

European CLO Performance Index Report Q1 2020

June 30, 2020

Key Takeaways

- CLO performance in first-quarter 2020 showed slight credit deterioration compared to the previous quarter, with an increase in assets rated in the 'CCC' rating category, and a worsening of S&P Global Ratings' weighted-average rating factor and scenario default rates.
- Nevertheless, the level of defaulted assets remains low and overcollateralization cushions are positive.
- Following the increase in negative rating actions among speculative-grade companies in March and April, the average credit quality of reinvesting CLO portfolios has stabilized.

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COVID-19 concerns persist as much of the market's focus remains on how the pandemic will pan out and it may affect European collateralized loan obligations (CLOs) (see "European CLOs: Assessing The Credit Effects Of COVID-19," published on March 25, 2020)

In the first quarter of the year, downgrades among speculative-grade companies rose markedly, particularly in March. Following this increase in negative rating actions on nonfinancial corporates in March and April, we looked at their impact on CLO portfolio exposures (see "How COVID-19 Changed The European CLO Market In 60 Days," published on May 6, 2020).

In this quarterly index publication, we incorporated the 2019 vintage and look at some of the key metrics behind our ratings on the CLO notes. A month-to-month negative performance of these parameters could pressure the ratings on the notes. We note that our Q1 2020 quarterly report covers the period between the end of November 2019 and February, hence we would have not reflected the impact of COVID-19 in the portfolio composition.

In table 1 below, we show some selected credit metrics for 111 S&P Global Ratings-rated European CLOs that will be reinvesting for all of 2020 since the beginning of the year. We observe that since May, the average credit quality of reinvesting CLO portfolios has appeared to stabilize.

Table 1

Selected Average Credit Metrics

	B-' (%)	CCC' category (%)	Non performing category (%)	Junior O/C cushion (%)	WAP	SPWARF	Par change (%)	CreditWatch negative (%)	Negative outlook (%)
Jan. 3, 2020	18.44	3.19	0.10	4.24	98.61	2704	0.00	1.00	20.68
Jan. 31, 2020	18.95	2.73	0.10	4.27	98.81	2708	0.00	0.88	19.19
March 6, 2020	19.48	1.91	0.04	4.31	98.35	2698	0.00	3.69	22.39
April 3, 2020	19.28	6.57	0.08	4.09	85.89	2827	(0.07)	5.23	25.09
May 1, 2020	23.74	9.39	0.10	3.59	86.44	2926	(0.13)	6.74	35.26
May 8, 2020	24.59	8.68	0.09	3.53	87.09	2922	(0.15)	6.02	36.88
May 15, 2020	24.88	8.56	0.11	3.42	88.12	2920	(0.15)	6.42	37.05
May 22, 2020	24.69	8.75	0.17	3.35	88.39	2926	(0.16)	6.51	38.55
May 29, 2020	25.09	8.91	0.22	3.35	88.32	2923	(0.16)	6.76	38.93
June 5, 2020	25.52	8.90	0.23	3.35	88.32	2929	(0.16)	7.52	38.89
June 12, 2020	25.52	8.90	0.23	3.50	88.32	2929	(0.16)	7.51	39.24
June 19, 2020	25.06	9.80	0.32	3.50	90.29	2956	(0.14)	7.79	40.27

CLO--collateralised loan obligation. O/C--Overcollateralization. SPWARF--S&P Global Ratings weighted average rating factor. WAP--Weighted average price. Pricing information is based on over 90% of the loans.

Nevertheless, we expect broad-based credit deterioration to continue for many speculative-grade companies in certain sectors such as leisure, consumer services, transportation, energy, and natural resources as they find their solvency stretched amid falling revenue. We expect the European trailing 12-month speculative-grade corporate default rate to rise to 8.5% by March 2021 from 2.4% in March 2020 (see "The European Speculative-Grade Corporate Default Rate Could Reach 8.5% by March 2021," published on June 8, 2020).

To date, we have placed 25 classes from 20 European CLOs on CreditWatch negative (see "Ratings On 18 Classes From 14 European CLOs Placed On Watch Negative," published on April 27, 2020, and "Ratings On Seven Classes From Six European CLOs Placed On Watch Negative," published on June 9, 2020). Our rating actions reflected a combination of multiple factors that affected these transactions, with the primary one being the increased exposure to 'CCC' category loans. Other factors included pressure on the overcollateralization ratios, a decline in portfolio credit quality, credit enhancement, and indicative preliminary cash flow results. We also considered qualitative factors to reflect our forward-looking view of the CLO portfolios. We expect to resolve the CreditWatch placements within 90 days of the rating action after we complete a cash flow analysis

and committee review for each of the affected transactions.

