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Welcome to Issue #39 of PNC's Metals Industry Update.

2022 came to a grinding finish; metals prices continued their general decline, the bond market had little to no activity and the syndicated loan market for metals had its weakest quarter of the year. While we may hope for improvement in 2023, we see limited reasons for optimism.

Our cover story from PNC economist Abbey Omodunbi provides a cautious outlook for the year. Abbey has a mild recession in his base case, a decline in demand from some important steel-consuming U.S. end markets, offset by an economic recovery in China. Abbey points out that the World Steel Association predicts global steel consumption will grow 1% in 2023 after declining 2.3% in 2022. While we don't expect the economy will provide any tailwinds for industry financial performance, exceptional financial performance from most participants in 2021 and 2022 has left the industry well positioned to navigate what lies ahead.

Thank you for being a reader of PNC's *Metals Industry Update*. Our goal is to provide content that can help you stay abreast of market conditions. We appreciate your feedback on how we are doing. We encourage you to share any thoughts or observations on how we can improve.

CHINA REOPENING TO SUPPORT METAL PRICES WHILE GLOBAL ECONOMY SLOWS IN 2023

Summary

- Lukewarm global economic growth and China's reopening to support base metals demand.
- The outlook for U.S. construction is weak and total auto sales will fall this year.
- The World Steel Association forecasts global steel demand will grow 1% in 2023.

Many base metals had a volatile 2022. The Russian invasion of Ukraine pushed up prices in the first half of 2022, while aggressive monetary policy tightening by many major central banks, a weak Chinese economy, and elevated global recession risks drove the sharp decline in prices in the second half of the year. Hot-rolled coil steel peaked at \$1,535 per ton in March before closing the year at \$744. Aluminum peaked at \$3,878 per ton in March before dropping to \$2,349 at the end of 2022. PNC's baseline forecast calls for a mild recession in the U.S. this year as the Fed pushes up interest rates further, the housing downturn continues and global economic growth slows.



CHINA REOPENING TO SUPPORT METAL PRICES WHILE GLOBAL ECONOMY SLOWS IN 2023 (Continued)

Global recession fears are elevated in early 2023 as many central banks continue their hiking cycles to fight inflation. The U.K. economy contracted in the third quarter on a quarter-over-quarter basis thanks to higher interest rates, inflation and a weaker global economy; PNC forecasts a yearlong recession in the U.K., which likely started in the third quarter of 2022. The eurozone economy will likely experience a policy-driven shallow recession starting in the first quarter of 2023 as the European Central Bank (ECB) raises interest rates higher. The eurozone likely avoided a recession at the end of last year due to a mild winter and higher-thanaverage gas storage levels. China's reopening will be a slight boost to the global economy, but increased risks of a new COVID outbreak, slower growth in domestic consumer spending, and a still-weak housing sector will temper economic activity. The World Bank forecasts global real GDP growth of 1.7% in 2023 and 2.7% in 2024.

The decline in global manufacturing activity (Chart 1) will continue in 2023 as higher interest rates weigh on the demand for durable goods, inflationary pressures continue and labor shortages persist, although improved supply-chain networks will limit the contraction. Lower U.S. steel capacity utilization (Chart 2), high steel production in China and weak global demand will limit price growth for U.S. steel in 2023. The World Steel Association (WSA) forecasts that global steel demand will grow 1% this year after contracting 2.3% in 2022.

Higher mortgage rates and deteriorating affordability will continue to weigh on U.S. homebuilding (Chart 3), putting downward pressures on the demand for metals with heavy use in construction such as steel, iron, aluminum and lead. Higher borrowing costs will lead to a decline in investment in nonresidential structures (Chart 4) but infrastructure spending from bills passed in 2021 and 2022 (Inflation Reduction Act, the CHIPS and Science Act, and the Infrastructure Investment and Jobs Act) should provide some support in 2024.

Sales of electric and hybrid vehicles should increase this year thanks to the green energy transition but total sales in the automotive sector will likely decline **(Chart 5)** in 2023, in large part due to higher financing costs, before rebounding in 2024 when the U.S. economy is expected to recover. China is the biggest consumer of base metals, and a strong rebound in its economy this year will be bullish for base metals. This may be why forecasters **(Chart 6)** expect a 30% increase in the price of hot-rolled coil steel in the U.S. in 2023.

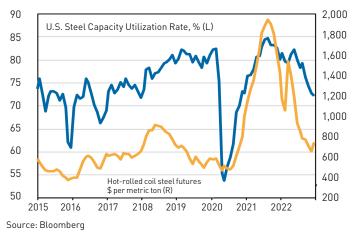


CHINA REOPENING TO SUPPORT METAL PRICES WHILE GLOBAL ECONOMY SLOWS IN 2023 (Continued)

CHART 1: GLOBAL MANUFACTURING SLUMP TO DEEPEN

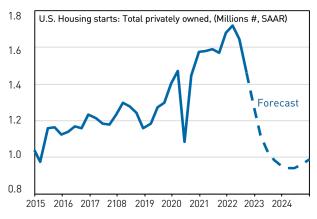


CHART 2: HOT-ROLLED COIL STEEL PRICES HAVE SLUMPED



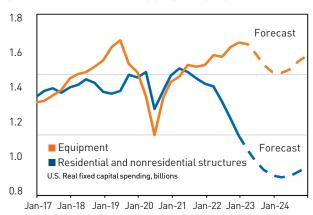
Sources: CFLP, ISM, EU EcFin

CHART 3: HOUSING MARKET WILL SLOW FURTHER



Sources: Moody's Analytics, PNC Economics Dec. 2022 forecast

CHART 4: PULLBACK IN CONSTRUCTION EXPECTED TO CONTINUE



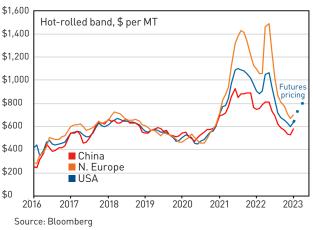
Sources: BEA, Moody's Analytics, PNC Economics Dec. 2022 forecast

CHART 5: AUTO SALES ARE HEADED LOWER



Sources: Moody's Analytics, PNC Economics Dec. 2022 forecast

CHART 6: FUTURES MARKETS ARE BULLISH ON STEEL



Visit http://www.pnc.com/economicreports to view the full listing of economic reports published by PNC's economists.

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METALS PRICING

Metals pricing during fourth quarter 2022 remained generally in a downward trend. Of the 21 product prices we track, 15 finished the quarter below where they started, three remained flat (we considered the \$.01 change in 3003 aluminum as flat) and three increased. The only products able to muster an increased price were Comex copper, nickel and iron ore pellets. There were some interesting observations during the guarter.

- Carbon flat-roll steel prices increased in December off an apparent November bottom on the strength of price increases from the major sheet mills.
- Spreads for CRC and Galv eroded another \$75 per ton in the quarter and are now \$175 per ton lower than much of the first half of 2022.
- Ni prices increased 31% during the quarter.
- Rebar prices declined \$2 per HWT but remain \$275 per ton higher than HRC. Just another reminder that supply and demand works.
- Ferrous scrap prices ended seven consecutive monthly price declines with a \$20 per ton price increase in December.

Below is the price detail for all the products we follow.

| Carbon Flat-Rolled Steel \$/NT October–December 2022 | | | | |
|---|---------|----------|----------|--|
| Product | October | November | December | |
| Hot-Rolled | 775 | 610 | 680 | |
| Cold-Rolled | 1,150 | 930 | 980 | |
| Galvanized | 1,250 | 1,030 | 1,080 | |

| Discrete Plate \$/NT October-December 2022 | | | |
|---|---------|----------|----------|
| Product | October | November | December |
| A36 | 1,620 | 1,620 | 1,480 |
| A514 | 2,435 | 2,435 | 2,295 |
| AR400 | 2,455 | 2,455 | 2,315 |

| Wide Flange Beam \$/cwt. October-December 2022 | | | | |
|---|---------|----------|----------|--|
| Size | October | November | December | |
| 24"x12 ³ / ₄ " | 70.25 | 69.25 | 66.00 | |
| 18"x6" | 68.25 | 67.25 | 64.00 | |

| MBQ \$/cwt. October-December 2022 | | | |
|--------------------------------------|---------|----------|----------|
| Shape | October | November | December |
| 1" 1018 round | 59.25 | 56.25 | 55.00 |

| Rebar \$/cwt. – Grade 60 October–December 2022 | | | | | |
|---|--|--|--|--|--|
| Size October November December | | | | | |
| 16 mm - #5 49.50 48.25 47.50 | | | | | |
| | | | | | |

| SBQ \$/cwt. – 1" round October–December 2022 | | | | |
|---|--------|--------|--------|--|
| Grade October November December | | | | |
| HR 4140 Q&T | 105.10 | 104.10 | 102.60 | |

| Pipe & Tube \$/NT October-December 2022 | | | |
|--|---------|----------|----------|
| Product | October | November | December |
| OCTG J55 | 2,250 | 2,250 | 2,175 |
| Linepipe, ERW | 1,500 | 1,450 | 1,425 |

| Aluminum \$/lb October-December 2022 | | | | |
|---|--|--|--|--|
| Alloy October November December | | | | |
| 3003 2.19 2.16 2.20 | | | | |
| | | | | |

| Stainless \$/lb – Cold-Rolled Coil October–December 2022 | | | | |
|---|------|------|------|--|
| Grade October November December | | | | |
| 304 | 2.05 | 1.94 | 2.01 | |

| Copper \$/lb October-December 2022 | | | | |
|------------------------------------|------|------|------|--|
| October November December | | | | |
| Comex Avg. | 3.47 | 3.68 | 3.82 | |

| Nickel \$/lb October-December 2022 | | | | |
|---------------------------------------|------|-------|-------|--|
| October November December | | | | |
| LME Avg. | 9.94 | 11.45 | 13.08 | |

| Ferrous Scrap \$/GT Midwest October-December 2022 | | | |
|---|---------|----------|----------|
| GRADE | October | November | December |
| No. 1 HMS | 315 | 295 | 315 |
| Shredded | 385 | 365 | 385 |

| Iron Ore \$/LT U.S. October-December 2022 | | | | | | | |
|--|--|--|--|--|--|--|--|
| GRADE October November December | | | | | | | |
| Furnace Pellets 95 100 100 | | | | | | | |

| Met Coal \$/MT U.S. East Coast October-December 2022 | | | | | | | | |
|--|--|--|--|--|--|--|--|--|
| GRADE October November December | | | | | | | | |
| Low-vol 285 285 255 | | | | | | | | |



