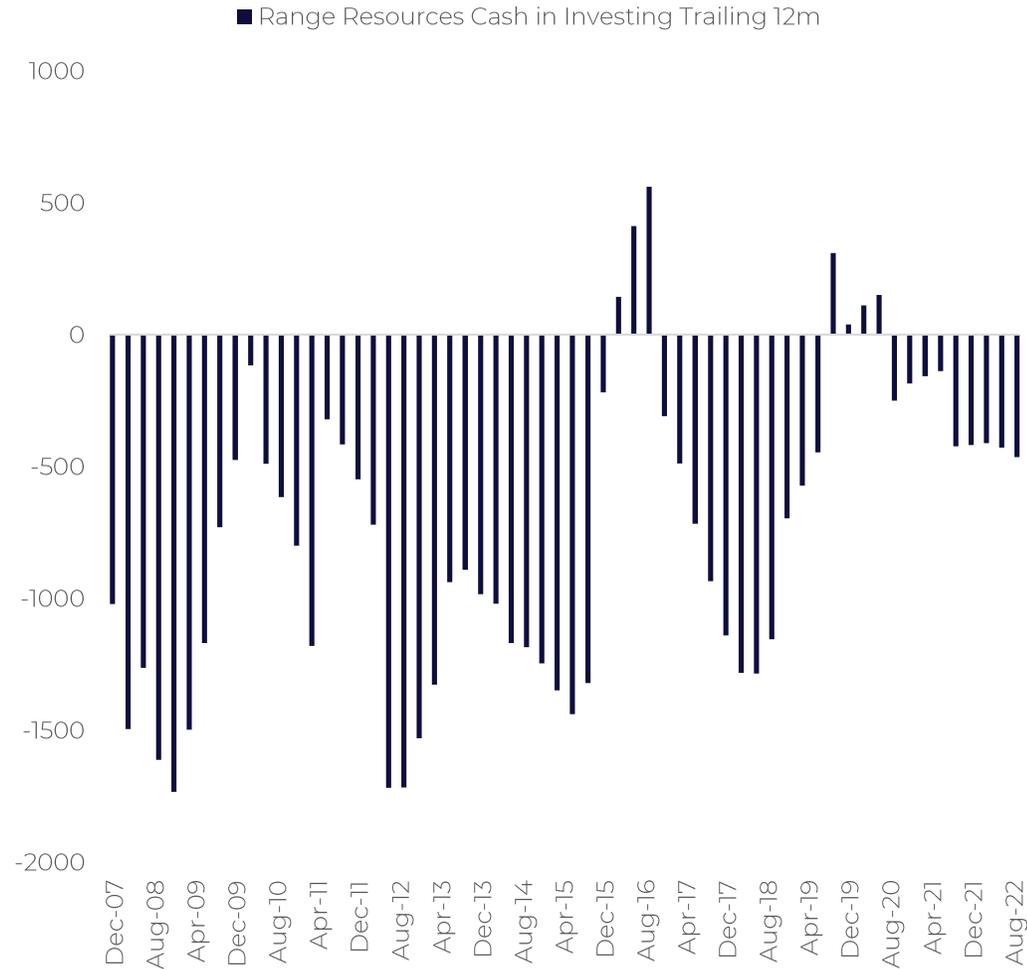
2/25/2023

Natural Gas Inventories At Historical Average (Freeport Coming Back Online & European Gas Shortage On The Radar)

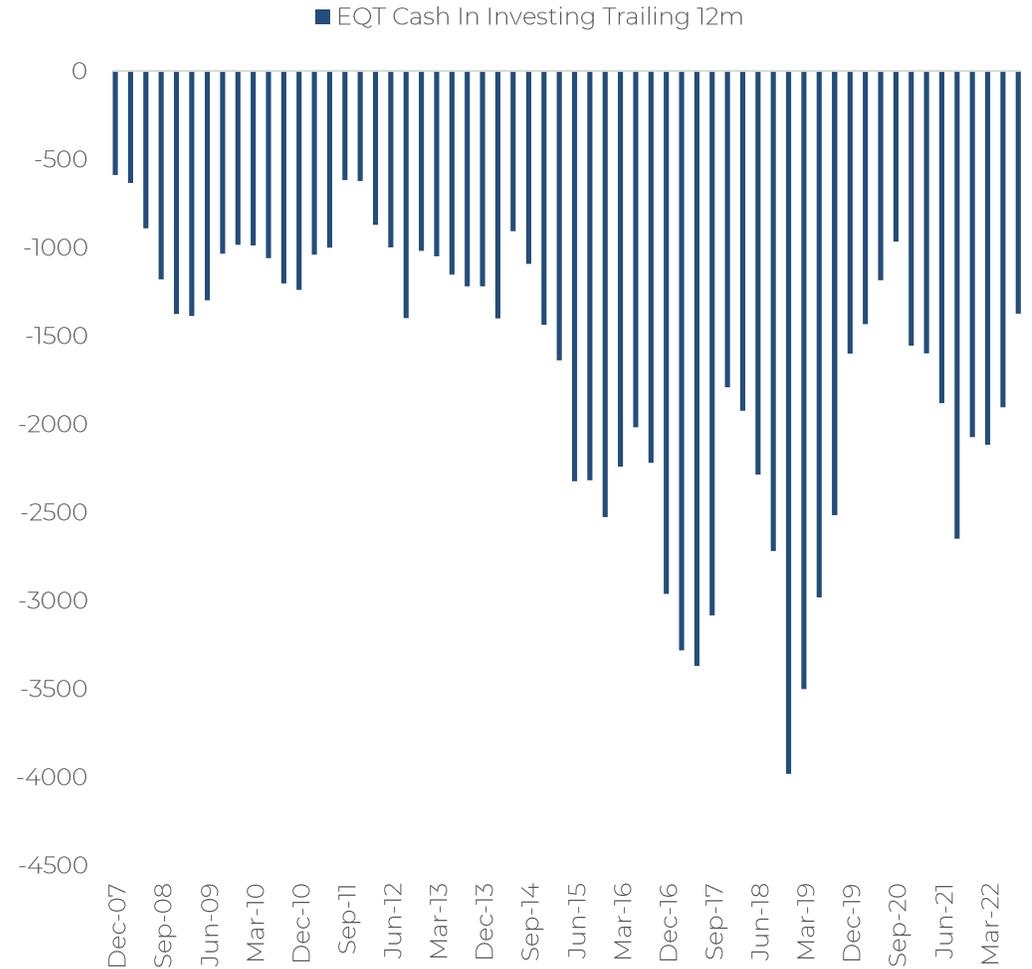


Natural Gas Producers Investment Activity

Range Resources Is Spending 27% Of What The Company Used To Spend At Peak



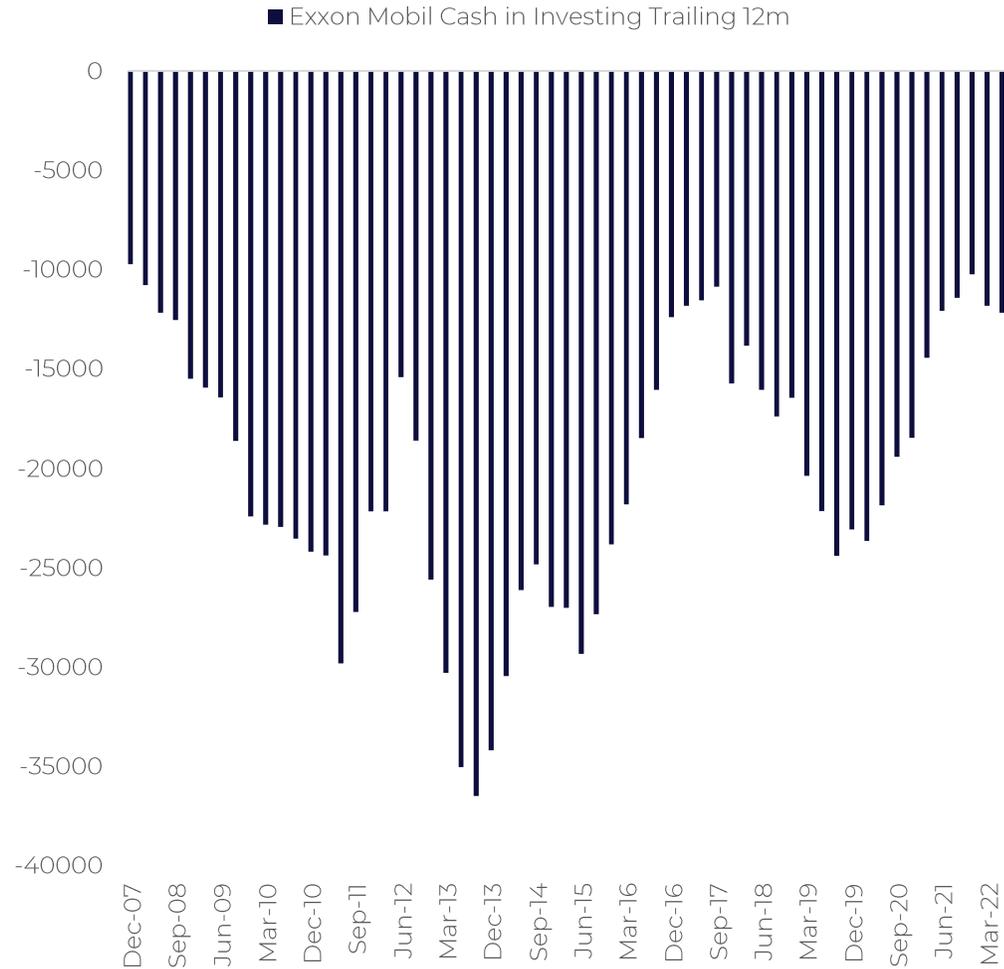
EQT Spends 35% Of What It Used To Spend During Peak Spending Years



