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Viewpoint

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Investment Grade CLO Tranches for Insurers: A Relativist's Guide

Most insurers would concede that relative value often guides decision making. Higher interest rates have shifted insurers' focus, and previously niche asset classes have garnered more attention given their compelling advantages in today's environment.

The floating-rate debt tranches of collateralized loan obligations (CLOs), particularly tranches with investment grade (IG) ratings (AAA-BBB), are one such asset class attracting the interest of insurance companies. In a "higher for longer" rate environment, insurers are capturing elevated yields in an asset class which has historically exhibited less default risk than corporate bonds.

With a typically significant allocation to fixed income, insurers may want to consider IG CLO tranches given their compelling characteristics:

- Higher yields than similarly rated corporate debt
- Improved market liquidity

- Structural protections that support capital preservation.

Yield Advantage

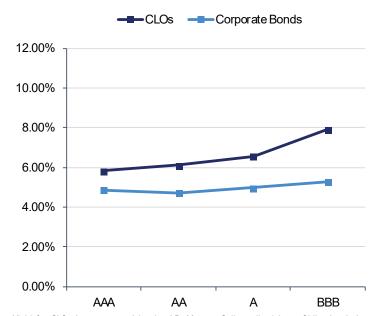
Absolute yields for floating-rate assets increased considerably in tandem with the U.S. Federal Reserve's (the Fed) aggressive rate-hike campaign in 2022-23.

Coupons for CLO debt tranches (and the broadly syndicated loans that make up the CLO's collateral portfolio) are floating rate and quoted at a spread over a base rate, primarily the Secured Overnight Financing Rate ("SOFR"). The base rate typically resets every three months, which addresses the impact of interest rate volatility for investors.

As SOFR rose to over 5%, coupons on floating-rate assets increased to levels not seen since the Great Financial Crisis (GFC) of 2008-2009. With the Fed in a holding pattern, SOFR-linked CLO debt coupons will likely remain elevated for some time. As such, there is a strong case to be made that yields for IG CLO debt tranches should continue to exceed comparably rated, longer-duration fixed rate assets. As Figure 1 illustrates, IG CLO debt tranches currently offer a significant yield advantage over their corporate bond counterparts (shown as a comparative yield-to-worst).

This pickup in yield reflects two misconceptions of the CLO asset class: perceived illiquidity and structural complexity.

Figure 1 - IG CLO Tranches' Yield Advantage Vs Corporate Bonds



Yield for CLOs is represented by the J.P. Morgan Collateralized Loan Obligation Index ("CLOIE") Yield to Worst by Tranche. For AAA-BBB corporate bonds, yield is represented by the respective portfolio yield by rating as measured by the JPMorgan U.S. Liquid Index ("JULI") investment grade corporate bond index. Includes only securities with maturities of 3-5 years and excludes emerging market bonds. Source: JPMorgan Markets DataQuery (March 31, 2024). Yield metrics should not be considered a guarantee of future returns.



Healthy Liquidity in a Growing Market

As the CLO asset class has grown over the last decade so has its acceptance among a broader base of insurers as well as the investment community overall, leading to greater liquidity. What was once the domain of large insurers and banks has evolved into a diverse group of institutions, asset managers, and even ETFs, making CLOs more accessible to a broad range of investor types.

Enhanced liquidity in the IG CLO tranche market provides investors with opportunities to actively trade and re-position portfolios. Figure 2 depicts the significant growth of the IG CLO tranche market over the last 10 years. Notably, the amount outstanding has more than doubled to over \$750 billion while secondary trading volumes have increased at an even more accelerated pace.

Figure 2 also illustrates that, outside of a spike in volume in the early days of the COVID-19 pandemic, IG CLO tranche trading volumes have steadily increased over the last decade from an average of less than 15% of the market trading annually to over 20% three of the last four years.

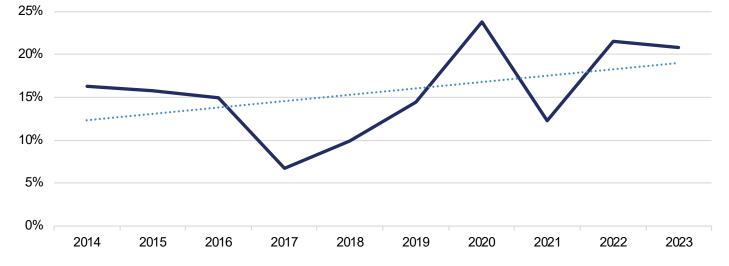
While IG CLO tranches may not have the same liquidity profile as high-grade corporate bonds, the relative increase in liquidity based on CLO market growth and a broadened investor base are important to consider when assessing CLO tranches' liquidity risk.