PRICING FOR PUBLIC NOTES AND BONDS

METALS BOND UPDATE: GLOBAL VOLATILITY DAMPENS INVESTMENT GRADE & HIGH YIELD VOLUME IN 2022

Following a record 2021 for primary Investment Grade and High Yield volume, lofty supply expectations for 2022 quickly unraveled following Russia's invasion of Ukraine in late February and 40-year high CPI prints in first quarter. The Fed's mandate of controlling inflation went into full effect, prompting seven consecutive Fed Funds rate hikes totaling 425 bps. As heightened volatility and rising borrowing costs created dislocation in the markets, Investment Grade volume (\$1.22trn) ended down 18% Y/o/Y, while High Yield volume (\$101BN) finished down nearly 80%. Issuers that had to tap the market were able to find constructive windows, but terms favored investors (especially in the High Yield market) and many issuers elected to reduce tenor and/or offer security to boost investor demand.

The average Investment Grade new issue concession and order book subscription level finished 2022 at 11 bps and 3x, respectively. During Q4, A-rated and BBB-rated credit spreads tightened 10 bps and 47 bps, respectively, while total IG new issue volume of \$195BN was the lowest quarterly tally of 2022. ArcelorMittal was the only Investment Grade Metals issuer in Q4, pricing \$1.2BN of Baa3/BBB-rated 6.550% 2027 notes at T+255 bps and \$1.0BN of 6.800% 2032 notes at T+305 bps on 11/29/22. Looking specifically at the PNC IG Metals Bond Index, yields tightened 0.61% and spreads tightened 25 bps in 4Q22.

High Yield volume of just \$15BN in Q4 was down from \$18BN in Q3 and declined 78% Y/o/Y. Amidst rising interest rate uncertainty, issuers elected to reduce tenor on new deals — over 50% of issuers elected to price 5NC2 offerings in Q4. BB-rated yields declined 54 bps and B-rated yields tightened 57 bps on average. Compared to the previous quarter, average yields of companies in the PNC HY Metals Bond Index tightened by 155 basis points while spreads tightened 132 bps. There were no High Yield Metals deals announced in 4Q22.

METALS BOND INDEX*

| | PNC IG | Metals Bond | Index | PNC HY Metals Bond Index | | | |
|--|-----------|-------------|--------|--------------------------|------------|--------|--|
| As of Date | 1/11/2023 | 10/14/2022 | Change | 1/11/2023 | 10/14/2022 | Change | |
| Effective Maturity (Years) | 9.30 | 9.63 | -0.33 | 5.66 | 6.26 | -0.60 | |
| Composite Rating | BBB+ | BBB+ | - | BB- | BB- | - | |
| Weighted Average Coupon | 4.18% | 3.78% | 0.39% | 5.53% | 6.26% | -0.73% | |
| Yield to Worst | 5.15% | 5.76% | -0.61% | 6.37% | 7.92% | -1.55% | |
| Option Adjusted Spread to Treasuries (bps) | 132.1 | 157.0 | -24.9 | 233.7 | 366.2 | -132.5 | |

^{*}Index members are market-value weighted.

Note: PNC IG Metals Bond Index excludes bonds of size less than \$250 million.