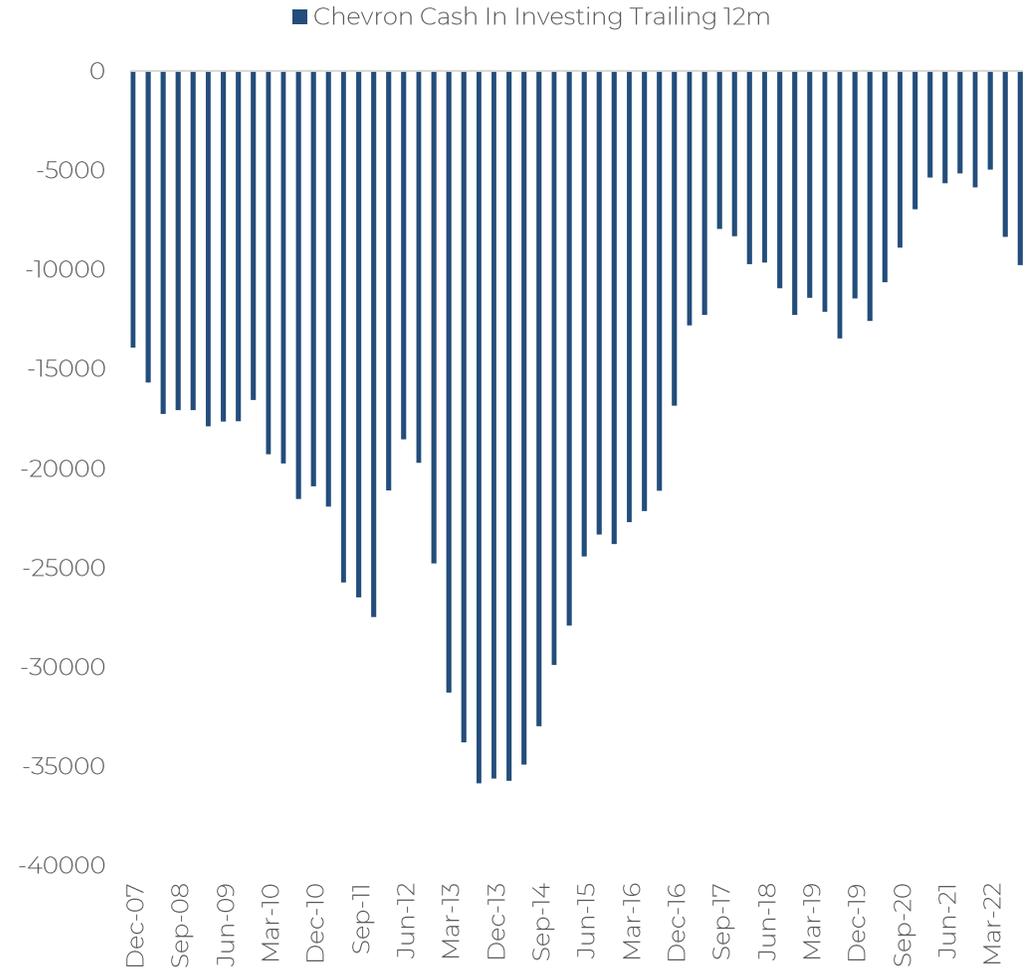
Sources: Range Resources IR, EQT IR, Blue Line Capital, Blue Line Futures

Oil Producers Investment Activity

Exxon Mobil CAPEX Is 32% Of What It Was At Peak



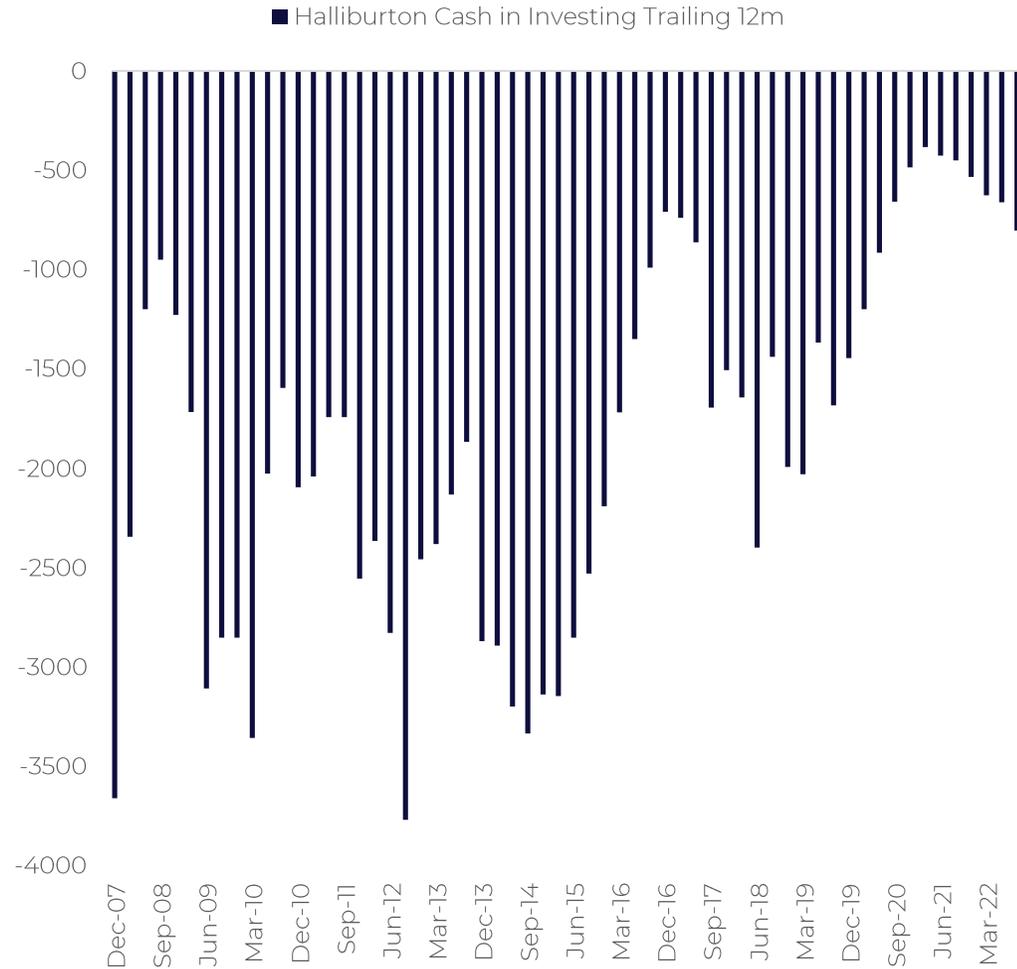
Chevron CAPEX Is 27% Of What It Was At Peak



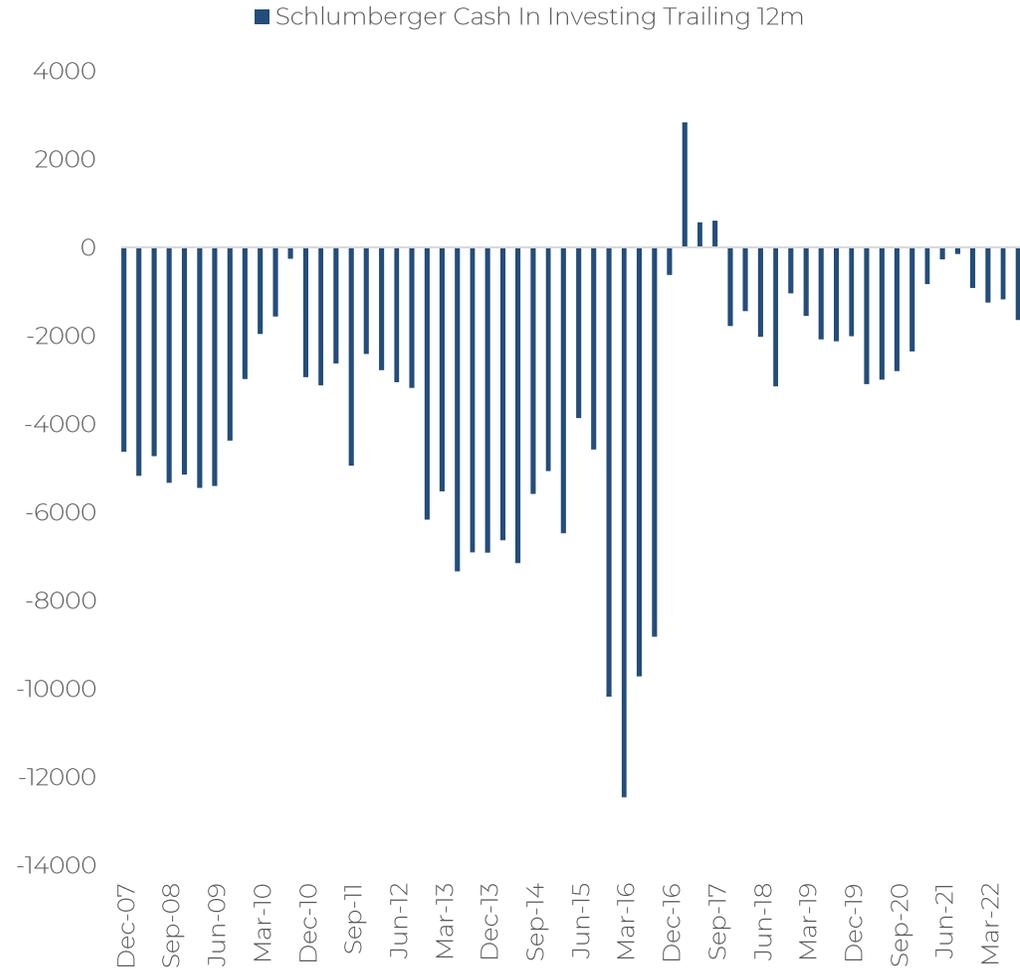
Sources: Exxon Mobil IR, Chevron IR, Blue Line Capital, Blue Line Futures