European CLO Structures Continue to Evolve

On the new issue front, in April, we published an article on how structural features on European CLOs could evolve in the COVID world (see "Redesigning The CLO Blueprint After COVID-19," published on April 21, 2020) Since then, we have seen 16 new issuances price with some of these features, such as lower leverage, removal of the 'B' rated (and for some, the 'BB') tranche, and shorter reinvestment periods--as well as the introduction of some additional features such as the inclusion of a delayed-draw tranche and the reintroduction of the turbo overcollateralization (O/C) test.

We note the difference between this turbo O/C test and the other type of turbo redemption feature (also known as "variable amortizing notes") we have seen in recent transactions. In the latter, interest proceeds used to redeem the most junior notes are made only after the cure of the most junior O/C test (in accordance with the note payment sequence starting from the most senior noteholders) and reinvestment O/C test. (For more information on the latter type of turbo feature i.e., variable amortizing notes, please see

<https://www.spglobal.com/ratings/en/research-insights/videos/2019-12-11-clo-simplified-turbo-redemption>

The turbo O/C test works differently: when the most junior O/C test is breached, up to a certain percentage (e.g., 50%) of available interest proceeds after paying the most junior notes' deferred interest is used to cure the test by paying down the most junior notes rather than the senior notes. This may provide less protection to senior noteholders than a transaction with a standard junior O/C test, which uses all available interest proceeds to pay down the notes sequentially.

To understand the sensitivity of its rating on a typical European CLO to potential negative stresses, S&P Global Ratings explored 10 different scenario analyses and the impact of various stresses (see "How Credit Distress Due To COVID-19 Could Affect European CLO Ratings," published on April 2, 2020). To provide greater market transparency, we have subsequently incorporated five of these scenario analyses in our new issue media releases to facilitate the comparison of transactions.

Although our rating framework has not changed, in light of the rapidly shifting credit dynamics within CLO portfolios due to rating actions (downgrades, CreditWatch placements, and outlook changes) on speculative-grade corporate loan issuers, we introduced an overlay of additional qualitative factors in our rating analysis by considering a minimum cushion between the break-even default rate (BDR) and the scenario default rate (SDR) of 1% for new issue transactions.

The level of the minimum cushion depends on several factors such as the percentage of assets rated 'B-', rated 'CCC', and the percentage of assets with ratings on CreditWatch negative or on negative outlook, amongst others. (See "S&P Global Ratings May Add Additional Qualitative Factors When Rating CLO Tranches Due To Changing Credit Dynamics," published on April 9, 2020" for more details.) For the new issue transactions that we have rated to date, the minimum cushion requirement for reinvestment CLOs has ranged between 1.0% to 1.5%, while actual cushions in transactions have generally exceeded these ranges.

S&P Global Ratings acknowledges a high degree of uncertainty about the evolution of the coronavirus pandemic. The consensus among health experts is that the pandemic may now be at, or near, its peak in some regions but will remain a threat until a vaccine or effective treatment is widely available, which may not occur until the second half of 2021. We are using this assumption in assessing the economic and credit implications associated with the pandemic (see our research

here: www.spglobal.com/ratings). As the situation evolves, we will update our assumptions and estimates accordingly.

Measuring CLO Performance Using Key Metrics

CLO issuance has gained momentum over the past five years, and investors have become more familiar with CLO structures and the associated risks, as well as assessing and suitably measuring credit and cash flow risks.

Credit risk, which includes default risk and an increase in 'CCC' category rated assets in the portfolio, among others, can be mitigated by better measures on the cash flow side, like increased available credit enhancement, weighted-average spread, and recoveries, for example.

In this article, we display how these individual parameters have evolved over the last few months to broadly gauge the performance of European CLOs.

CLO Collateral Performance Deteriorates Slightly In First-Quarter 2020

Overall, CLO performance in first-quarter 2020 deteriorated slightly since the previous three quarters, with an increase in 'CCC' category rated assets, and worsening of the S&P Global Ratings' weighted-average rating factor (SPWARF) and SDR. Most of the other metrics we capture showed stable performance.