Source: Bloomberg



METALS BOND UPDATE

| | | Amount Outstanding (\$MM) Structure | | Moody's Rating | S&P Rating | Maturity | Coupon Rate | Price at Issuance | Issuance Spread over Treasury | As of 1/11/2023 | | | Since 10/14/2022 | |
|--|---|---|--|---|---|--|--|--|--|---|--|--|--|--|
| Issuance Date | Issuer | | Structure | | | | | | | Yield to Worst | Spread (OAS) | 10/14 Spread | Change in Spread (bps) | %Change in Spread |
| | Steel Mills | | | | | | | | | | | | | |
| 3/11/2019 | ArcelorMittal SA | \$401 | Sr Unsecured | Baa3 | BBB- | 3/11/2026 | 4.550% | 99.72 | 200 bps | 5.163% | 134 bps | 169 bps | -35 bps | -20.6% |
| 11/29/2022 | ArcelorMittal SA | \$1,200 | Sr Unsecured | Baa3 | BBB- | 11/29/2027 | 6.550% | 99.91 | 255 bps | 5.748% | 209 bps | - | - | - |
| 7/16/2019 | ArcelorMittal SA | \$500 | Sr Unsecured | Baa3 | BBB- | 7/16/2029 | 4.250% | 99.00 | 225 bps | 5.782% | 222 bps | 216 bps | 5 bps | 2.5% |
| 1/29/2022 | ArcelorMittal SA | \$1,000 | Sr Unsecured | Baa3 | BBB- | 11/29/2032 | 6.800% | 99.37 | 305 bps | 6.304% | 274 bps | - | - | - |
| 3/7/2011 | ArcelorMittal SA | \$434 | Sr Unsecured | Baa3 | BBB- | 3/1/2041 | 6.750% | 99.18 | 230 bps | 6.580% | 282 bps | 356 bps | -74 bps | -20.8% |
| 3/13/2020 | Cleveland-Cliffs Inc | \$829 | 1st lien | B2 | BB | 3/15/2026 | 6.750% | 100.00 | 606 bps | 5.934% | 143 bps | 245 bps | -102 bps | -41.5% |
| 5/13/2019 | Cleveland-Cliffs Inc | \$555 | Sr Unsecured | Ba3 | B+ | 6/1/2027 | 5.875% | 96.13 | #N/A N/A | 6.334% | 161 bps | 348 bps | -187 bps | -53.7% |
| 2/17/2021 | Cleveland-Cliffs Inc | \$370 | Sr Unsecured | Ba3 | N/A | 3/1/2029 | 4.625% | 100.00 | 368 bps | 6.088% | 222 bps | 347 bps | -125 bps | -36.1% |
| 2/17/2021 | Cleveland-Cliffs Inc | \$339 | Sr Unsecured | Ba3 | N/A | 3/1/2031 | 4.875% | 100.00 | 374 bps | 6.219% | 248 bps | 337 bps | -88 bps | -26.2% |
| 1/28/2022 | Commercial Metals Co | \$300 | Sr Unsecured | Ba2 | BB+ | 1/15/2030 | 4.125% | 100.00 | #N/A N/A | 5.766% | 196 bps | 323 bps | -127 bps | -39.2% |
| 2/2/2021 | Commercial Metals Co | \$300 | Sr Unsecured | Ba2 | BB+ | 2/15/2031 | 3.875% | 100.00 | 279 bps | 5.905% | 225 bps | 322 bps | -97 bps | -30.1% |
| 1/28/2022 4/16/2014 | Commercial Metals Co GTL Trade Finance Inc | \$300 | Sr Unsecured | Ba2 Baa3 | BB+ BBB- | 3/15/2032 4/16/2044 | 4.375% 7.250% | 100.00 100.00 | #WA WA | 5.926% | 240 bps | 338 bps | -98 bps | -29.0% |
| 5/23/2022 | Nucor Corp | \$500 \$500 | Sr Unsecured Sr Unsecured | Baa1 | A- | 5/23/2025 | 3.950% | 99.94 | 368 bps 115 bps | 5.928% 4.700% | 216 bps 63 bps | 279 bps 81 bps | -63 bps -18 bps | -22.6% -22.4% |
| 5/22/2020 | Nucor Corp | \$500 | Sr Unsecured | Baa1 | A- | 6/1/2025 | 2.000% | 99.85 | 170 bps | 4.700% | 78 bps | 97 bps | -10 bps | -19.4% |
| 5/23/2022 | Nucor Corp | \$500 | Sr Unsecured | Baa1 | A- | 5/23/2027 | 4.300% | 99.84 | 145 bps | 4.525% | 82 bps | 118 bps | -36 bps | -30.3% |
| 4/26/2018 | Nucor Corp | \$500 | Sr Unsecured | Baa1 | A- | 5/1/2028 | 3.950% | 99.85 | 100 bps | 4.759% | 113 bps | 148 bps | -35 bps | -23.8% |
| 5/22/2020 | Nucor Corp | \$500 | Sr Unsecured | Baa1 | A- | 6/1/2030 | 2.700% | 99.72 | 205 bps | 4.740% | 121 bps | 168 bps | -46 bps | -27.6% |
| 3/11/2022 | Nucor Corp | \$550 | Sr Unsecured | Baa1 | A- | 4/1/2032 | 3.125% | 99.67 | 130 bps | 4.701% | 118 bps | 178 bps | -60 bps | -33.7% |
| 3/11/2022 | Nucor Corp | \$550 | Sr Unsecured | Baa1 | A- | 4/1/2052 | 3.850% | 99.07 | 165 bps | 5.052% | 132 bps | 191 bps | -58 bps | -30.7% |
| 12/7/2020 | Nucor Corp | \$329 | Sr Unsecured | Baa1 | Α- | 12/15/2055 | 2.979% | 99.29 | 130 bps | 5.142% | 135 bps | 196 bps | -62 bps | -31.4% |
| 12/11/2019 | Steel Dynamics Inc | \$400 | Sr Unsecured | Baa3 | BBB- | 12/15/2024 | 2.800% | 99.93 | 115 bps | 4.518% | 87 bps | 97 bps | -10 bps | -10.5% |
| 6/5/2020 | Steel Dynamics Inc | \$400 | Sr Unsecured | Baa3 | BBB- | 6/15/2025 | 2.400% | 99.62 | 210 bps | 4.730% | 86 bps | 125 bps | -39 bps | -31.0% |
| 12/6/2016 | Steel Dynamics Inc | \$400 | Sr Unsecured | Baa3 | BBB- | 12/15/2026 | 5.000% | 100.00 | 266 bps | 4.040% | -41 bps | 121 bps | -161 bps | -133.8% |
| 10/9/2020 | Steel Dynamics Inc | \$350 | Sr Unsecured | Baa3 | BBB- | 10/15/2027 | 1.650% | 99.30 | 120 bps | 4.798% | 127 bps | 180 bps | -53 bps | -29.4% |
| 12/11/2019 | Steel Dynamics Inc | \$600 | Sr Unsecured | Baa3 | BBB- | 4/15/2030 | 3.450% | 99.74 | 165 bps | 4.798% | 138 bps | 209 bps | -71 bps | -34.2% |
| 6/5/2020 | Steel Dynamics Inc | \$500 | Sr Unsecured | Baa3 | BBB- | 1/15/2031 | 3.250% | 98.96 | 260 bps | 4.798% | 146 bps | 217 bps | -70 bps | -32.5% |
| 10/9/2020 | Steel Dynamics Inc | \$400 | Sr Unsecured | Baa3 | BBB- | 10/15/2050 | 3.250% | 96.33 | 185 bps | 4.798% | 163 bps | 228 bps | -66 bps | -28.9% |
| 2/11/2021 | United States Steel Corp | \$475 | Sr Unsecured | B1 | BB- | 3/1/2029 | 6.875% | 100.00 | 592 bps | 6.914% | 225 bps | 441 bps | -216 bps | -49.0% |
| 5/21/2007 9/18/2020 | United States Steel Corp Big River Steel LLC | \$274 \$720 | Sr Unsecured Secured | B1 Ba2 | BB- BB- | 6/1/2037 1/31/2029 | 6.650% 6.625% | 99.41 100.00 | 180 bps 604 bps | 7.189% 7.004% | 342 bps 268 bps | 458 bps 418 bps | -117 bps -150 bps | -25.4% -35.9% |
| 3/10/2020 | | Ψ/20 | Secured | Daz | DD- | 175172025 | 0.02370 | 100.00 | 004 bp3 | 7.00470 | 200 003 | 410 bps | - 100 bps | -33.970 |
| | Distribution | | | | | | | | | | | | | |
| 4/12/2013 | Reliance Steel & Aluminum Co | \$500 | Sr Unsecured | Baa2 | BBB | 4/15/2023 | 4.500% | 99.59 | 280 bps | 4.451% | -5 bps | 107 bps | -112 bps | -104.7% |
| 8/3/2020 | Reliance Steel & Aluminum Co | \$400 | Sr Unsecured | Baa2 | BBB | 8/15/2025 | 1.300% | 99.69 | 110 bps | 4.807% | 83 bps | 120 bps | -37 bps | -30.7% |
| 8/3/2020 11/20/2006 | Reliance Steel & Aluminum Co Reliance Steel & Aluminum Co | \$500 \$350 | Sr Unsecured | Baa2 Baa2 | BBB BBB | 8/15/2030 11/15/2036 | 2.150% 6.850% | 99.72 99.43 | 160 bps | 5.055% | 153 bps | 211 bps | -58 bps | -27.6% |
| 4/15/2014 | Worthington Industries Inc | \$250 \$250 | Sr Unsecured Sr Unsecured | Baa2 | BBB *- | 4/15/2026 | 4.550% | 99.43 | 220 bps 195 bps | 6.012% 5.108% | 242 bps 125 bps | 270 bps 140 bps | -28 bps -15 bps | -10.3% -10.6% |
| | Specialty | | | | | | | | | | · · · · · · · · · · · · · · · · · · · | | · · | |
| 5/13/2020 | Arconic Corp | \$700 | 1st lien | Ba1 | BB+ | 5/15/2025 | 6.000% | 100.00 | 563 bps | 6.003% | 139 bps | 291 bps | -152 bps | -52.4% |
| 2/7/2020 | Arconic Corp | \$900 | 2nd lien | NR | B+ | 2/15/2028 | 6.125% | 100.00 | 457 bps | 6.741% | 257 bps | 433 bps | TOE DPO | -40.7% |
| | | | | | | | | | | | _0. bpc | | -176 bps | |
| 9/22/2014 | | \$1.090 | | | | | | | | | 84 bps | | -176 bps | |
| | How met Aerospace Inc How met Aerospace Inc | \$1,090 \$600 | Sr Unsecured | Ba1 Ba1 | BB+ BB+ | 10/1/2024 5/1/2025 | 5.125% 6.875% | 100.00 | 255 bps | 5.169% | 84 bps 120 bps | 203 bps | -119 bps | -58.8% |