Oil Services Investment Activity

Halliburton's CAPEX Is 21% Of What It Was At Peak



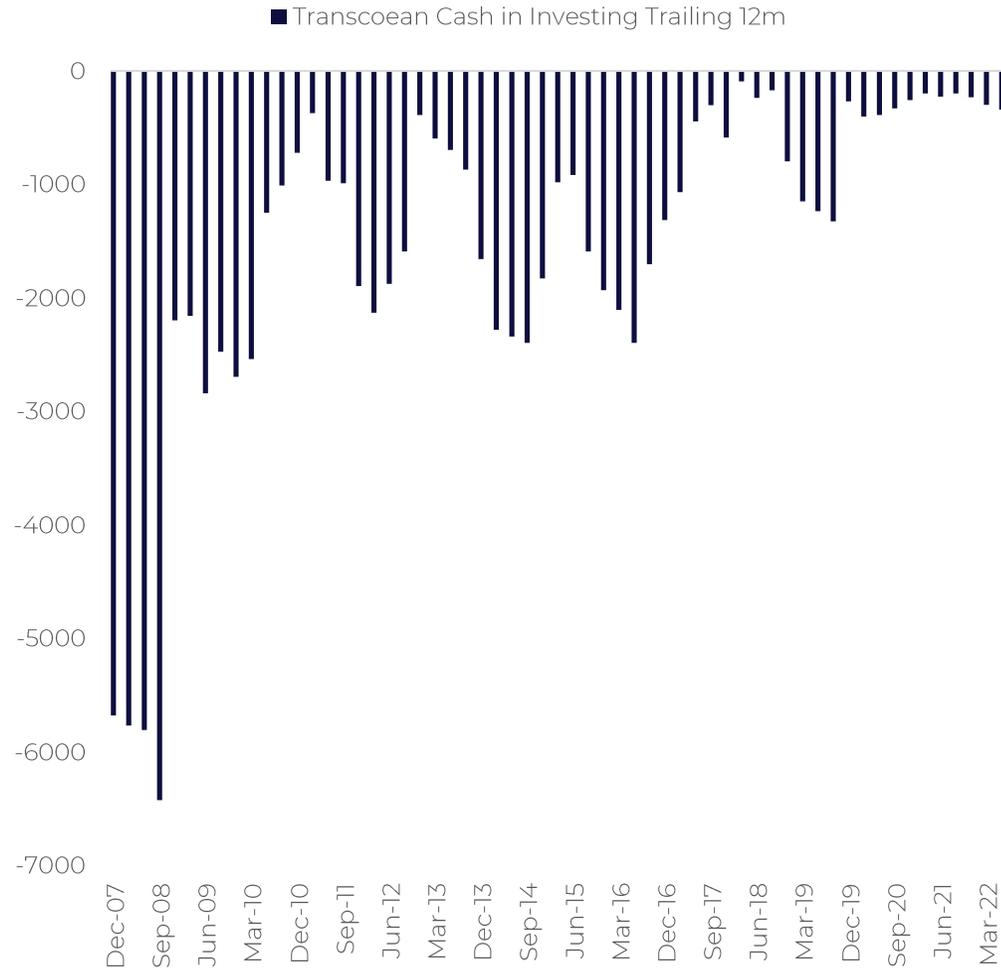
Schlumberger's CAPEX Is 13% Of What It Was At Peak



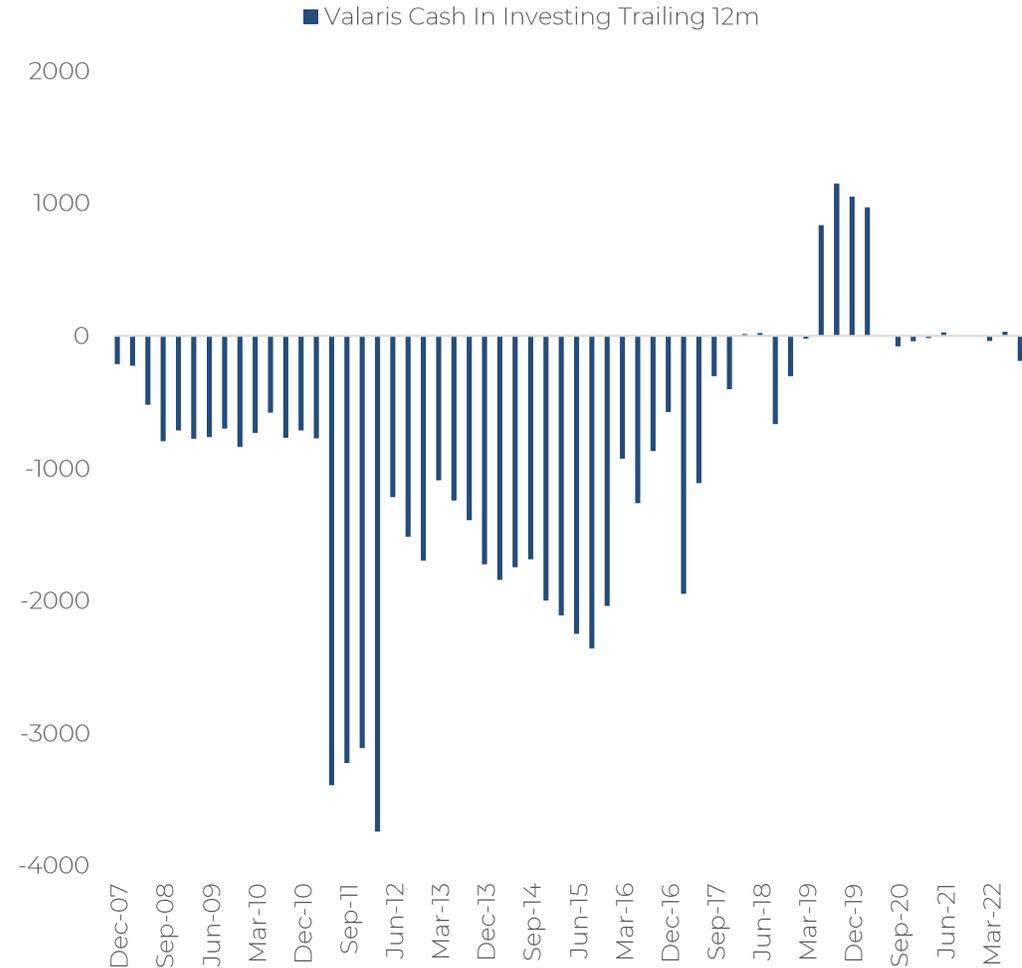
Sources: Halliburton IR, Schlumberger IR, Blue Line Capital, Blue Line Futures

Deepwater Drilling Investment Activity

Transocean CAPEX Is 15% Of What It Was During The Shale Boom In 2015



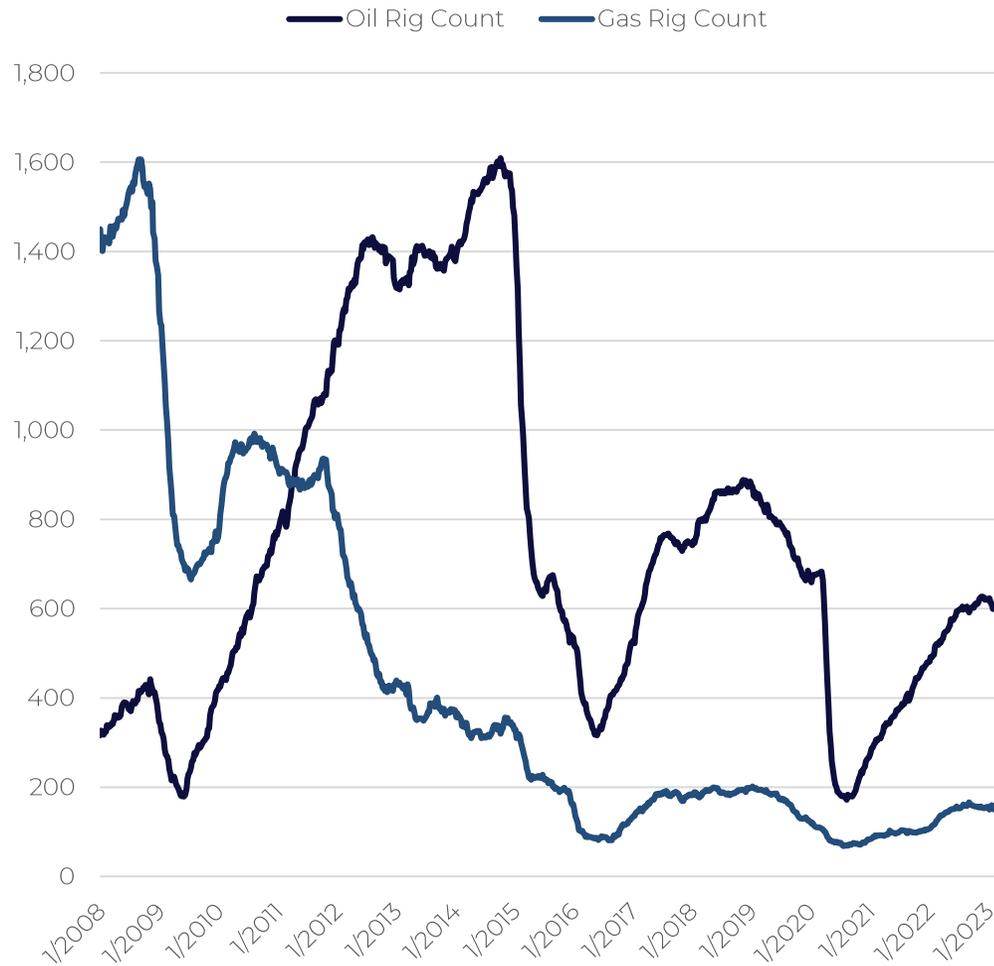
Valaris' CAPEX Is 9% Of What It Was During The Shale Boom In 2015



Sources: Transocean IR, ValarisIR, Blue Line Capital, Blue Line Futures

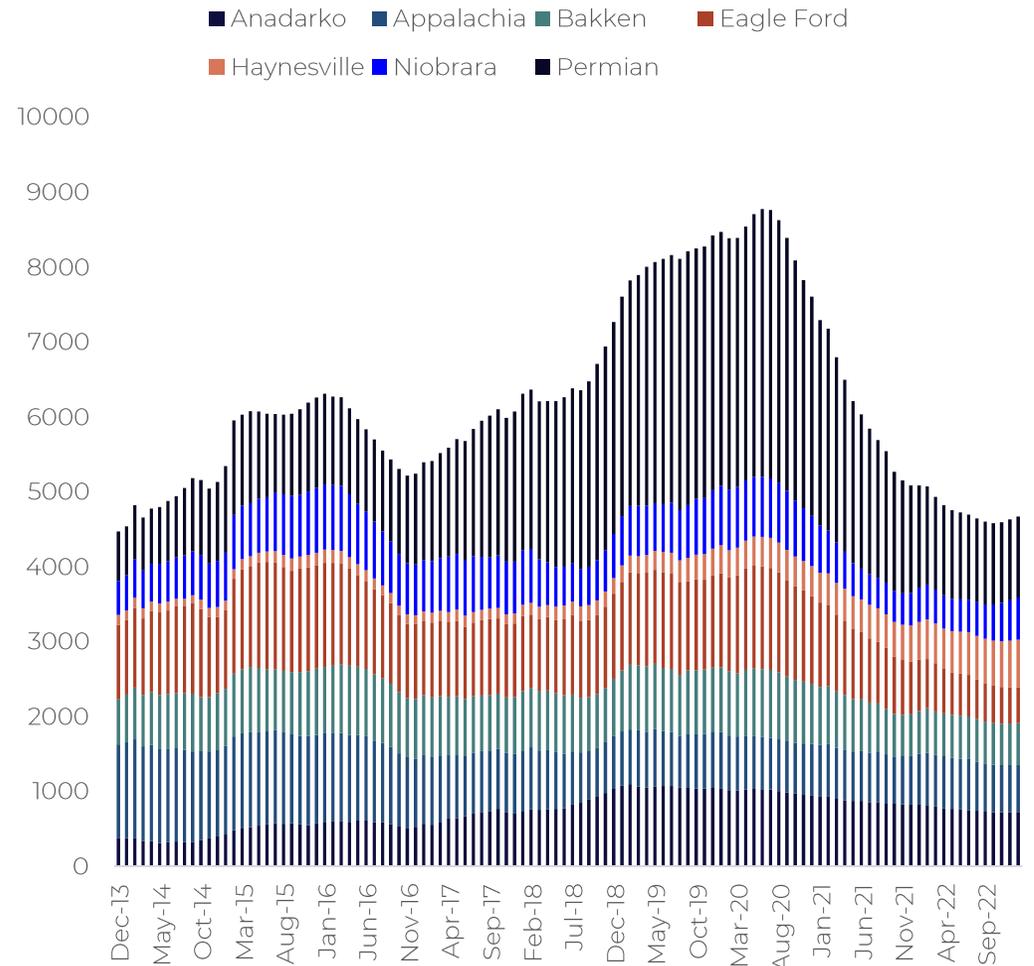
U.S. Rig Count & DUCs Imply Limited Production Volume