Collateral portfolios of older vintage cohorts are becoming more concentrated as the assets wind down and they approach their final maturities, while newer vintages are benefiting from still being in their reinvestment phases, when collateral managers can actively mitigate default risk through active trading. We attribute these trends more to the stage in a transaction's life cycle than to significant changes in the portfolios at the collateral level.

Credit Metrics

European CLO 2.0 collateral ratings

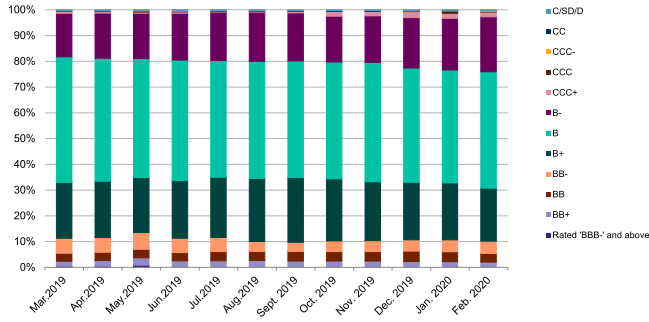
While CLOs enjoy the senior secured status of leveraged loans in the portfolio, it is important to note that these loans are issued to speculative-grade companies.

Underlying collateral ratings contribute significantly to the ratings on transactions that have closed since January 2013. Below we show the rating distribution of the CLO collateral portfolio for the different vintages in European CLO 2.0 transactions over a one-year period (see charts 1 to 7). Note that we have considered transactions that have been refinanced to be in the original vintage as when it was first issued. The CLO portfolio rating performance across all CLO vintages indicates stable performance.

European CLO Performance Index Report Q1 2020

Chart 1

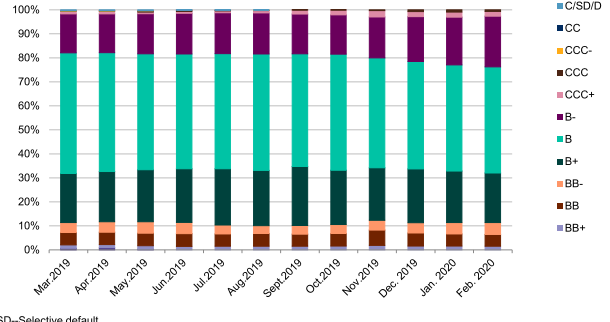
2013 Vintage European CLO Transactions: Collateral Ratings (%)



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Chart 2

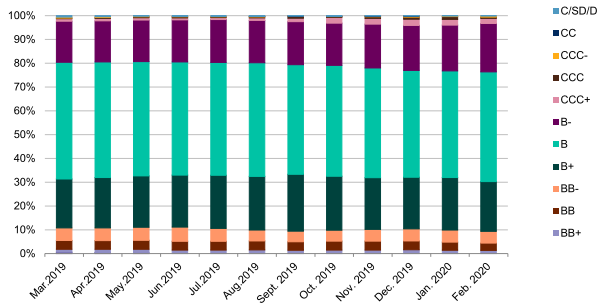
2014 Vintage European CLO Transactions: Collateral Ratings (%)



SD-Selective default.
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Chart 3

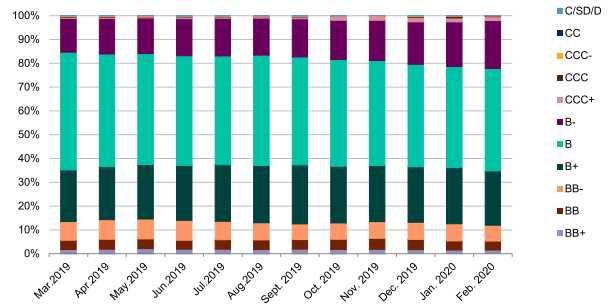
2015 Vintage European CLO Transactions: Collateral Ratings (%)



SD-Selective default.
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Chart 4

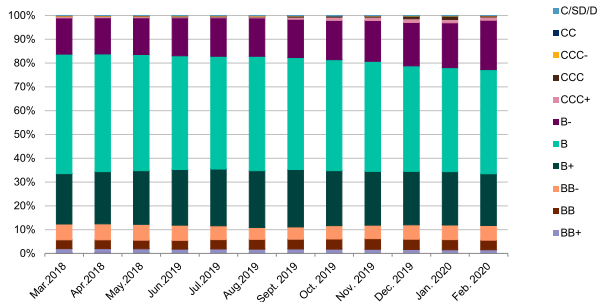
2016 Vintage European CLO Transactions: Collateral Ratings (%)