Figure 2 - A Growing and More Liquid Market









Source: BofA Global Research



Defects Date

Structural Protections

While higher yields and healthy liquidity underscore the attractiveness of IG CLO tranches in today's market environment, these are further complemented by the compelling, historical risk-adjusted performance of the asset class.

IG CLO tranches have proven resilient to losses from underlying loan defaults through multiple credit cycles. Over the years CLO tranches have experienced significantly fewer defaults relative to corporate bonds and loans, reflecting the integrity of the CLO structure. In fact, per Moody's Analytics, AAA and AA rated CLOs have never experienced a loss of principal—including during the GFC (see Figure 3).

The CLO structure is designed to protect the principal and interest income of debt holders to varying degrees. For holders of the seniormost, investment grade debt tranches (often insurance companies), this provides a reliable income stream and supports consistent returns with lower volatility than corporate bonds. Various collateral quality tests serve to limit risk in the underlying loan portfolio; in the event of credit stress in the collateral pool, distributions to CLO equity investors (the most subordinated portion of the CLO capital structure) are redirected for the benefit of the CLO debt investors. The self-correcting nature of the structure supports the ability of the asset class to weather periods of credit stress and helps protect CLO debt investors from investment losses.

Figure 3 - Historical CLO Tranche Defaults 1993-2022 (Market-Wide)

		Default Rate
AAA RATED CLO DEBT	Never an Impairment	0.00%
AA RATED CLO DEBT	Never an Impairment	0.00%
A RATED CLO DEBT	1 / 2,380 Tranches Impaired	0.04%
BBB RATED CLO DEBT	22 / 2,263 Tranches Impaired	0.97%

Includes all US cash flow CLO tranches ever rated by Moody's as of year-end 2022. Impairment is defined as when investors receive — or expect to receive with near certainty — less value than would be expected if the obligor were not experiencing financial distress or otherwise prevented from making payments by a third party, even if the indenture or contractual agreement does not provide the investor with a natural remedy for such events, such as the right to press for bankruptcy. Source: Moody's Analytics (June 26, 2023). Past impairment rates are not indicative/a guarantee of future impairment rates.

Conclusion

For insurance companies, an allocation to investment grade CLO tranches is an investment in an established and growing asset class that provides incremental yield relative to other investment grade fixed income alternatives. Additionally, it complements an insurer's fixed income allocation, particularly in a "higher for longer" rate environment. CLO market liquidity has increased steadily over the years, while the integrity of the CLO structure helps protect CLO debt investors during periods of market volatility. As a result, insurers and other investors have experienced compelling, long-term risk-adjusted returns over multiple credit cycles (see Figure 4).

Insurance companies considering IG CLO tranches should be diligent and consider managers with significant experience in CLO tranche investing. Allocators should seek CLO tranche investors with deep credit expertise, trading acumen, strong sell-side relationships, and the ability to discern relative value between collateral managers, tranches, and deal vintage in order to generate strong returns.

Conning and affiliate Octagon Credit Investors have a decade of experience working together to help insurers access and manage investments in CLOs. We share the view that a keen understanding of the loan market and the mechanics of the CLO structure are critical when gauging how a CLO will perform when stressed. Octagon's expertise and experience in the loan market are key benefits, especially when investing in securities rated A and lower.

Octagon's Investment Grade CLO Strategy can be accessed via a separate account or commingled strategy.

Figure 4 - Performance of IG CLO Tranches vs U.S. Corporates, 2012-2024Q1

JPM CLOIE Rating	Ann. Return	Ann. Volatility	Sharpe Ratio
AAA	2.82%	2.10%	0.79
AA	3.84%	3.82%	0.70
Α	5.26%	5.51%	0.74
BBB	7.31%	9.19%	0.67
US IG Corporates	3.13%	6.23%	0.32
US HY Corporates	5.65%	7.20%	0.63