U.S. Oil & Gas Rig Count Plateauing



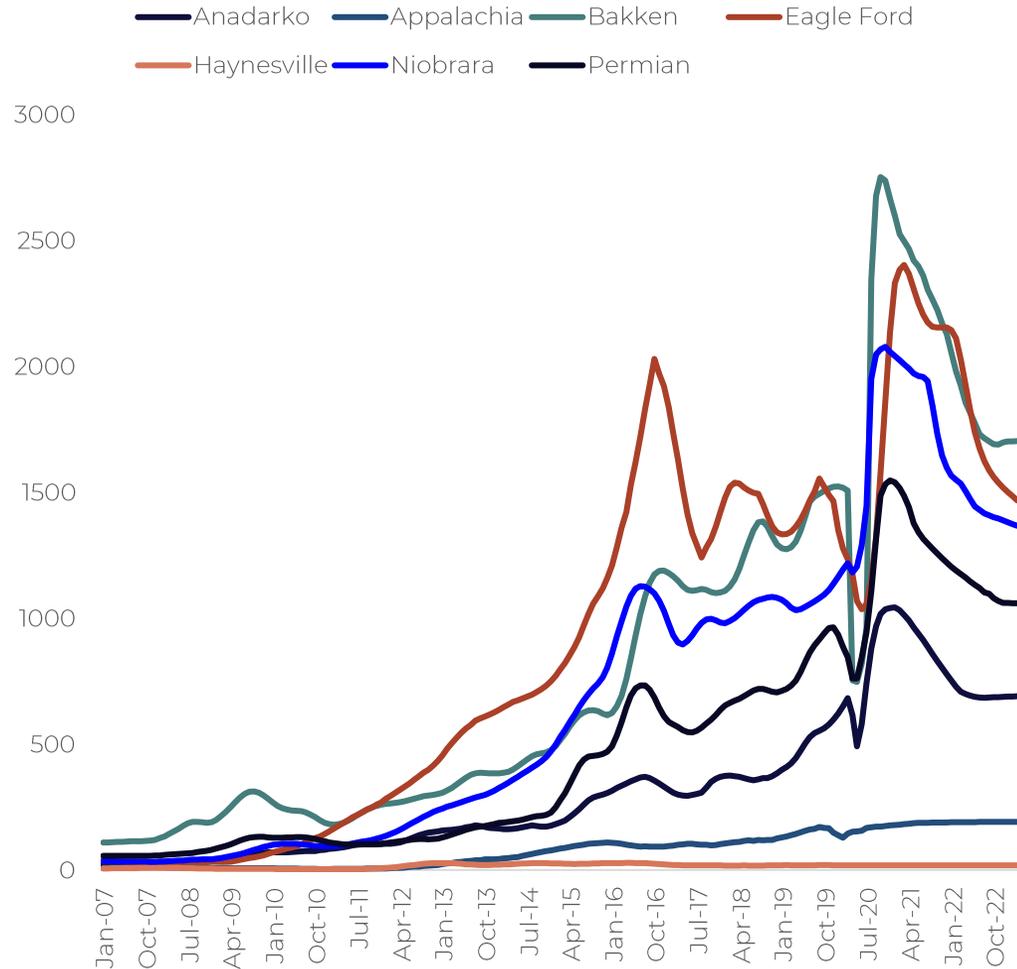
Sources: Baker Hughes, EIA, Blue Line Capital, Blue Line Futures

DUCs Have Bottomed Off Sugar High



Oil Well Productivity

Oil Well Productivity (bbl/d)



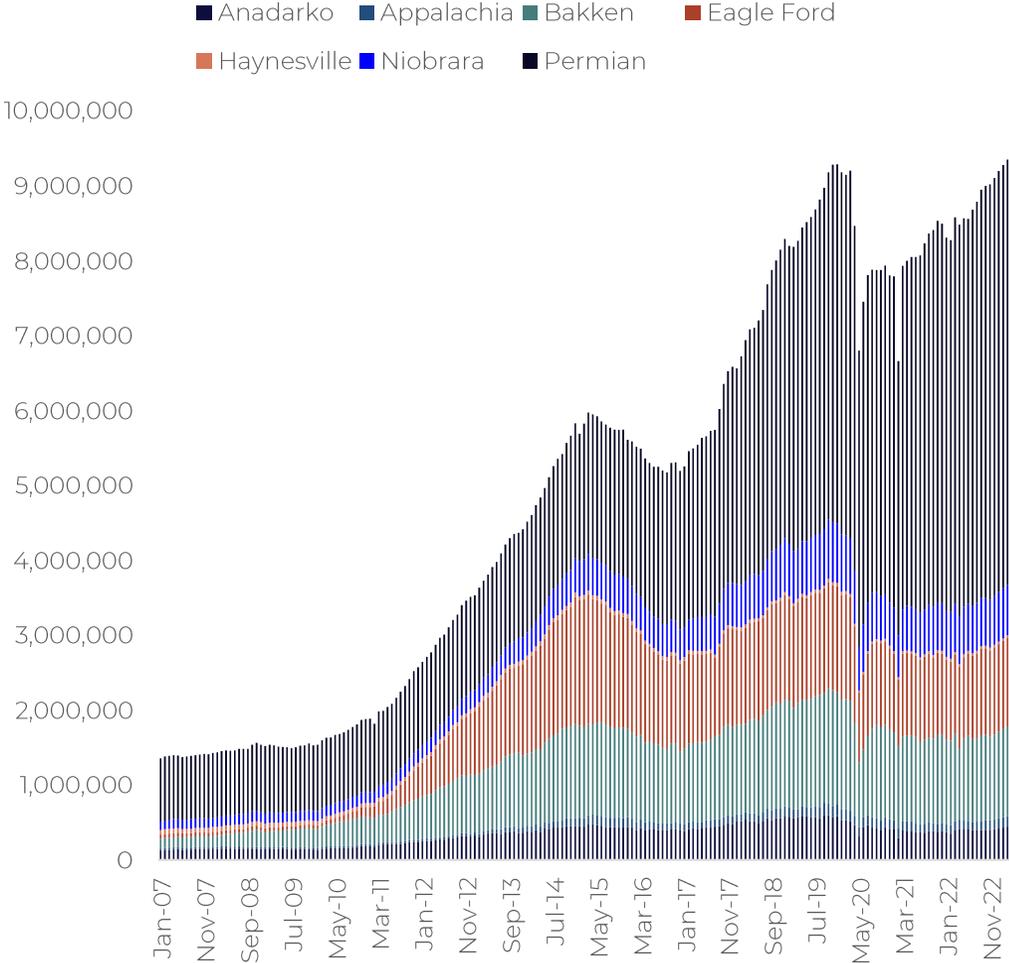
Sources: EIA, Blue Line Capital, Blue Line Futures

Y/Y Well Productivity %

	Anadarko	Appalachia	Bakken	Eagle Ford	Haynesville	Niobrara	Permian
Jan-22	-28%	6%	-21%	-8%	0%	-23%	-22%
Feb-22	-29%	6%	-22%	-11%	0%	-23%	-22%
Mar-22	-30%	4%	-23%	-16%	0%	-24%	-21%
Apr-22	-29%	3%	-25%	-19%	0%	-25%	-19%
May-22	-28%	2%	-25%	-21%	0%	-25%	-17%
Jun-22	-27%	1%	-26%	-23%	0%	-26%	-16%
Jul-22	-25%	2%	-27%	-24%	0%	-27%	-15%
Aug-22	-23%	2%	-26%	-25%	0%	-27%	-15%
Sep-22	-20%	1%	-25%	-26%	0%	-24%	-14%
Oct-22	-17%	1%	-24%	-28%	0%	-19%	-14%
Nov-22	-15%	1%	-22%	-29%	0%	-15%	-14%
Dec-22	-12%	1%	-20%	-30%	0%	-13%	-13%
Jan-23	-9%	1%	-17%	-30%	0%	-12%	-12%
Feb-23	-5%	1%	-14%	-30%	0%	-11%	-11%
Mar-23	-2%	1%	-11%	-28%	0%	-11%	-10%

Oil Production Data

U.S. Oil Production By Region (bbl/d)