| 4/24/2020 | How met Aerospace Inc How met Aerospace Inc How met Aerospace Inc | \$1,090 \$600 \$700 | | Ba1 | BB+ | 10/1/2024 | 5.125% | | | | 84 bps 120 bps 199 bps | | | -58.8% -42.3% |
| 4/24/2020 9/1/2021 | How met Aerospace Inc | \$600 | Sr Unsecured Sr Unsecured | Ba1 Ba1 | BB+ BB+ | 10/1/2024 5/1/2025 | 5.125% 6.875% | 100.00 100.00 | 255 bps 255 bps | 5.169% 5.329% | 120 bps | 203 bps 209 bps | -119 bps -88 bps | -58.8% -42.3% -19.1% |
| 4/24/2020 9/1/2021 1/25/2007 | How met Aerospace Inc How met Aerospace Inc | \$600 \$700 | Sr Unsecured Sr Unsecured Sr Unsecured | Ba1 Ba1 Ba1 | BB+ BB+ BB+ | 10/1/2024 5/1/2025 1/15/2029 | 5.125% 6.875% 3.000% | 100.00 100.00 100.00 | 255 bps 255 bps 255 bps | 5.169% 5.329% 5.591% | 120 bps 199 bps | 203 bps 209 bps 246 bps | -119 bps -88 bps -47 bps | -58.8% -42.3% -19.1% -24.9% |
| 9/22/2014 4/24/2020 9/1/2021 1/25/2007 7/13/2020 5/17/2018 | How met Aerospace Inc How met Aerospace Inc How met Aerospace Inc | \$600 \$700 \$625 | Sr Unsecured Sr Unsecured Sr Unsecured Sr Unsecured | Ba1 Ba1 Ba1 Ba1 | BB+ BB+ BB+ BB+ | 10/1/2024 5/1/2025 1/15/2029 2/1/2037 | 5.125% 6.875% 3.000% 5.950% | 100.00 100.00 100.00 99.62 | 255 bps 255 bps 255 bps 113 bps | 5.169% 5.329% 5.591% 5.789% | 120 bps 199 bps 214 bps | 203 bps 209 bps 246 bps 285 bps | -119 bps -88 bps -47 bps -71 bps | -58.8% -42.3% -19.1% -24.9% -47.7% -44.5% |
| 4/24/2020 9/1/2021 1/25/2007 7/13/2020 | How met Aerospace Inc How met Aerospace Inc How met Aerospace Inc Alcoa Nederland Holding BV | \$600 \$700 \$625 \$750 | Sr Unsecured Sr Unsecured Sr Unsecured Sr Unsecured Sr Unsecured | Ba1 Ba1 Ba1 Ba1 Baa3 | BB+ BB+ BB+ BB+ | 10/1/2024 5/1/2025 1/15/2029 2/1/2037 12/15/2027 | 5.125% 6.875% 3.000% 5.950% 5.500% | 100.00 100.00 100.00 99.62 100.00 | 255 bps 255 bps 255 bps 113 bps 255 bps | 5.169% 5.329% 5.591% 5.789% 5.854% | 120 bps 199 bps 214 bps 150 bps | 203 bps 209 bps 246 bps 285 bps 286 bps | -119 bps -88 bps -47 bps -71 bps -137 bps | -58.8% -42.3% -19.1% -24.9% -47.7% |
| 4/24/2020 9/1/2021 1/25/2007 7/13/2020 5/17/2018 3/24/2021 11/22/2019 | How met Aerospace Inc How met Aerospace Inc How met Aerospace Inc Alcoa Nederland Holding BV Alcoa Nederland Holding BV Alcoa Nederland Holding BV ATI Inc | \$600 \$700 \$625 \$750 \$500 \$500 \$350 | Sr Unsecured Sr Unsecured Sr Unsecured Sr Unsecured Sr Unsecured Sr Unsecured Sr Unsecured Sr Unsecured | Ba1 Ba1 Ba1 Ba1 Baa3 Baa3 Baa3 | BB+ BB+ BB+ BB+ BB+ BB+ BB+ | 10/1/2024 5/1/2025 1/15/2029 2/1/2037 12/15/2027 5/15/2028 3/31/2029 12/1/2027 | 5.125% 6.875% 3.000% 5.950% 5.500% 6.125% 4.125% 5.875% | 100.00 100.00 100.00 99.62 100.00 100.00 100.00 | 255 bps 255 bps 255 bps 113 bps 255 bps 314 bps 274 bps 414 bps | 5.169% 5.329% 5.591% 5.789% 5.854% 6.174% 6.266% 6.428% | 120 bps 199 bps 214 bps 150 bps 172 bps 261 bps 213 bps | 203 bps 209 bps 246 bps 285 bps 286 bps 309 bps 296 bps 386 bps | -119 bps -88 bps -47 bps -71 bps -137 bps -138 bps -36 bps -173 bps | -58.8% -42.3% -19.1% -24.9% -47.7% -44.5% -12.1% -44.9% |
| 4/24/2020 9/1/2021 1/25/2007 7/13/2020 5/17/2018 3/24/2021 11/22/2019 9/14/2021 | How met Aerospace Inc How met Aerospace Inc How met Aerospace Inc Alcoa Nederland Holding BV Alcoa Nederland Holding BV Alcoa Nederland Holding BV ATI Inc | \$600 \$700 \$625 \$750 \$500 \$500 \$350 \$325 | Sr Unsecured Sr Unsecured Sr Unsecured Sr Unsecured Sr Unsecured Sr Unsecured Sr Unsecured Sr Unsecured Sr Unsecured | Ba1 Ba1 Ba1 Ba1 Ba3 Ba3 Ba3 Ba2 B2 | BB+ BB+ BB+ BB+ BB+ BB+ BB+ B+ | 10/1/2024 5/1/2025 1/15/2029 2/1/2037 12/15/2027 5/15/2028 3/31/2029 12/1/2027 10/1/2029 | 5.125% 6.875% 3.000% 5.950% 5.500% 6.125% 4.125% 5.875% 4.875% | 100.00 100.00 100.00 99.62 100.00 100.00 100.00 100.00 100.00 | 255 bps 255 bps 255 bps 113 bps 255 bps 314 bps 274 bps 414 bps 255 bps | 5.169% 5.329% 5.591% 5.789% 5.854% 6.174% 6.266% 6.428% 6.521% | 120 bps 199 bps 214 bps 150 bps 172 bps 261 bps 213 bps 275 bps | 203 bps 209 bps 246 bps 285 bps 286 bps 309 bps 296 bps 386 bps 400 bps | -119 bps -88 bps -47 bps -71 bps -137 bps -138 bps -36 bps -173 bps -125 bps | -58.8% -42.3% -19.1% -24.9% -47.7% -44.5% -12.1% -44.9% -31.2% |
| 4/24/2020 9/1/2021 1/25/2007 7/13/2020 5/17/2018 3/24/2021 11/22/2019 9/14/2021 | How met Aerospace Inc How met Aerospace Inc How met Aerospace Inc Alcoa Nederland Holding BV Alcoa Nederland Holding BV Alcoa Nederland Holding BV ATI Inc ATI Inc | \$600 \$700 \$625 \$750 \$500 \$500 \$350 \$325 \$350 | Sr Unsecured | Ba1 Ba1 Ba1 Ba3 Ba3 Baa3 Ba2 B2 B2 | BB+ BB+ BB+ BB+ BB+ BB+ B+ B+ B+ | 10/1/2024 5/1/2025 1/15/2029 2/1/2037 12/15/2027 5/15/2028 3/31/2029 12/1/2027 10/1/2029 10/1/2031 | 5.125% 6.875% 3.000% 5.950% 5.500% 6.125% 4.125% 5.875% 4.875% 5.125% | 100.00 100.00 100.00 99.62 100.00 100.00 100.00 100.00 100.00 100.00 | 255 bps 255 bps 255 bps 113 bps 255 bps 314 bps 274 bps 414 bps 255 bps 255 bps | 5.169% 5.329% 5.591% 5.789% 5.854% 6.174% 6.266% 6.428% 6.521% 6.502% | 120 bps 199 bps 214 bps 150 bps 172 bps 261 bps 213 bps 275 bps 281 bps | 203 bps 209 bps 246 bps 285 bps 286 bps 309 bps 296 bps 386 bps 400 bps 401 bps | -119 bps -88 bps -47 bps -71 bps -137 bps -138 bps -36 bps -173 bps -125 bps -120 bps | -58.8% -42.3% -19.1% -24.9% -47.7% -44.5% -12.1% -44.9% -31.2% -29.9% |
| 4/24/2020 9/1/2021 1/25/2007 7/13/2020 5/17/2018 8/24/2021 11/22/2019 9/14/2021 9/14/2021 7/24/2020 | How met Aerospace Inc How met Aerospace Inc How met Aerospace Inc Alcoa Nederland Holding BV Alcoa Nederland Holding BV Alcoa Nederland Holding BV ATI Inc ATI Inc Carpenter Technology Corp | \$600 \$700 \$625 \$750 \$500 \$500 \$350 \$325 \$350 \$400 | Sr Unsecured | Ba1 Ba1 Ba1 Ba1 Ba3 Baa3 Baa3 Ba2 B2 B2 B2 B2 | BB+ BB+ BB+ BB+ BB+ BB+ B+ B+ B+ B+ B+ | 10/1/2024 5/1/2025 1/15/2029 2/1/2037 12/15/2027 5/15/2028 3/31/2029 12/1/2027 10/1/2029 10/1/2031 7/15/2028 | 5.125% 6.875% 3.000% 5.950% 5.500% 6.125% 4.125% 5.875% 4.875% 5.125% 6.375% | 100.00 100.00 100.00 99.62 100.00 100.00 100.00 100.00 100.00 100.00 | 255 bps 255 bps 255 bps 113 bps 255 bps 314 bps 274 bps 414 bps 255 bps 255 bps 587 bps | 5.169% 5.329% 5.591% 5.789% 5.854% 6.174% 6.266% 6.428% 6.521% 6.502% 5.848% | 120 bps 199 bps 214 bps 150 bps 172 bps 261 bps 213 bps 275 bps 281 bps 268 bps | 203 bps 209 bps 246 bps 285 bps 286 bps 309 bps 296 bps 386 bps 400 bps 401 bps 364 bps | -119 bps -88 bps -47 bps -71 bps -137 bps -138 bps -36 bps -173 bps -125 bps -120 bps -96 bps | -58.8% -42.3% -19.1% -24.9% -47.7% -44.5% -12.1% -44.9% -31.2% -29.9% -26.3% |