SD-Selective default.
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Chart 5

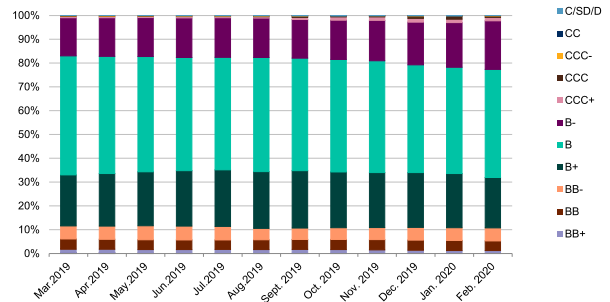
2017 Vintage European CLO Transactions: Collateral Ratings (%)



SD-Selective default.
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Chart 6

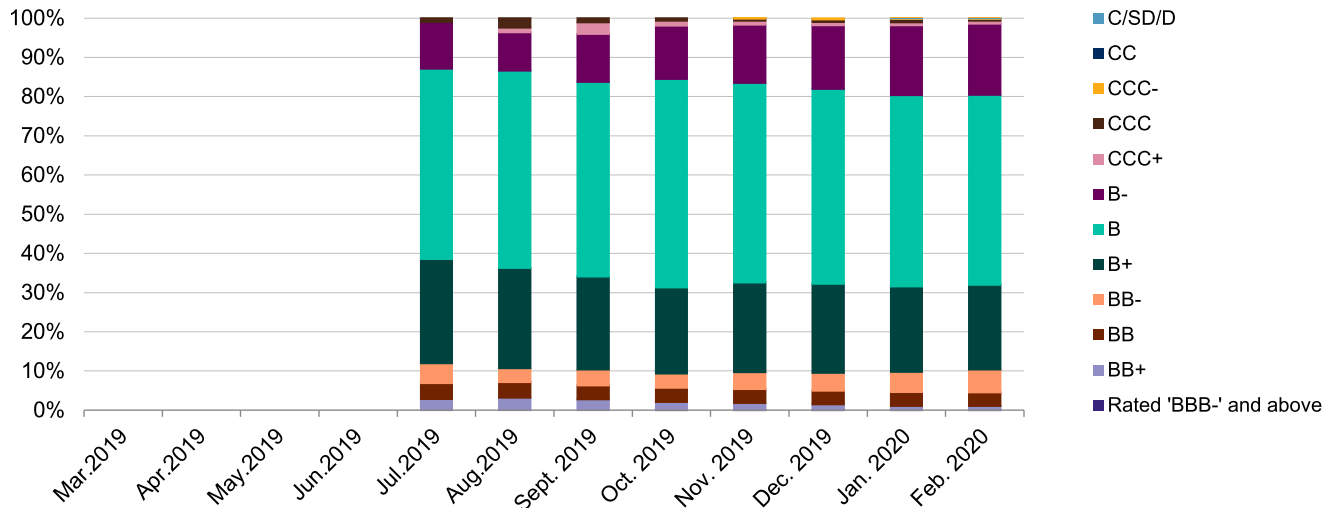
2018 Vintage European CLO Transactions: Collateral Ratings (%)



SD-Selective default.
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Chart 7

2019 Vintage European CLO Transactions: Collateral Ratings (%)



SD--Selective default

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Exposure to 'CCC' rated assets has increased

'CCC' category rated assets are an important measure of European CLO performance because an increase in these assets can indicate that the collateral portfolio's credit quality is worsening. The level of 'CCC' assets can also reduce O/C test cushions because they may not be carried at their full par value.