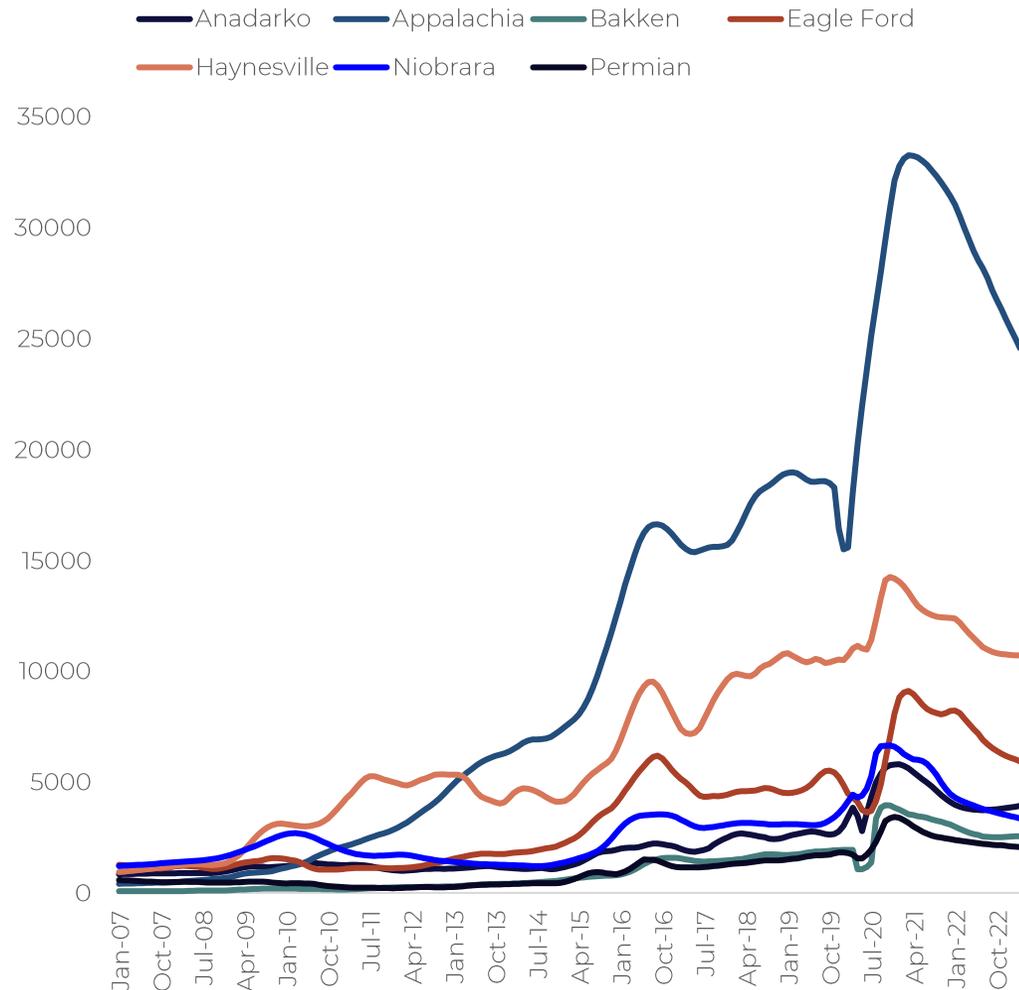
Sources: EIA, Blue Line Capital, Blue Line Futures

Y/Y Production Change By Region

	Anadarko	Appalachia	Bakken	Eagle Ford	Haynesville	Niobrara	Permian
Jan-22	-8%	-18%	-3%	1%	5%	7%	13%
Feb-22	20%	-12%	3%	19%	26%	12%	35%
Mar-22	2%	-10%	3%	-4%	11%	15%	13%
Apr-22	7%	-5%	-16%	-2%	11%	7%	14%
May-22	4%	-5%	-4%	0%	10%	7%	11%
Jun-22	9%	-8%	-1%	2%	8%	7%	9%
Jul-22	8%	1%	1%	1%	6%	6%	11%
Aug-22	10%	1%	-2%	3%	7%	7%	10%
Sep-22	4%	3%	1%	3%	5%	5%	10%
Oct-22	5%	22%	1%	7%	1%	-1%	9%
Nov-22	7%	21%	-7%	7%	-3%	-1%	9%
Dec-22	7%	24%	-4%	7%	-2%	2%	10%
Jan-23	12%	28%	2%	10%	1%	8%	13%
Feb-23	22%	27%	4%	11%	1%	7%	14%
Mar-23	11%	20%	3%	11%	-2%	6%	10%

Natural Gas Well Productivity

Natural Gas Well Productivity (Mcf/d)



Sources: EIA, Blue Line Capital, Blue Line Futures

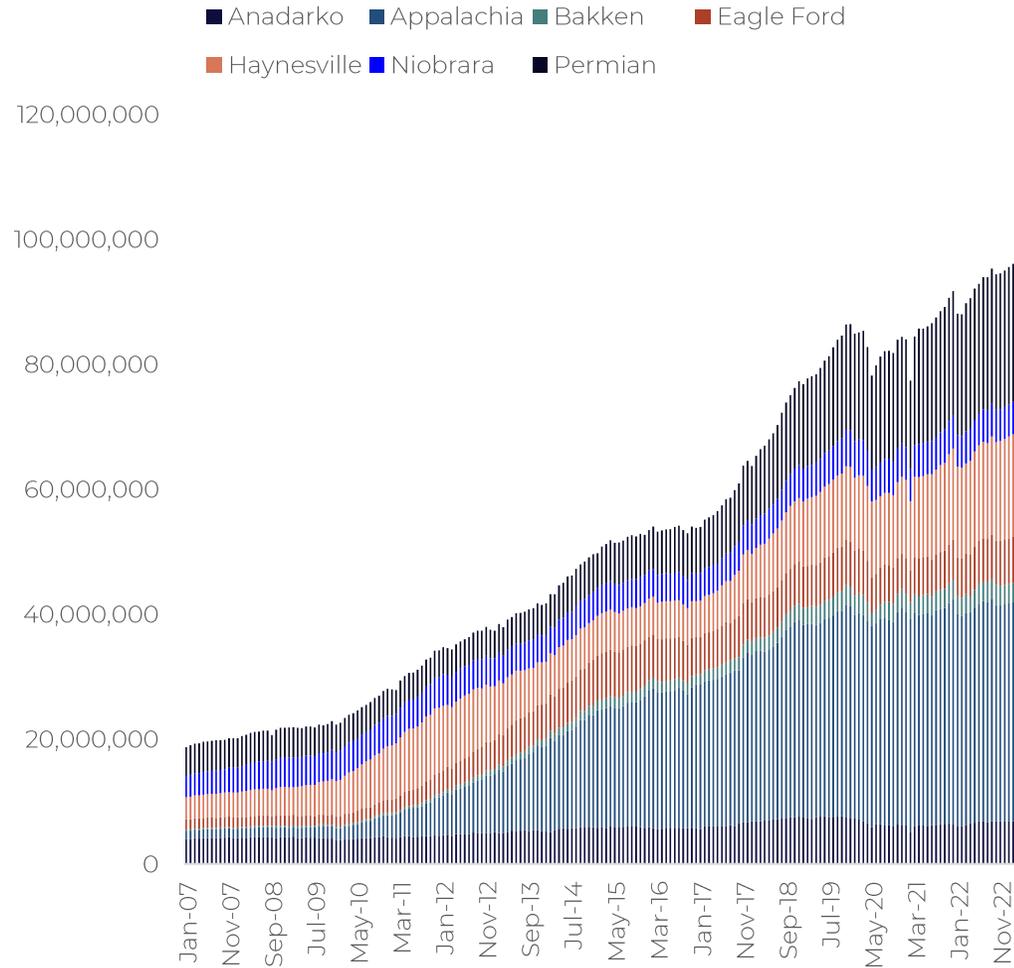
2/25/2023

Y/Y Well Productivity %

	Anadarko	Appalachia	Bakken	Eagle Ford	Haynesville	Niobrara	Permian
Jan-22	-32%	-5%	-21%	-7%	-12%	-33%	-30%
Feb-22	-32%	-8%	-21%	-10%	-12%	-33%	-28%
Mar-22	-32%	-10%	-21%	-14%	-12%	-33%	-26%
Apr-22	-31%	-11%	-23%	-15%	-11%	-33%	-23%
May-22	-29%	-13%	-23%	-15%	-11%	-34%	-21%
Jun-22	-27%	-14%	-24%	-15%	-11%	-35%	-19%
Jul-22	-25%	-14%	-25%	-17%	-12%	-35%	-17%
Aug-22	-22%	-15%	-24%	-18%	-12%	-33%	-15%
Sep-22	-18%	-16%	-23%	-19%	-13%	-31%	-14%
Oct-22	-15%	-17%	-22%	-21%	-13%	-28%	-14%
Nov-22	-10%	-17%	-20%	-23%	-13%	-24%	-12%
Dec-22	-7%	-18%	-18%	-25%	-13%	-21%	-12%
Jan-23	-3%	-18%	-15%	-26%	-13%	-20%	-12%
Feb-23	0%	-18%	-11%	-26%	-12%	-19%	-12%
Mar-23	3%	-18%	-9%	-24%	-10%	-18%	-11%

Natural Gas Production Data

Natural Gas Production By Region (Mcf/d)



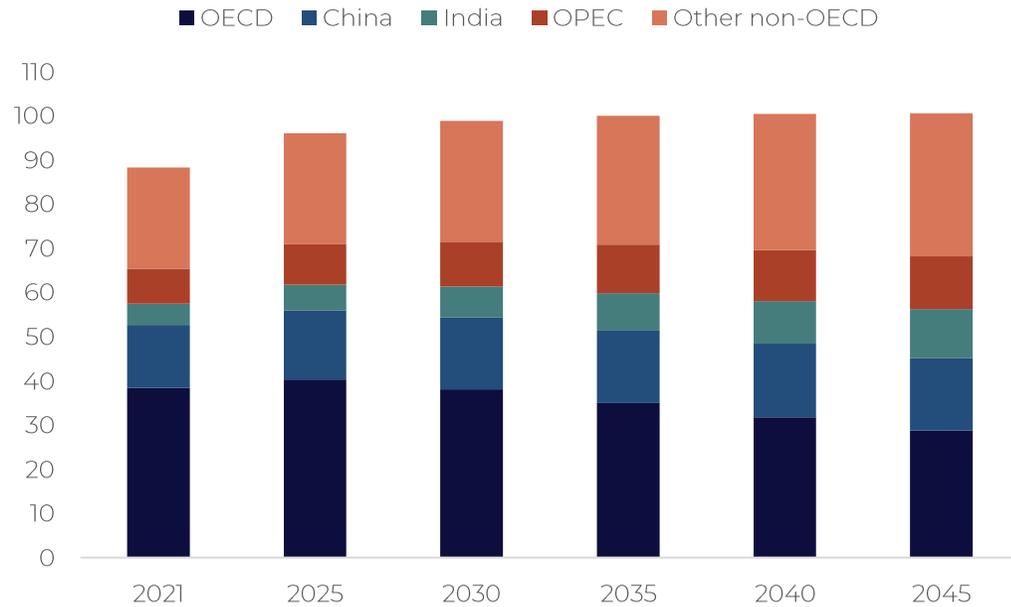
Sources: EIA, Blue Line Capital, Blue Line Futures