| 4/24/2020 9/1/2021 1/25/2007 7/13/2020 5/17/2018 3/24/2021 11/22/2019 9/14/2021 9/14/2021 7/24/2020 3/16/2022 | How met Aerospace Inc How met Aerospace Inc How met Aerospace Inc Alcoa Nederland Holding BV Alcoa Nederland Holding BV Alcoa Nederland Holding BV ATI Inc ATI Inc Carpenter Technology Corp Carpenter Technology Corp | \$600 \$700 \$625 \$750 \$500 \$500 \$350 \$325 \$350 \$400 \$300 | Sr Unsecured | Ba1 Ba1 Ba1 Ba1 Ba3 Baa3 Baa3 Ba2 B2 B2 B2 B2 B2 | BB+ BB+ BB+ BB+ BB+ BB+ B+ B+ B+ BB+ BB | 10/1/2024 5/1/2025 1/15/2029 2/1/2037 12/15/2027 5/15/2028 3/31/2029 10/1/2027 10/1/2029 10/1/2031 7/15/2028 3/15/2030 | 5.125% 6.875% 3.000% 5.950% 5.500% 6.125% 4.125% 5.875% 4.875% 5.125% 6.375% 7.625% | 100.00 100.00 100.00 99.62 100.00 100.00 100.00 100.00 100.00 100.00 100.00 | 255 bps 255 bps 255 bps 113 bps 255 bps 314 bps 274 bps 414 bps 255 bps 255 bps 587 bps 566 bps | 5.169% 5.329% 5.591% 5.789% 5.854% 6.174% 6.266% 6.428% 6.521% 6.502% 5.848% | 120 bps 199 bps 214 bps 150 bps 172 bps 261 bps 213 bps 275 bps 281 bps 268 bps 263 bps | 203 bps 209 bps 246 bps 285 bps 286 bps 309 bps 296 bps 386 bps 400 bps 401 bps 364 bps 379 bps | -119 bps -88 bps -47 bps -71 bps -137 bps -138 bps -36 bps -173 bps -125 bps -120 bps -96 bps -116 bps | -58.8% -42.3% -19.1% -24.9% -47.7% -44.5% -12.1% -44.9% -31.2% -29.9% -26.3% -30.5% |
| 4/24/2020 9/1/2021 1/25/2007 7/13/2020 5/17/2018 3/24/2021 11/22/2019 9/14/2021 9/14/2021 7/24/2020 3/16/2022 4/14/2021 | How met Aerospace Inc How met Aerospace Inc How met Aerospace Inc Alcoa Nederland Holding BV Alcoa Nederland Holding BV AI nc ATI Inc ATI Inc Carpenter Technology Corp Carpenter Technology Corp Century Aluminum Co | \$600 \$700 \$625 \$750 \$500 \$350 \$325 \$350 \$400 \$300 \$250 | Sr Unsecured | Ba1 Ba1 Ba1 Ba3 Baa3 Baa3 Ba2 B2 B2 B2 Caa1 | BB+ BB+ BB+ BB+ BB+ BB+ BB+ B+ B+ B+ B+ | 10/1/2024 5/1/2025 1/15/2029 2/1/2037 12/15/2027 5/15/2028 3/31/2029 12/1/2027 10/1/2031 7/15/2028 3/15/2030 4/1/2028 | 5.125% 6.875% 3.000% 5.950% 5.500% 6.125% 4.125% 5.875% 4.875% 6.375% 7.625% 7.500% | 100.00 100.00 100.00 99.62 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 | 255 bps 255 bps 255 bps 255 bps 113 bps 255 bps 314 bps 274 bps 414 bps 255 bps 255 bps 587 bps 566 bps 615 bps | 5.169% 5.329% 5.591% 5.789% 5.789% 6.174% 6.266% 6.428% 6.521% 6.502% 5.848% 10.439% | 120 bps 199 bps 214 bps 214 bps 150 bps 172 bps 261 bps 213 bps 275 bps 281 bps 288 bps 263 bps 681 bps | 203 bps 209 bps 246 bps 285 bps 286 bps 309 bps 296 bps 386 bps 400 bps 401 bps 364 bps 379 bps 614 bps | -119 bps -88 bps -47 bps -71 bps -137 bps -138 bps -36 bps -173 bps -125 bps -120 bps -96 bps -116 bps 66 bps | -58.8% -42.3% -19.1% -24.9% -47.7% -44.5% -12.1% -44.9% -31.2% -29.9% -26.3% -30.5% 10.8% |
| 4/24/2020 9/1/2021 1/25/2007 7/13/2020 5/17/2018 8/24/2021 11/22/2019 9/14/2021 9/14/2021 7/24/2020 8/16/2022 4/14/2021 5/31/2018 | How met Aerospace Inc How met Aerospace Inc How met Aerospace Inc Alcoa Nederland Holding BV Alcoa Nederland Holding BV ATI inc ATI inc ATI inc Carpenter Technology Corp Carpenter Technology Corp Century Aluminum Co JW Aluminum Continuous | \$600 \$700 \$625 \$750 \$500 \$350 \$325 \$350 \$400 \$300 \$250 \$300 | Sr Unsecured | Ba1 Ba1 Ba1 Ba3 Baa3 Baa3 Ba2 B2 B2 B2 B2 B2 B3 | BB+ BB+ BB+ BB+ BB+ BB+ BB+ BB+ BB+ B+ B | 10/1/2024 5/1/2025 1/15/2029 2/1/2037 12/15/2027 12/15/2028 3/31/2029 12/1/2027 10/1/2031 7/15/2028 3/15/2030 4/1/2026 | 5.125% 6.875% 3.000% 5.950% 5.500% 6.125% 4.125% 5.875% 4.875% 5.125% 6.375% 7.625% 7.500% | 100.00 100.00 100.00 99.62 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 | 255 bps 255 bps 255 bps 255 bps 113 bps 255 bps 314 bps 274 bps 414 bps 255 bps 255 bps 255 bps 587 bps 566 bps 615 bps 718 bps | 5.169% 5.329% 5.591% 5.789% 5.854% 6.1774% 6.266% 6.428% 6.521% 6.502% 5.848% 5.848% 9.074% | 120 bps 199 bps 214 bps 150 bps 172 bps 261 bps 275 bps 281 bps 268 bps 263 bps 681 bps 456 bps | 203 bps 209 bps 246 bps 286 bps 286 bps 309 bps 296 bps 386 bps 400 bps 401 bps 364 bps 379 bps 614 bps 384 bps | -119 pps -88 bps -47 bps -47 bps -137 bps -138 bps -36 bps -125 bps -120 bps -96 bps -116 bps 66 bps 72 bps | -58.8% -42.3% -19.1% -24.9% -47.7% -44.5% -12.1% -44.9% -31.2% -29.9% -30.5% 10.8% 18.8% |
| 4/24/2020 9/1/2021 1/25/2007 7/13/2020 5/17/2018 3/24/2021 11/22/2019 9/14/2021 9/14/2021 3/16/2022 4/14/2021 5/31/2018 11/26/2019 | How met Aerospace Inc How met Aerospace Inc How met Aerospace Inc Alcoa Nederland Holding BV Alcoa Nederland Holding BV ATI inc ATI inc Carpenter Technology Corp Carpenter Technology Corp Century Aluminum Co JW Aluminum Con | \$600 \$700 \$625 \$750 \$500 \$350 \$325 \$350 \$400 \$300 \$250 \$300 | Sr Unsecured | Ba1 Ba1 Ba1 Ba1 Ba3 Baa3 Baa3 Ba2 B2 B2 B2 B2 B2 B2 B3 B1 | BB+ BB+ BB+ BB+ BB+ BB+ BB+ B+ B+ B+ B+ | 10/1/2024 5/1/2025 1/15/2029 2/1/2037 12/15/2027 12/15/2028 3/31/2029 12/1/2027 10/1/2029 10/1/2031 7/15/2028 6/1/2026 3/1/2028 | 5.125% 6.875% 3.000% 5.950% 5.500% 6.125% 4.125% 5.875% 4.875% 5.125% 6.375% 7.625% 7.500% 10.250% 4.625% | 100.00 100.00 100.00 99.62 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 | 255 bps 255 bps 255 bps 255 bps 113 bps 255 bps 314 bps 274 bps 414 bps 255 bps 255 bps 587 bps 587 bps 615 bps 718 bps 289 bps | 5.169% 5.329% 5.591% 5.789% 5.854% 6.1774% 6.266% 6.428% 6.521% 6.502% 5.848% 5.848% 9.074% 6.401% | 120 bps 199 bps 214 bps 150 bps 172 bps 261 bps 275 bps 281 bps 268 bps 263 bps 681 bps 456 bps 268 bps | 203 bps 209 bps 246 bps 246 bps 286 bps 309 bps 296 bps 386 bps 400 bps 401 bps 364 bps 379 bps 614 bps 384 bps 420 bps | -119 bps -88 bps -47 bps -71 bps -137 bps -138 bps -36 bps -173 bps -125 bps -120 bps -96 bps -116 bps 72 bps -151 bps | -58.8% -42.3% -19.1% -24.9% -47.7% -44.5% -12.1% -44.9% -31.2% -29.9% -26.3% -30.5% 10.8% 18.8% -36.1% |
| 4/24/2020 9/1/2021 1/25/2007 7/13/2020 5/17/2018 3/24/2021 11/22/2019 9/14/2021 9/14/2021 7/24/2020 3/16/2022 4/14/2021 5/31/2018 | How met Aerospace Inc How met Aerospace Inc How met Aerospace Inc Alcoa Nederland Holding BV Alcoa Nederland Holding BV ATI Inc ATI Inc ATI Inc Carpenter Technology Corp Carpenter Technology Corp Century Aluminum Co JW Aluminum Continuous Kaiser Aluminum Corp Kaiser Aluminum Corp | \$600 \$700 \$625 \$750 \$500 \$350 \$325 \$350 \$400 \$300 \$250 \$300 \$500 | Sr Unsecured Secured Secured Sr Unsecured Sr Unsecured Secured Sr Unsecured Sr Unsecured | Ba1 Ba1 Ba1 Ba1 Ba1 Ba2 Ba3 Ba3 Ba3 Ba2 B2 B2 B2 B2 B2 B2 B2 B3 B1 B1 | BB+ BB+ BB+ BB+ BB+ BB+ BB+ B+ B+ B+ B+ | 10/1/2024 5/1/2025 1/15/2029 2/1/2037 12/15/2027 12/15/2028 3/31/2029 12/1/2027 10/1/2029 10/1/2031 7/15/2030 4/1/2028 3/15/2030 6/1/2031 | 5.125% 6.875% 3.000% 5.950% 5.500% 6.125% 4.125% 5.875% 4.875% 5.125% 6.375% 7.625% 4.625% 4.625% | 100.00 100.00 100.00 99.62 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 | 255 bps 255 bps 255 bps 255 bps 113 bps 255 bps 314 bps 274 bps 414 bps 255 bps 255 bps 587 bps 566 bps 615 bps 718 bps 289 bps 288 bps | 5.169% 5.329% 5.591% 5.789% 5.854% 6.174% 6.266% 6.428% 6.521% 6.502% 5.848% 10.439% 9.074% 6.401% 7.153% | 120 bps 199 bps 214 bps 150 bps 172 bps 261 bps 275 bps 281 bps 268 bps 263 bps 466 bps 268 bps 358 bps | 203 bps 209 bps 246 bps 285 bps 286 bps 309 bps 296 bps 386 bps 400 bps 401 bps 364 bps 379 bps 614 bps 384 bps 420 bps 422 bps | -119 bps -88 bps -47 bps -71 bps -137 bps -138 bps -36 bps -173 bps -125 bps -120 bps -96 bps -116 bps 72 bps -151 bps -64 bps | -58.8% -42.3% -19.1% -24.9% -47.7% -44.5% -12.1% -44.9% -31.2% -29.9% -26.3% -30.5% 10.8% -36.1% -15.1% |