Source: JP Morgan Data Query, Bloomberg. Analysis begins on January 1, 2012, the earliest date data is for available for all indices. Risk-free rate is the 3-month US Treasury Bill, Represents the J.P. Morgan Collateralized Loan Obligation Index ("CLOIE"). The CLOIE is a benchmark to track the market for US dollar denominated broadly-syndicated, arbitrage CLOs. The CLOIE is divided by origination (pre-versus post-crisis) and is broken out further into six original rating classes (AAA, AA, A, BBB, BB, B). It is impossible to invest directly in the index. Past performance is not a predictor of future market performance. On September 28, 2018, JP Morgan's Global Index Research Team announced that the total return time series for the CLOIE had been restated to reflect an update in the accounting of coupon reinvestment. The magnitude of the change on an annualized basis to the aggregate returns for CLOIE time series since 2012 was +9bps. Some information cited has been sourced from thirdparty sources. Octagon is not responsible for errors or omissions from these sources. No representation is made with respect to the accuracy, completeness or timeliness of information and Octagon assumes no obligation to update or otherwise revise such information. US IG Corporates are represented by the ICE BofA US Corporate Index (COAO). US HY Corporates are represented by the ICE BofA US HY Index (HOAO).



About Conning

Conning (www.conning.com) is a leading investment management firm with a long history of serving the insurance industry. Conning supports institutional investors, including insurers and pension plans, with investment solutions, risk modeling software, and industry research. Founded in 1912, Conning has investment centers in Asia, Europe and North America.

About Octagon Credit Investors

Octagon Credit Investors ("Octagon") is a leading institutional credit investor with \$34.2 billion of assets under management, including \$2.6 billion in CLO debt and equity tranche investments (as of 02/29/24). A CLO manager since 1999, Octagon was among the first investment managers in the asset class, and has since developed substantial expertise in structuring, evaluating, managing, and investing in CLOs over multiple credit cycles. Octagon has invested in CLO debt tranches since 2007 and has managed dedicated structured credit strategies since 2014. We believe Octagon's experience as both a collateral manager and investor in CLO tranches adds a depth of perspective that represents a competitive advantage.

Conning and Octagon are part of the Generali Investments platform.

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Risk Factors Associated With CLO Debt Investing May Include (But Are Not Limited To):

COMPLEXITY: CLOs often involve risks that are different from, or more acute than, risks associated with other types of debt instruments:

- The complex structure of the security may produce unexpected investment results
- Ratings agencies may downgrade their original ratings of CLO debt tranches
- · Majority equity holders retain the right to call or refinance/reprice a CLO, creating uncertainty for minority equity and debt holders

LIQUIDITY RISK

CLOs may be difficult to value and may constitute illiquid investments

DEFAULT RISK OF UNDERLYING CLO INVESTMENTS

 During periods of economic uncertainty and recession, the incidence of modifications and restructurings of investments may increase, resulting in impairments to the underlying asset value and reduced "subordination" to the tranched CLO liabilities

REGULATION

• CLOs are susceptible to changing regulations, influencing eligibility of certain investments, risk retention requirements, and other factors that can influence availability and liquidity

SOFR RISK:

• CLO debt and bank syndicated loans historically used LIBOR as an interest rate benchmark. On June 30, 2023, following a multi-year transition away from LIBOR, all USD LIBOR tenors ceased to be representative. Accordingly, most CLO debt notes and bank syndicated loans now use CME Term SOFR as a reference rate (with a minority of bank syndicated loans referencing 6-month USD LIBOR or synthetic USD LIBOR). Some CLOs have experienced or may experience a degree of mismatch between their liabilities and assets after June 30, 2023, with certain CLOs' issued securities tied to Term SOFR and certain of their underlying collateral tied to LIBOR (or vice versa). In addition, different assets may have adopted different credit spread adjustments as part of their transition to SOFR, further contributing to a possible mismatch between CLO assets and liabilities. The aforementioned mismatch may be greater at certain points in the future versus others, and the basis risk created by this mismatch could potentially have a negative impact on returns for CLO equity noteholders. Moreover, different assets will reference Term SOFR rates for different periods of time, e.g. 1-month or 3-month. While CLO securities will typically reference 3-month Term SOFR, leveraged loans can reference different rates or time periods; accordingly, it is likely that CLOs will experience a mismatch between the CLO securities (debt and equity issued by the CLO) and underlying leveraged loan collateral. Such a mismatch could result in the CLO not collecting sufficient interest proceeds on underlying collateral to make interest payments on the CLO debt. This could result in deleveraging a CLO or could impact returns for CLO debt and equity holders.

CLO MANAGEMENT

• The activities of any CLO will generally be directed by a collateral manager; consequently, the success of any CLO will depend, in large part, on the expertise of the collateral manager's investment professionals. Underlying assets in a CLO "turn over" over time due to sales and repayments

GENERAL MARKET AND ECONOMIC CONDITIONS

• Changing economic, political, regulatory or market conditions, interest rates, general levels of economic activity, the price of securities and debt instruments and participation by other investors in financial markets may affect the value of CLOs

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