Y/Y Production Change By Region

	Anadarko	Appalachi	Bakken	Eagle Ford	Haynesvill	Niobrara	Permian
Jan-22	-1%	-1%	0%	10%	16%	-4%	12%
Feb-22	21%	-2%	7%	25%	31%	-2%	38%
Mar-22	2%	-1%	5%	8%	13%	1%	18%
Apr-22	6%	0%	-16%	10%	15%	-2%	13%
May-22	7%	2%	-6%	13%	18%	-6%	15%
Jun-22	12%	2%	3%	18%	16%	-4%	13%
Jul-22	10%	5%	8%	15%	13%	-3%	12%
Aug-22	9%	2%	4%	17%	13%	-1%	12%
Sep-22	9%	3%	5%	17%	13%	0%	11%
Oct-22	8%	0%	5%	16%	12%	-3%	11%
Nov-22	5%	-2%	-2%	16%	10%	-4%	10%
Dec-22	8%	-4%	1%	14%	10%	-2%	9%
Jan-23	12%	3%	8%	17%	12%	2%	13%
Feb-23	13%	4%	8%	17%	13%	2%	13%
Mar-23	10%	4%	4%	15%	15%	0%	8%

Oil & Gas Consumption Outlook By Region

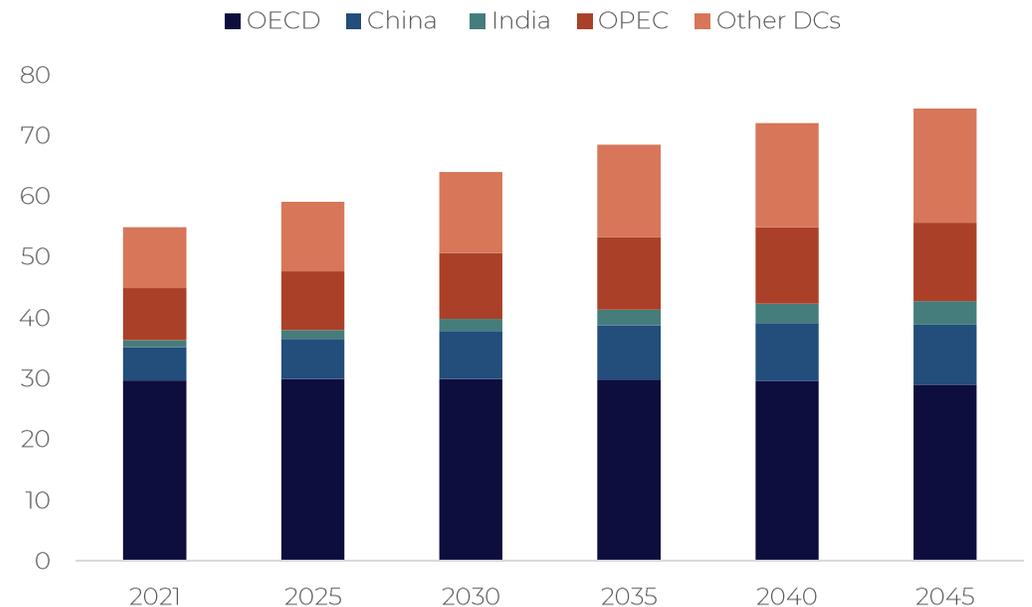
Oil Consumption By Region Estimate (mboe/d)



	2021 To 2035	2021 To 2040	2021 To 2045
OECD CAGR	-0.7%	-1.0%	-1.2%
China CAGR	1.1%	0.8%	0.6%
India CAGR	4.0%	3.7%	3.5%
OPEC CAGR	2.3%	2.0%	1.7%
Other non-OECD CAGR	1.8%	1.6%	1.5%
Total CAGR	0.9%	0.7%	0.5%

Sources: OPEC, Blue Line Capital, Blue Line Futures

Natural Gas Consumption By Region Estimate (mboe/d)



	2021 To 2035	2021 To 2040	2021 To 2045
OECD CAGR	0.0%	0.0%	-0.1%
China CAGR	3.5%	3.0%	2.5%
India CAGR	6.0%	5.7%	5.2%
OPEC CAGR	2.4%	2.0%	1.7%
Other DCs CAGR	3.0%	2.9%	2.7%
Total CAGR	-0.3%	-0.2%	-0.3%

The image features three glass jars with metal lids, each containing a mix of US dollar bills and coins. The jars are arranged horizontally on a wooden surface. The first jar on the left contains a \$1 bill and several coins. The middle jar contains a \$5 bill and several coins. The third jar on the right contains a \$1000 bill and several coins. In the top right corner, there are three more coins. The background is a warm, brownish-orange color.

Earnings Data & Corporate Trends

John Deere, Raytheon, Marvell Tech

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John Deere

Can The Industrials Boom Last?

PAY

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Deere Earnings Highlights & Stock Performance

Management Commentary From Q1 2023 Earnings Call

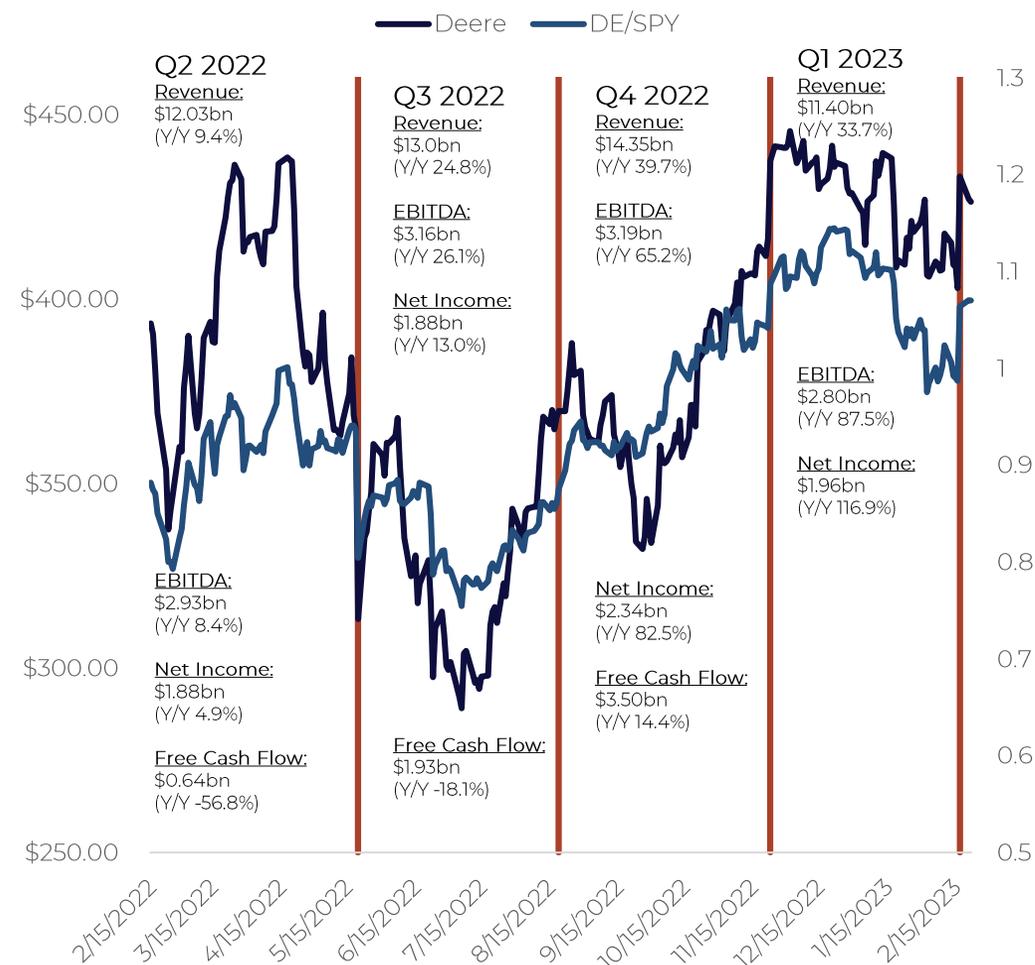
- **Fundamental Dynamics:** The dynamics of strong ag fundamentals, advanced fleet age and low field inventory all remain.
- **Smaller Tractors:** Demand for consumer-oriented products such as compact tractors under 40-horsepower has softened considerably since last year.
- **Construction & Industry:** End markets for earthmoving and compact equipment is expected to remain strong. While housing has softened, infrastructure, the oil and gas sector, and robust CapEx programs from the independent rental companies have continued to support demand.
- **Grain Prices:** While grain prices have come off peak levels, input costs have also declined, keeping margin at supportive levels there.
- **Segments:** If we dissect the segment, around 2/3 of our sales are linked to products tied to ag production systems like dairy and livestock, hay and forage and high-value crops. The remainder is tied more to consumer-oriented products.

	P/E	P/S	Market Cap/FCF	EV/EBITDA	P/B
NTM	13.77	2.27	10.68	13.84	NA
TTM	15.49	2.22	50.48	14.52	5.82

*Levered FCF

Sources: Deere IR, TIKR, Blue Line Capital

Quarterly Data



Deere Expectations & Returns

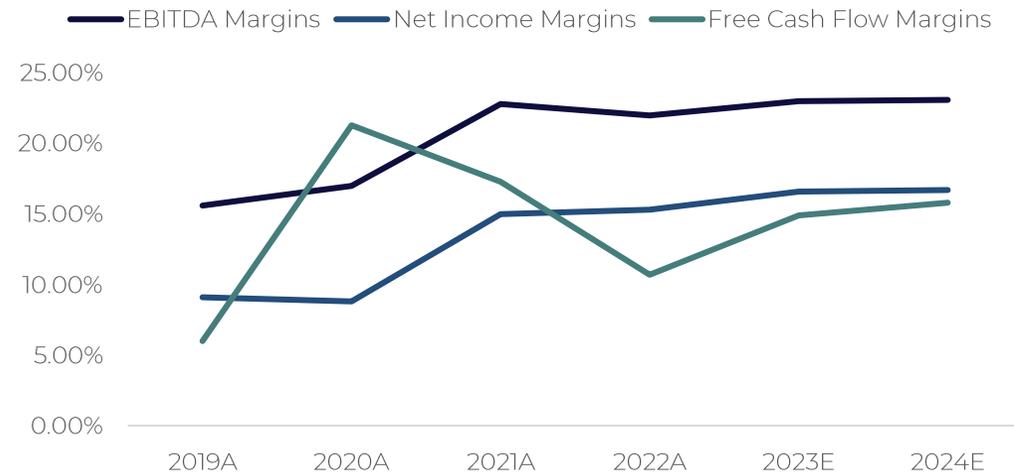
Return Ratios Compared To 2019

Return and profit ratios have improved across the board compared to 2019 levels.