| 4/24/2020 9/1/2021 1/25/2007 7/13/2020 5/17/2018 3/24/2021 11/22/2019 9/14/2021 7/24/2020 3/16/2022 4/14/2021 5/31/2018 11/26/2019 5/20/2021 | How met Aerospace Inc How met Aerospace Inc How met Aerospace Inc Alcoa Nederland Holding BV Alcoa Nederland Holding BV Alcoa Nederland Holding BV ATI Inc ATI Inc ATI Inc Carpenter Technology Corp Carpenter Technology Corp Century Aluminum Co JW Aluminum Continuous Kaiser Aluminum Corp Kaiser Aluminum Corp Precision Castparts Corp | \$600 \$700 \$625 \$750 \$500 \$500 \$350 \$350 \$400 \$300 \$250 \$300 \$500 \$550 \$850 | Sr Unsecured | Ba1 Ba1 Ba1 Ba1 Ba1 Ba2 B2 B2 B2 B2 Caa1 B3 B1 B1 Aa2 | BB+ BB+ BB+ BB+ BB+ BB+ B+ B+ B+ BB+ BB | 10/1/2024 5/1/2025 1/15/2029 2/1/2037 12/15/2027 5/15/2028 3/31/2029 12/11/2027 10/1/2029 3/15/2030 4/1/2028 6/1/2026 6/1/2031 6/15/2025 | 5.125% 6.875% 3.000% 5.950% 6.125% 4.125% 5.875% 4.875% 6.375% 7.625% 7.500% 10.250% 4.625% 4.500% 3.250% | 100.00 100.00 100.00 99.62 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 99.80 | 255 bps 255 bps 255 bps 255 bps 113 bps 255 bps 314 bps 274 bps 414 bps 255 bps 255 bps 587 bps 566 bps 615 bps 718 bps 718 bps 289 bps 288 bps 110 bps | 5.169% 5.329% 5.591% 5.789% 5.854% 6.174% 6.266% 6.428% 6.521% 6.502% 5.848% 10.439% 9.074% 6.401% 7.153% 4.486% | 120 bps 199 bps 214 bps 150 bps 172 bps 261 bps 275 bps 281 bps 268 bps 263 bps 681 bps 456 bps 268 bps 358 bps 39 bps | 203 bps 209 bps 246 bps 285 bps 286 bps 309 bps 296 bps 386 bps 400 bps 401 bps 364 bps 379 bps 614 bps 384 bps 420 bps 420 bps 422 bps | -119 bps -88 bps -47 bps -71 bps -137 bps -138 bps -36 bps -173 bps -125 bps -125 bps -120 bps -66 bps -72 bps -56 bps -151 bps -64 bps -4 bps | -58.8% -42.3% -19.1% -24.9% -47.7% -44.5% -12.1% -44.9% -31.2% -29.9% -26.3% -30.5% 10.8% 18.8% -36.1% -15.1% -8.9% |
| H/24/2020 H/1/2021 H/1/25/2007 T/1/3/2020 5/17/2018 B/24/2021 H/1/2021 H/1/2021 B/1/4/2021 H/1/2021 H/1/2021 H/1/2021 H/1/2021 H/1/2021 H/1/2021 H/1/2021 H/1/2021 H/1/2021 H/1/2021 H/1/2021 H/1/2021 H/1/2021 H/1/2021 H/1/2021 H/1/2021 H/1/2021 | How met Aerospace Inc How met Aerospace Inc How met Aerospace Inc Alcoa Nederland Holding BV Alcoa Nederland Holding BV Alcoa Nederland Holding BV ATI Inc ATI Inc ATI Inc Carpenter Technology Corp Carpenter Technology Corp Century Aluminum Co JW Aluminum Continuous Kaiser Aluminum Corp Precision Castparts Corp Precision Castparts Corp | \$600 \$700 \$625 \$750 \$500 \$350 \$325 \$350 \$400 \$300 \$250 \$300 \$550 \$550 \$550 \$275 | Sr Unsecured | Ba1 Ba1 Ba1 Ba1 Ba3 Baa3 Baa3 Ba2 B2 | BB+ BB+ BB+ BB+ BB+ BB+ B+ B+ B+ B+ B+ B | 10/1/2024 5/1/2025 1/15/2029 2/1/2037 12/15/2027 5/15/2028 3/31/2029 12/1/2027 10/1/2029 12/1/2031 7/15/2028 3/15/2030 4/1/2026 6/1/2031 6/15/2035 | 5.125% 6.875% 3.000% 5.950% 6.125% 4.125% 5.875% 4.875% 5.125% 7.625% 7.500% 10.250% 4.625% 4.500% 3.250% 4.200% | 100.00 100.00 100.00 99.62 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 99.80 | 255 bps 255 bps 255 bps 255 bps 113 bps 255 bps 314 bps 274 bps 414 bps 255 bps 587 bps 566 bps 615 bps 718 bps 289 bps 288 bps 110 bps 130 bps | 5.169% 5.329% 5.591% 5.789% 5.854% 6.174% 6.266% 6.428% 6.521% 6.502% 5.848% 10.439% 9.074% 6.401% 7.153% 4.486% 4.738% | 120 bps 199 bps 214 bps 214 bps 150 bps 172 bps 261 bps 213 bps 275 bps 281 bps 268 bps 263 bps 681 bps 456 bps 358 bps 39 bps 115 bps | 203 bps 209 bps 246 bps 285 bps 286 bps 309 bps 296 bps 386 bps 400 bps 401 bps 364 bps 379 bps 614 bps 384 bps 420 bps 422 bps 42 bps 128 bps | -119 bps -88 bps -47 bps -71 bps -137 bps -138 bps -36 bps -173 bps -120 bps -120 bps -16 bps 66 bps 72 bps -151 bps -64 bps -4 bps -4 bps -13 bps | -58.8% -42.3% -19.1% -24.9% -44.5% -12.1% -44.9% -31.2% -29.9% -36.3% -36.1% -15.1% -8.9% -10.5% |
| H/24/2020 H/2021 H/25/2007 H/13/2020 H/14/2021 | How met Aerospace Inc How met Aerospace Inc How met Aerospace Inc Alcoa Nederland Holding BV Alcoa Nederland Holding BV Alcoa Nederland Holding BV ATI Inc ATI Inc ATI Inc Carpenter Technology Corp Carpenter Technology Corp Century Aluminum Co JW Aluminum Corp Kaiser Aluminum Corp Frecision Castparts Corp Precision Castparts Corp | \$600 \$700 \$625 \$750 \$500 \$350 \$325 \$350 \$400 \$300 \$500 \$500 \$500 \$500 \$550 \$850 \$275 | Sr Unsecured | Ba1 Ba1 Ba1 Ba1 Ba1 Ba3 Baa3 Baa3 Ba2 B2 B2 B2 B2 B2 B2 B2 B2 Aa2 Aa2 | BB+ BB+ BB+ BB+ BB+ BB+ BB+ B+ B+ B+ B+ | 10/1/2024 5/1/2025 1/15/2029 2/1/2037 12/15/2027 5/15/2028 3/31/2029 12/1/2027 10/1/2029 10/1/2029 10/1/2030 4/1/2028 6/1/2026 3/15/2030 6/1/2031 6/15/2025 6/15/2035 1/15/2043 | 5.125% 6.875% 3.000% 5.950% 6.125% 4.125% 5.875% 4.875% 7.625% 7.500% 10.250% 4.6225% 4.500% 3.250% 3.900% | 100.00 100.00 100.00 99.62 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 99.80 99.80 99.80 | 255 bps 255 bps 255 bps 255 bps 113 bps 255 bps 314 bps 274 bps 414 bps 255 bps 587 bps 566 bps 615 bps 718 bps 288 bps 110 bps 130 bps | 5.169% 5.329% 5.591% 5.789% 5.854% 6.174% 6.266% 6.428% 6.521% 6.502% 5.848% 10.439% 9.074% 6.401% 7.153% 4.4866% | 120 bps 199 bps 214 bps 150 bps 172 bps 261 bps 213 bps 275 bps 281 bps 268 bps 268 bps 268 bps 268 bps 358 bps 358 bps 315 bps 115 bps 100 bps | 203 bps 209 bps 246 bps 285 bps 286 bps 309 bps 296 bps 386 bps 400 bps 401 bps 364 bps 379 bps 614 bps 384 bps 420 bps 422 bps 422 bps 128 bps 138 bps | -119 bps -88 bps -47 bps -71 bps -137 bps -138 bps -36 bps -125 bps -125 bps -120 bps -96 bps -116 bps -66 bps 72 bps -151 bps -64 bps -4 bps -4 bps -4 bps -4 bps -4 bps | -58.8% -42.3% -19.1% -24.9% -47.9% -44.5% -12.1% -44.9% -31.2% -26.3% 10.8% 18.8% -36.1% -15.1% -8.9% -10.5% -28.0% |
| 4/24/2020 9/1/2021 11/25/2007 7/13/2020 5/17/2018 3/24/2021 11/22/2019 9/14/2021 9/14/2021 5/31/2018 11/26/2019 5/20/2021 5/10/2015 | How met Aerospace Inc How met Aerospace Inc How met Aerospace Inc Alcoa Nederland Holding BV Alcoa Nederland Holding BV ATI Inc ATI Inc ATI Inc Carpenter Technology Corp Carpenter Technology Corp Century Aluminum Co JW Aluminum Corp Kaiser Aluminum Corp Recision Castparts Corp Precision Castparts Corp Precision Castparts Corp Precision Castparts Corp Precision Castparts Corp | \$600 \$700 \$625 \$750 \$500 \$350 \$325 \$350 \$400 \$300 \$550 \$550 \$550 \$275 \$500 \$325 | Sr Unsecured | Ba1 Ba1 Ba1 Ba1 Ba3 Baa3 Baa3 Ba2 B2 B2 B2 B2 B2 B2 Aa2 Aa2 Aa2 | BB+ BB+ BB+ BB+ BB+ BB+ B+ B+ B+ B+ B+ B | 10/1/2024 5/1/2025 1/15/2029 2/1/2037 12/15/2027 12/15/2027 10/1/2029 10/1/2031 10/1/2030 4/1/2038 6/1/2036 6/1/2036 6/1/2035 6/15/2035 1/15/2043 6/15/2043 | 5.125% 6.875% 3.000% 5.950% 5.500% 6.125% 4.125% 5.875% 4.875% 6.375% 7.625% 7.500% 10.250% 4.625% 4.500% 3.250% 4.200% 3.900% 4.375% | 100.00 100.00 100.00 99.62 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 99.40 99.38 99.67 | 255 bps 255 bps 255 bps 255 bps 113 bps 255 bps 314 bps 274 bps 414 bps 255 bps 255 bps 255 bps 587 bps 566 bps 615 bps 718 bps 289 bps 288 bps 110 bps 130 bps 100 bps 145 bps | 5.169% 5.329% 5.591% 5.789% 5.854% 6.1774% 6.266% 6.428% 6.521% 6.502% 5.848% 9.074% 6.401% 7.153% 4.486% 4.738% 4.806% 4.782% | 120 bps 199 bps 214 bps 214 bps 150 bps 172 bps 261 bps 275 bps 281 bps 268 bps 263 bps 681 bps 456 bps 268 bps 358 bps 39 bps 115 bps 100 bps 104 bps | 203 bps 209 bps 246 bps 286 bps 286 bps 309 bps 296 bps 386 bps 400 bps 401 bps 364 bps 379 bps 614 bps 384 bps 420 bps 422 bps 42 bps 128 bps 138 bps 146 bps | -119 bps -88 bps -47 bps -71 bps -137 bps -138 bps -126 bps -125 bps -120 bps -120 bps -16 bps -16 bps -151 bps -4 bps -4 bps -13 bps -39 bps -4 bps | -58.8% -42.3% -19.1% -24.9% -47.7% -44.5% -12.1% -44.9% -29.9% -26.3% 10.8% 18.8% -36.1% -15.1% -8.9% -28.0% -28.8% |