		LTM	2019
Return Ratios	RoA	8.10%	3.80%
	RoC	14.70%	7.50%
	RoE	41.70%	28.70%
Margins	Gross Profit Margin	28.70%	23.40%
	EBITDA Margin	21.80%	13.20%
	Net Income Margin	14.70%	8.30%
	Levered Free Cash Flow Margin	4.40%	-1.50%
Asset Turnover	Asset Turnover	0.61	0.54
	Fixed Asset Turnover	9.21	6.68
	Receivables Turnover	8.05	6.59
	Working Capital Turnover	1.62	1.5
Solvency	Total Debt/Equity	252.20%	397.50%
	Total Debt/Capital	71.10%	79.20%
	EBITDA/Interest Expense	52.93	26.63
	(EBITDA/Capex)/Interest Expense	35.39	11.77

Sources: Deere IR, TIKR, Blue Line Capital

Revenue and Net Income Estimates



Deere Valuation Vs. Peers

	EV/EBITDA	NTM P/E	Past 3M Return	Past 6m Return	Past 12m Return
Deere (DE)	13.84	13.77	-5%	10%	17%
Caterpillar (CAT)	13.15	14.87	0%	23%	9%
AGCO Corp (AGCO)	6.42	10.28	5%	26%	9%
Illinois Tool Works (ITW)	17.47	24.44	2%	17%	12%
Paccar (PCAR)	10.64	11.26	3%	21%	25%
Terex (TEX)	8.35	11.96	28%	67%	65%
Lindsay Corp (LNN)	13.26	21.62	-16%	-8%	19%
Median	13.15	13.77	2%	21%	17%
Mean	11.88	15.46	2%	22%	22%

Sources: TIKR, Google Finance, Blue Line Capital

2/25/2023

Blue Line Capital maintains no position in Deere.

24

BLUE LINE CAPITAL



Raytheon

Defense Spending Amidst Geopolitical Turmoil

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Raytheon Earnings Highlights & Stock Performance

Management Commentary From Q4 2022 Earnings Call

- **Backlog:** In 2022, we captured \$86bn in new backlog, resulting in backlog growth of 12%, a book-to-bill of 1.28 and a near record backlog at the end of the year of \$175bn.
- **Ukraine War:** From the Stinger, Javelin and Excalibur to NASAMS and now Patriot air and missile defense system, we remain in lockstep with the US Government.
- **Hybrid Engine:** We also completed the first engine test run for our regional hybrid electric flight demonstrator. This system integrates 1-megawatt electric motor, which was developed by Collins with a highly efficient Pratt & Whitney fuel burning engine, specifically adapted for hybrid electric.
- **Defense Spending:** US Adoption of the defense authorization bill and the Omnibus Appropriations bill with a budget of \$858bn, which is up 10% from 2022. The EU is targeting a EUR70bn increase in defense spending over the next 3 years and Japan will increase their defense budget by 26% this year.

	P/E	P/S	Market Cap/FCF	EV/EBITDA	P/B
NTM	19.83	2.01	30.02	13.46	NA
TTM	28.38	2.17	22.27	15.3	2.01

*Levered FCF

Sources: Raytheon IR, TIKR, Blue Line Capital

Quarterly Data



Raytheon Expectations & Returns

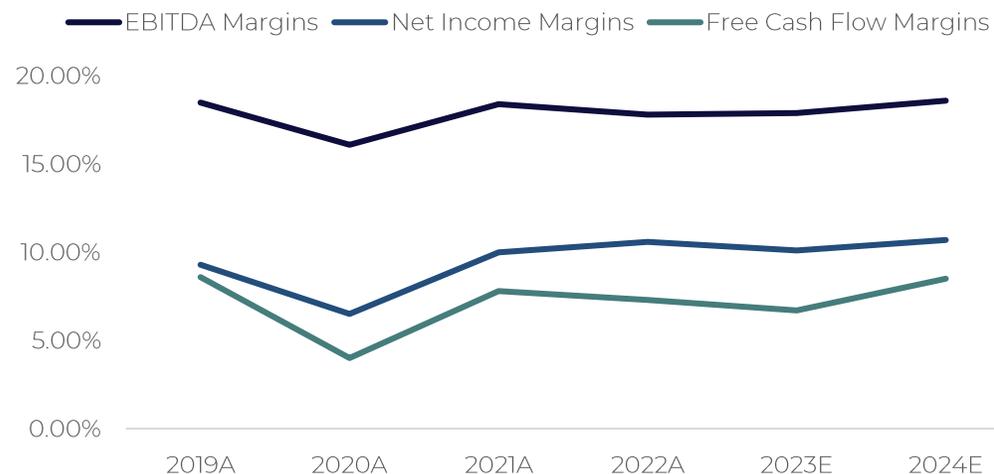
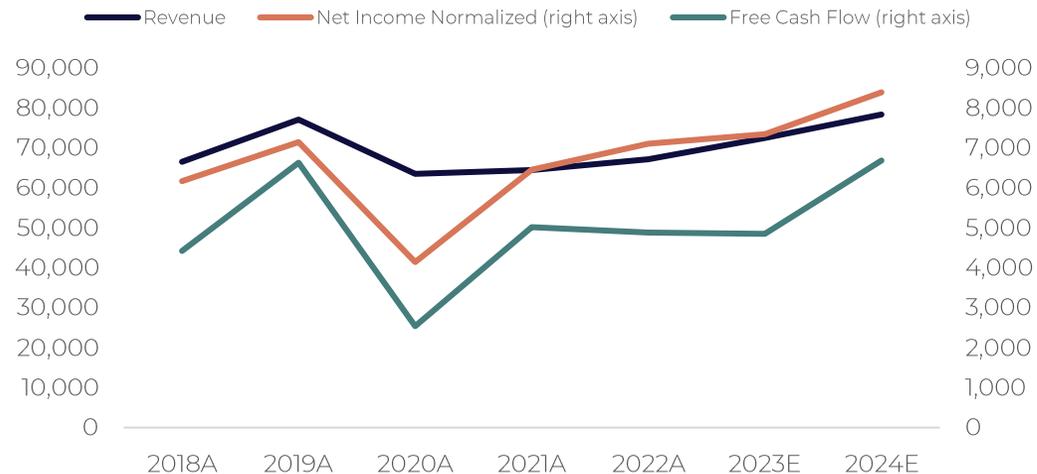
Return Ratios Compared To 2019

Raytheon's margins are experiencing some pressure while solvency and asset turnover ratios are improving.

		LTM	2019
Return Ratios	RoA	2.80%	2.60%
	RoC	6.70%	6.40%
	RoE	7.20%	8.80%
Margins	Gross Profit Margin	20.40%	24.10%
	EBITDA Margin	16.90%	18.60%
	Net Income Margin	7.70%	12.20%
	Levered Free Cash Flow Margin	9.10%	-22.60%
Asset Turnover	Asset Turnover	0.42	0.32
	Fixed Asset Turnover	3.95	3.8
	Receivables Turnover	3.22	2.93
	Inventory Turnover	5.4	3.6
Solvency	Total Debt/Equity	45.60%	100.60%
	Total Debt/Capital	31.30%	50.10%
	EBITDA/Interest Expense	9.08	5.12
	(EBITDA-Capex)/Interest Expense	7.32	4.03

Sources: Raytheon IR, TIKR, Blue Line Capital

Revenue, Net Income, and FCF Estimates



Raytheon Valuation Vs. Peers

	EV/EBITDA	NTM P/E	Past 3M Return	Past 6m Return	Past 12m Return
Raytheon (RTX)	13.46	19.83	2%	7%	5%
General Dynamics (GD)	13.83	18.17	-9%	0%	3%
Lockheed Martin (LMT)	13.93	17.95	-1%	11%	9%
Northrop Grumman	15.79	21.34	-11%	-3%	1%
L3Harris (LHX)	13.15	17.11	-8%	-10%	-13%
TransDigm (TDG)	17.99	31.65	17%	18%	23%
Howmet (HWM)	14.84	25.68	10%	14%	17%
Median	13.93	19.83	-1%	7%	5%
Mean	14.71	21.68	0%	5%	6%

Sources: TIKR, Google Finance, Blue Line Capital

2/25/2023

Blue Line Capital maintains a long position in Raytheon.

28

BLUE LINE CAPITAL

The image features three glass jars with metal lids, each containing a different amount of money. The first jar on the left contains a single one-dollar bill and several coins. The middle jar contains a five-dollar bill and several coins. The third jar on the right contains a ten-dollar bill and several coins. The jars are set against a dark, textured background. The text 'Marvell Technology' is overlaid in the center, with 'The Semiconductor Demand & Supply Cycle' below it. At the bottom, the words 'PAY', 'SAVE', and 'INVEST' are written in large, bold, dark letters, corresponding to the three jars. In the top right corner, there are three coins scattered together.

Marvell Technology

The Semiconductor Demand & Supply Cycle

PAY

SAVE

INVEST

Marvell Earnings Highlights & Stock Performance

Management Commentary From Q3 2023 Earnings Call

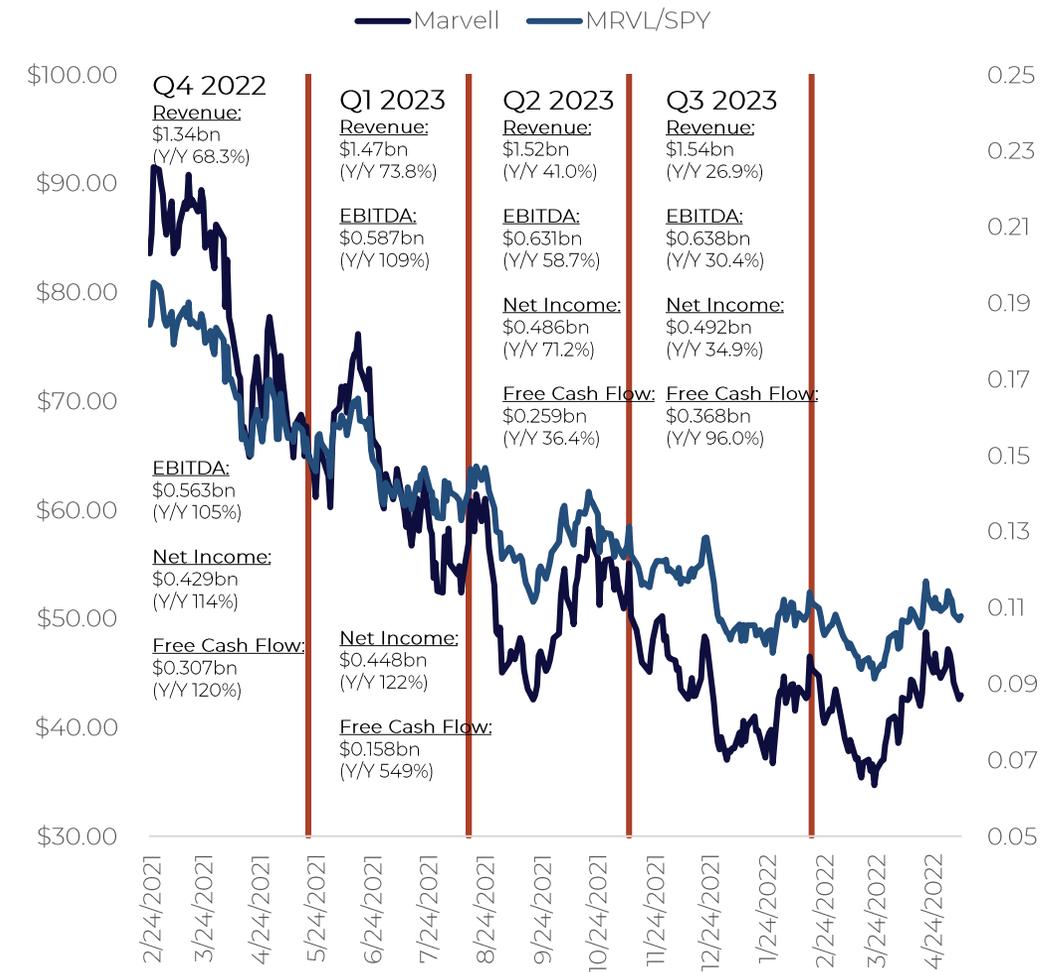
- **Customer Inventory:** Customers started requesting to push out shipments and reschedule orders to manage their inventory in a changing demand environment. In the third quarter, these inventory reductions started to manifest. We are projecting very large reduction in shipments of our HDD controllers and preamps, as HDD OEMs deal with a broad-based inventory correction.
- **China:** Our Chinese customers deal with a changing macroeconomic situation, their demand for our products has come down significantly.
- **Security Solution:** Launched our next-generation cloud security solution, Marvell's LiquidSecurity HSM adapter, the industry's most advanced solution for enabling encryption, key management and authentication in the cloud. Powered by Marvell's cloud optimized OCTEON DPU, LS2 is a converged security platform for payment, privacy compliance and general-purpose applications.
- **Security Solution:** Extension of collaboration with Nokia to advance 5G chipset portfolio.

	P/E	P/S	Market Cap/FCF	EV/EBITDA	P/B
NTM	23.46	6.48	16.72	19.61	NA
TTM	-262.29	6.4	19.75	22.9	2.4

*Levered FCF

Sources: Marvell IR, TIKR, Blue Line Capital

Quarterly Data



Marvell Expectations & Returns

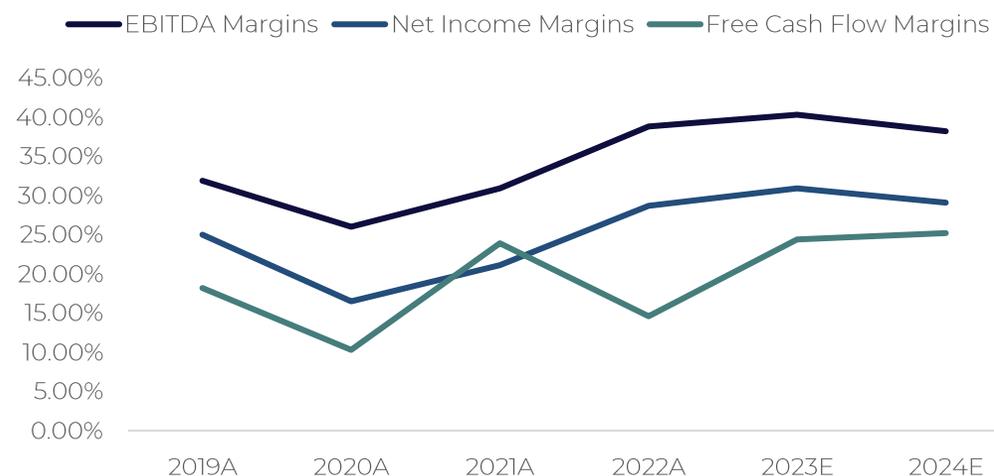
Return Ratios Compared To 2019

Return and Margin Ratios have compressed since 2019 while solvency ratios have improved.

		LTM	2019
Return Ratios	RoA	1.10%	3.40%
	RoC	2.00%	4.30%
	RoE	-0.90%	-3.10%
Margins	Gross Profit Margin	51.80%	58.70%
	EBITDA Margin	31.00%	24.60%
	Net Income Margin	-2.40%	-6.20%
	Levered Free Cash Flow Margin	32.40%	19.70%
Asset Turnover	Asset Turnover	0.26	0.29
	Fixed Asset Turnover	8.85	11
	Receivables Turnover	4.93	7.41
	Inventory Turnover	3.55	5.31
Solvency	Total Debt/Equity	30.50%	23.70%
	Total Debt/Capital	23.30%	18.70%
	EBITDA/Interest Expense	12.04	11.67
	(EBITDA/Capex)/Interest Expense	10.81	10.41

Sources: Marvell IR, TIKR, Blue Line Capital

Revenue, Net Income, and FCF Estimates



Marvell Vs. Peers

	EV/EBITDA	NTM P/E	Past 3M Return	Past 6m Return	Past 12m Return
Marvell Tech (MRVL)	19.61	23.46	2%	-13%	-26%
Nvidia (NVDA)	55.95	52.27	43%	43%	25%
Broadcom (AVGO)	12.08	14.17	9%	11%	0%
Texas Instruments (TXN)	16.13	22.19	-4%	0%	-4%
Qualcomm (QCOM)	9.64	12.34	1%	-10%	-13%
Applied Materials (AMAT)	13.94	17.47	5%	13%	-5%
Analog Devices (ADI)	15.01	17.39	9%	15%	9%
Median	15.01	17.47	5%	11%	-4%
Mean	20.34	22.76	9%	8%	-2%

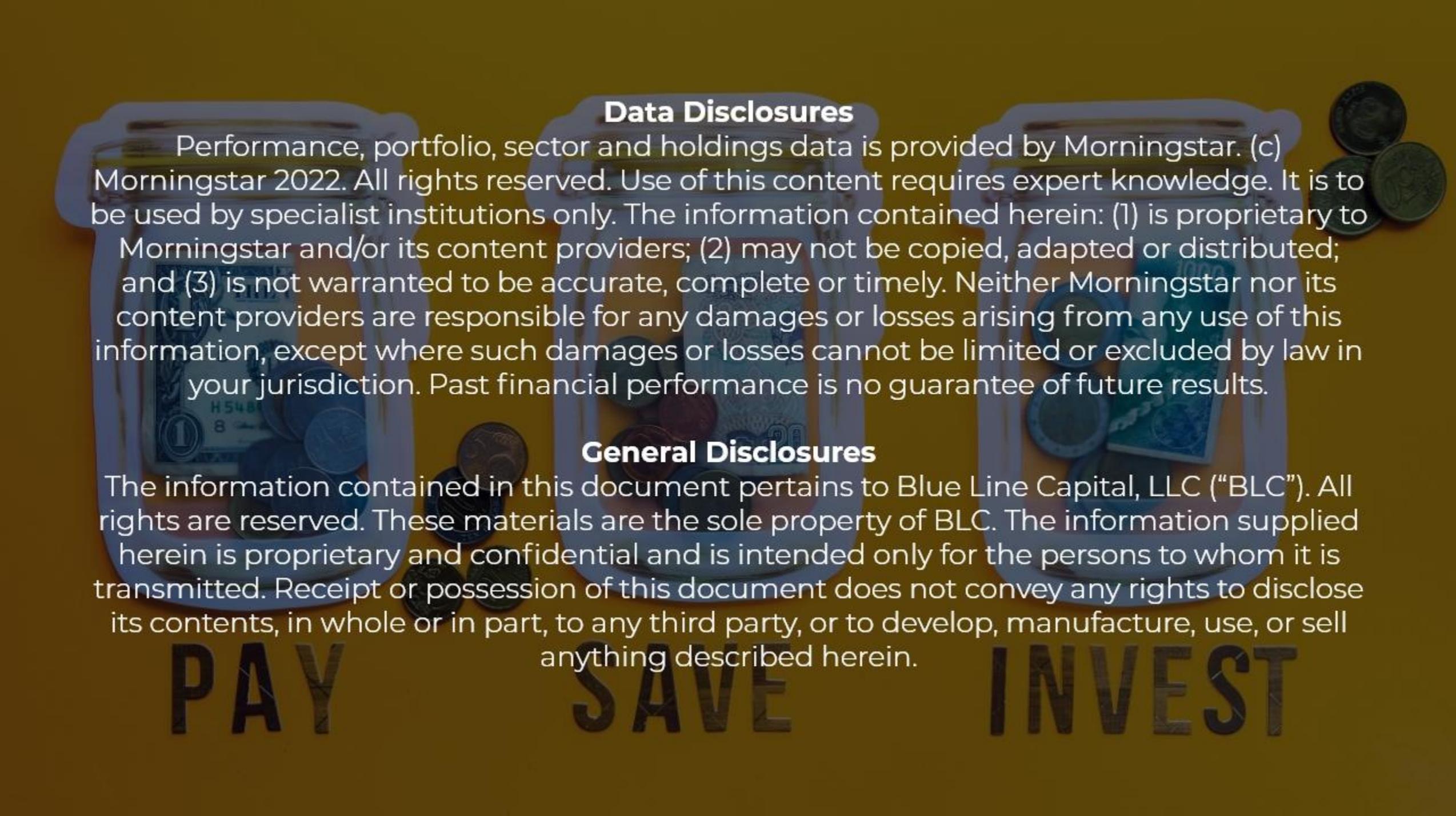
Sources: TIKR, Google Finance, Blue Line Capital

2/25/2023

Blue Line Capital maintains no position in Marvell.

32

BLUE LINE CAPITAL

The image features three glass jars filled with US currency, including one-dollar bills and various coins. The jars are arranged horizontally across the top half of the page. The background is a dark, textured brown. The text is overlaid on the jars and background. The words 'PAY', 'SAVE', and 'INVEST' are written in large, bold, dark letters at the bottom of the page, corresponding to the three jars.

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PAY

SAVE

INVEST