| 4/24/2020 9/1/2021 11/25/2007 7/13/2020 5/17/2018 3/24/2021 11/22/2019 9/14/2021 3/14/2021 7/24/2020 3/16/2022 4/14/2021 5/31/2018 11/26/2019 5/20/2021 5/10/2015 5/10/2015 5/10/2015 | How met Aerospace Inc How met Aerospace Inc How met Aerospace Inc Alcoa Nederland Holding BV Alcoa Nederland Holding BV ATI inc ATI inc ATI inc Carpenter Technology Corp Carpenter Technology Corp Century Aluminum Cor JW Aluminum Corp Kaiser Aluminum Corp Resison Castparts Corp Precision Castparts Corp Triumph Group Inc | \$600 \$700 \$625 \$750 \$500 \$350 \$325 \$350 \$400 \$300 \$500 \$550 \$850 \$850 \$325 \$344 | Sr Unsecured | Ba1 Ba1 Ba1 Ba1 Ba1 Ba3 Baa3 Baa3 B2 B2 B2 B2 B2 B2 B2 B2 Aa2 Aa2 Aa2 B1 | BB+ BB+ BB+ BB+ BB+ BB+ B+ B+ B+ B+ B+ B | 10/1/2024 5/1/2025 1/15/2029 2/1/2037 12/15/2027 12/15/2028 3/31/2029 12/1/2027 10/1/2029 10/1/2031 7/15/2028 6/1/2030 6/15/2035 6/15/2035 1/15/2045 6/1/2045 | 5.125% 6.875% 3.000% 5.950% 5.500% 4.125% 4.125% 5.875% 4.875% 6.375% 7.625% 7.625% 4.500% 4.200% 4.200% 4.200% 4.375% 8.875% | 100.00 100.00 100.00 99.62 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 99.80 99.40 99.38 99.67 | 255 bps 255 bps 255 bps 255 bps 113 bps 255 bps 314 bps 274 bps 414 bps 255 bps 255 bps 255 bps 587 bps 566 bps 615 bps 718 bps 288 bps 110 bps 130 bps 145 bps 871 bps | 5.169% 5.329% 5.591% 5.789% 5.854% 6.1774% 6.266% 6.428% 6.521% 6.502% 5.848% 9.074% 6.401% 7.153% 4.486% 4.738% 4.866% 4.782% 5.823% | 120 bps 199 bps 214 bps 150 bps 172 bps 261 bps 275 bps 281 bps 263 bps 681 bps 456 bps 268 bps 358 bps 39 bps 115 bps 100 bps 104 bps | 203 bps 209 bps 246 bps 246 bps 286 bps 286 bps 309 bps 386 bps 400 bps 401 bps 364 bps 379 bps 614 bps 384 bps 420 bps 42 bps 42 bps 128 bps 128 bps 146 bps | -119 bps -88 bps -47 bps -71 bps -137 bps -138 bps -125 bps -125 bps -120 bps -120 bps -96 bps -66 bps -72 bps -151 bps -64 bps -4 bps -4 bps -39 bps -4 bps -39 bps -39 bps -39 bps -39 bps | -58.8% -42.3% -19.1% -24.9% -47.7% -44.5% -12.1% -44.9% -31.2% -29.9% -30.5% -3 |
| 4/24/2020 9/1/2021 1/25/2007 7/13/2020 5/17/2018 3/24/2021 11/22/2019 | How met Aerospace Inc How met Aerospace Inc How met Aerospace Inc Alcoa Nederland Holding BV Alcoa Nederland Holding BV ATI Inc ATI Inc ATI Inc Carpenter Technology Corp Carpenter Technology Corp Century Aluminum Co JW Aluminum Corp Kaiser Aluminum Corp Recision Castparts Corp Precision Castparts Corp Precision Castparts Corp Precision Castparts Corp Precision Castparts Corp | \$600 \$700 \$625 \$750 \$500 \$350 \$325 \$350 \$400 \$300 \$550 \$550 \$550 \$275 \$500 \$325 | Sr Unsecured | Ba1 Ba1 Ba1 Ba1 Ba3 Baa3 Baa3 Ba2 B2 B2 B2 B2 B2 B2 Aa2 Aa2 Aa2 | BB+ BB+ BB+ BB+ BB+ BB+ B+ B+ B+ B+ B+ B | 10/1/2024 5/1/2025 1/15/2029 2/1/2037 12/15/2027 12/15/2027 10/1/2029 10/1/2031 10/1/2030 4/1/2038 6/1/2036 6/1/2036 6/1/2035 6/15/2035 1/15/2043 6/15/2043 | 5.125% 6.875% 3.000% 5.950% 5.500% 6.125% 4.125% 5.875% 4.875% 6.375% 7.625% 7.500% 10.250% 4.625% 4.500% 3.250% 4.200% 3.900% 4.375% | 100.00 100.00 100.00 99.62 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 99.94 99.38 99.67 | 255 bps 255 bps 255 bps 255 bps 113 bps 255 bps 314 bps 274 bps 414 bps 255 bps 255 bps 255 bps 587 bps 566 bps 615 bps 718 bps 289 bps 288 bps 110 bps 130 bps 100 bps 145 bps | 5.169% 5.329% 5.591% 5.789% 5.854% 6.1774% 6.266% 6.428% 6.521% 6.502% 5.848% 9.074% 6.401% 7.153% 4.486% 4.738% 4.806% 4.782% | 120 bps 199 bps 214 bps 214 bps 150 bps 172 bps 261 bps 275 bps 281 bps 268 bps 263 bps 681 bps 456 bps 268 bps 358 bps 39 bps 115 bps 100 bps 104 bps | 203 bps 209 bps 246 bps 286 bps 286 bps 309 bps 296 bps 386 bps 400 bps 401 bps 364 bps 379 bps 614 bps 384 bps 420 bps 422 bps 42 bps 128 bps 138 bps 146 bps | -119 bps -88 bps -47 bps -71 bps -137 bps -138 bps -126 bps -125 bps -120 bps -120 bps -16 bps -16 bps -151 bps -4 bps -4 bps -13 bps -39 bps -4 bps | -58.8% -42.3% -19.1% -24.9% -47.7% -44.5% -12.1% -44.9% -29.9% -26.3% 10.8% 18.8% -36.1% -15.1% -8.9% -28.0% -28.8% |
| 4/24/2020 9/1/2021 1/25/2007 7/13/2020 5/13/2020 5/13/2020 9/14/2021 11/22/2019 9/14/2021 7/24/2020 3/16/2022 4/14/2021 5/20/2021 5/20/2021 5/10/2015 6/10/2015 6/10/2015 8/10/2015 8/10/2015 8/10/2015 8/10/2015 8/10/2015 | How met Aerospace Inc How met Aerospace Inc How met Aerospace Inc Alcoa Nederland Holding BV Alcoa Nederland Holding BV ATI Inc ATI Inc ATI Inc Carpenter Technology Corp Carpenter Technology Corp Century Aluminum Co JW Aluminum Continuous Kaiser Aluminum Corp Reision Castparts Corp Precision Castparts Corp Triumph Group Inc Triumph Group Inc | \$600 \$700 \$625 \$750 \$500 \$500 \$350 \$325 \$330 \$400 \$250 \$300 \$500 \$550 \$850 \$275 \$500 \$325 \$325 | Sr Unsecured Secured 1st lien Sr Unsecured Ist lien 2nd lien | Ba1 Ba1 Ba1 Ba1 Ba1 Ba2 B2 B2 B2 B2 B2 B2 B2 Caa1 B3 B1 Aa2 Aa2 Aa2 B1 Caa1 | BB+ BB+ BB+ BB+ BB+ BB+ B+ B+ B+ BB+ BB | 10/1/2024 5/1/2025 1/15/2029 2/1/2037 12/15/2027 12/15/2028 3/31/2029 12/1/2027 10/1/2029 10/1/2031 7/15/2028 6/1/2026 3/15/2030 6/15/2035 6/15/2035 6/15/2035 6/15/2035 6/15/2035 6/15/2045 | 5.125% 6.875% 3.000% 5.950% 6.125% 4.125% 5.875% 4.875% 7.625% 7.500% 10.250% 4.625% 4.200% 3.250% 4.375% 6.375% 6.375% 6.375% 6.375% 6.375% 6.375% 6.375% 6.375% 6.375% 6.350% 6 | 100.00 100.00 100.00 99.62 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 99.80 99.38 99.67 100.00 100.00 | 255 bps 255 bps 255 bps 255 bps 113 bps 255 bps 314 bps 274 bps 414 bps 255 bps 255 bps 587 bps 566 bps 615 bps 718 bps 288 bps 110 bps 130 bps 145 bps 871 bps 476 bps | 5.169% 5.329% 5.591% 5.789% 5.854% 6.174% 6.266% 6.428% 6.521% 6.502% 5.848% 5.848% 10.439% 9.074% 6.401% 7.153% 4.486% 4.738% 4.806% 4.738% 9.139% | 120 bps 199 bps 214 bps 150 bps 172 bps 261 bps 275 bps 281 bps 268 bps 263 bps 681 bps 456 bps 358 bps 39 bps 115 bps 100 bps 104 bps 132 bps 500 bps | 203 bps 209 bps 246 bps 246 bps 286 bps 309 bps 296 bps 386 bps 400 bps 401 bps 364 bps 379 bps 614 bps 384 bps 420 bps 422 bps 42 bps 128 bps 146 bps 146 bps 146 bps | -119 bps -88 bps -47 bps -71 bps -137 bps -138 bps -36 bps -125 bps -120 bps -96 bps -116 bps 66 bps -72 bps -151 bps -64 bps -4 bps -13 bps -39 bps -42 bps -333 bps -42 bps | -58.8% -42.3% -19.1% -24.9% -47.7% -44.9% -12.1% -44.9% -31.2% -29.9% -26.3% -30.5% 10.8% 18.8% -36.1% -15.1% -28.9% -71.5% -32.9% |

Denotes new issuance since 10/14/22 Metals Bond Update

Denotes bond that matures in the next two years

+/- Indicates ratings currently on review for upgrade/downgrade

Source: Bloomberg



SYNDICATED BANK LOAN MARKET

The syndicated bank loan market ended 2022 with the weakest quarter of the year. There were just nine deals in fourth quarter for a total of \$3.5 billion. This is down significantly from fourth quarter 2021, which had 12 deals for \$9.58 billion. The totals for the full year 2022 are 53 deals and \$21.35 billion. This is a small improvement in number of deals and dollar volume over 2021, which had 46 deals totaling \$20.28 billion.

The quarter's largest deal was an \$800 million transaction for Commercial Metals, which includes an increased \$600 million revolver and a \$200 million DDTL. The increased revolver replaced a trade receivables securitization, and the DDTL is intended to refinance a portion of notes maturing in May 2023.

M&A created two deals during the quarter: Kloeckner Metals' \$650 million revolver to help finance the \$350 million acquisition of National Material de Mexico, and Olympic Steel's \$625 million revolver to help finance the \$131 million acquisition of Metal Fab Inc. Other notable deals in the quarter include: \$350 million for EMR, \$400 million for Commonwealth Rolled Products and \$160 million for Haynes International. **Below are details for some of this quarter's more notable transactions.**

| (\$ in millions) | Olympic Steel, Inc. | Kloeckner Metals Corp | Commonwealth Rolled Products Inc | JSW Steel (USA) Inc | |
|---|---|-----------------------|--------------------------------------|---------------------|--|
| Date | January 2023 | December 2022 | January 2021 (Amended November 2022) | October 2022 | |
| Deal Size (\$ in MM) | \$625.0 | \$650.0 \$400.0 | | \$182.0 | |
| Facility Type | ABL Revolver ¹ | ABL Revolver | ABL Revolver | Other Loan | |
| Tenor | 5 years | 5 years | 6 years | Not disclosed | |
| Purpose | Corporate Purposes | Corporate Purposes | Corporate Purposes | Capital Expenditure | |
| Ratings | | | | | |
| S&P | NR | NR | NR | NR | |
| Moody's | NR | NR | NR | NR | |
| Amortization | - | - | - | - | |
| Pricing at close (bps) | | | | | |
| All-in Spread | 125.0 / 225.0 | 150.0 | 275.0 | | |
| SOFR Margin | 125.0 / 225.0 | 150.0 | 275.0 | Not disclosed | |
| Facility Fee | - | - | - | | |
| Commitment Fee | 25.0 | 20.0 | Not disclosed | | |
| Sustainability Adjustment | - | Not disclosed | Not disclosed | Not disclosed | |
| Pricing Detail (bps) | Average Daily Availability² Tran. A Sofr Sofr Spread Tran. B Sofr Sofr Spread Comm. Fee \$195,000,000 125.0 225.0 25.0 ≥ 97,500,000 150.0 250.0 25.0 < 97,500,000 | Not disclosed | Not disclosed | Not disclosed | |
| SOFR Adjustment (bps) (1-mo / 3-mo / 6-mo) | 10.0 / 10.0 / 10.0 | Not disclosed | Not disclosed | Not disclosed | |
| Rate Floor | 0.00% | Not disclosed | Not disclosed | Not disclosed | |
| Financial Covenants | | | | | |
| Debt to Capital Ratio | | | | | |
| Total Leverage Ratio | | Not disclosed | Not disclosed | Not disclosed | |
| Fixed Charge Coverage | 1.00x when Avail < the greater of i) \$30,000,000 and ii) 10% of Line Cap | | | | |
| Secured | Yes | Yes | Yes | Not disclosed | |
| Sources: S&P Capital IQ , Moody's, Refinitiv Loan Connector | 1 Consists of Tranche A (\$595.0MM) and Tranche B (\$30.0MM) 2 Spreads in the two highest pricing levels will be reduced by 25 bps for three (3) months following compliance showing Leverage Ratio < 4.00x | | | | |



SYNDICATED BANK LOAN MARKET (Continued)

| (\$ in millions) | Commercial Metals Company | | | EMR USA Holdings |
|---|---|---|--------------------------------------|----------------------------------|
| Date | October 2022 | | | June 2021 (Amended October 2022) |
| Deal Size (\$ in MM) | \$6 | 00.0 / \$2 | 200.0 | \$350.0 |
| Facility Type | CF | Revolver | / DDTL | ABL Revolver |
| Tenor | 5 years | | | 5 years |
| Purpose | Corporate Purposes | | | Corporate Purposes |
| Ratings | | | | |
| S&P | BB+ | | | NR |
| Moody's | | Ba1 | | NR |
| Amortization | 2.5% / 2.5 | % / 2.5% , | / 5.0% / 5.0% | - |
| Pricing at close (bps) | | | | |
| All-in Spread | | 150.0 | | 150.0 |
| SOFR Margin | | 150.0 | | 150.0 |
| Facility Fee | | - | | - |
| Commitment Fee | 30.0 | | | Not disclosed |
| Sustainability Adjustment | | - | | Not disclosed |
| Pricing Detail (bps) | Debt Rating | SOFR Spread | Comm. Fee | |
| | ≥ BBB / Baa2 BBB- / Baa3 BB+ / Ba1 BB / Ba2 ≤ BB- / Ba3 | 100.0 125.0 150.0 175.0 200.0 | 20.0 25.0 30.0 35.0 40.0 | Not disclosed |
| SOFR Adjustment (bps) (1-mo / 3-mo / 6-mo) | 10 | 10.0 / 10.0 / 10.0 | | Not disclosed |
| Rate Floor | | 0.00% | | Not disclosed |
| Financial Covenants | | | | |
| Interest Coverage | | -2.50x | | |
| Debt/Capitalization | | -0.60x | | Not disclosed |
| Fixed Charge Coverage | | - | | |
| Secured | Yes ¹ | | | Yes |
| | 1 Collateral release | d upon inve | stment grade ratir | g |

Sources: S&P Capital IQ , Moody's, Refinitiv Loan Connector



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CIB SV PDF 0123-082-2189301