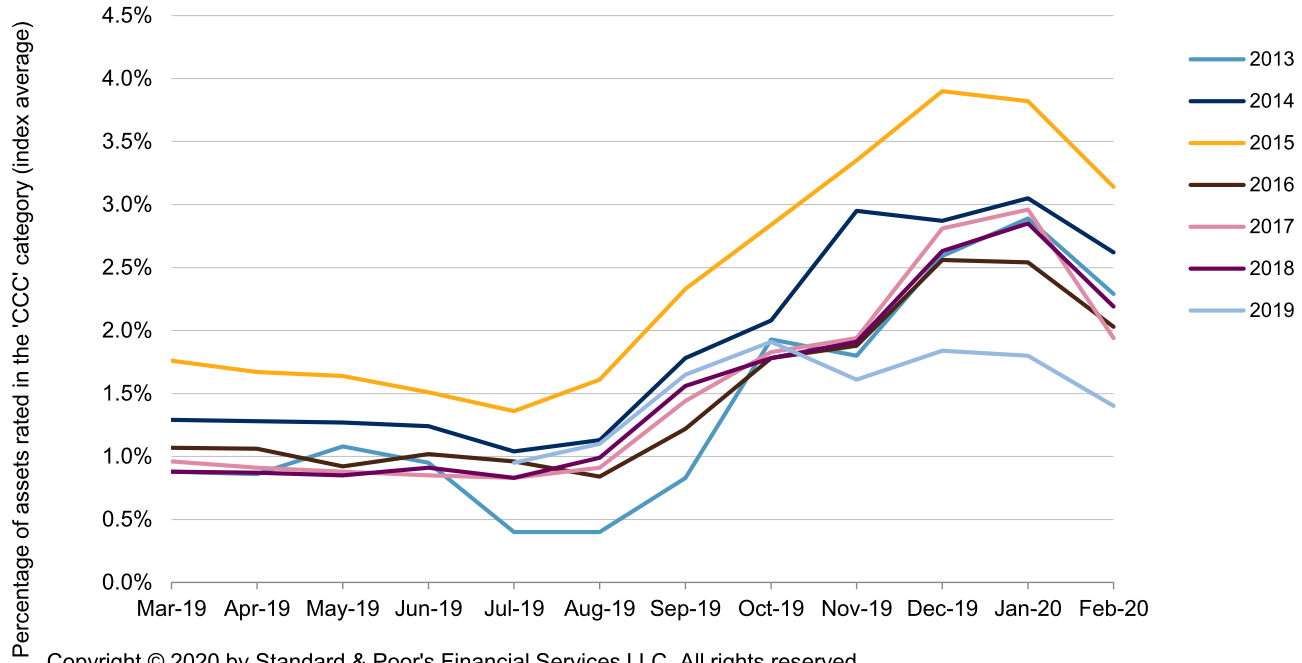
The percentage of assets rated in the 'CCC' category ('CCC+', 'CCC', or 'CCC-') has shown slightly worse performance for the European CLO cohorts we track. These changes reflect rating migration in the underlying portfolios and may also depend on an individual transaction's pool composition, which is based on the CLO manager's strategy to manage the vehicle.

By vintage, the reported level of 'CCC' rated assets in European cash flow CLOs, as a percentage of total assets in February 2020, was:

- 2013 vintage CLOs: 2.29% of total assets (up from 1.80% in November 2019);
- 2014 vintage CLOs: 2.62% of total assets (down from 2.95% in November 2019);
- 2015 vintage CLOs: 3.14% of total assets (down from 3.35% in November 2019);
- 2016 vintage CLOs: 2.03% of total assets (up from 1.88% in November 2019);
- 2017 vintage CLOs: 1.94% of total assets (unchanged from 1.94% in November 2019);
- 2018 vintage CLOs: 2.19% of total assets (up from 1.91% in November 2019); and
- 2019 vintage CLOs: 1.40% of total assets (down from 1.61% in November 2019).

Chart 8

**European CLOs With Assets Rated In The 'CCC' Category
By vintage**



Individual CLOs exhibited some variances among European CLOs from the same vintages. These CLOs are more likely to breach their thresholds sooner than other types of CLOs.

Exposure to defaulted assets remains limited

CLOs performed well through the financial crisis and beyond. Defaulted assets were one of the key indicators of CLO performance because a defaulted asset may result in a loss of principal to the CLO and a corresponding decline in credit enhancement.

From November 2019 to February 2020, the percentage of defaulted assets (i.e., assets from obligors rated 'CC', 'C', 'SD' [selective default], or 'D') slightly increased for the 2018, and 2019 vintages, and decreased for the 2013, 2015, and 2017 cohort. It remains unchanged for the 2014 and 2016 cohort.

As of February 2020, the percentage of defaulted assets in each underlying collateral portfolio was:

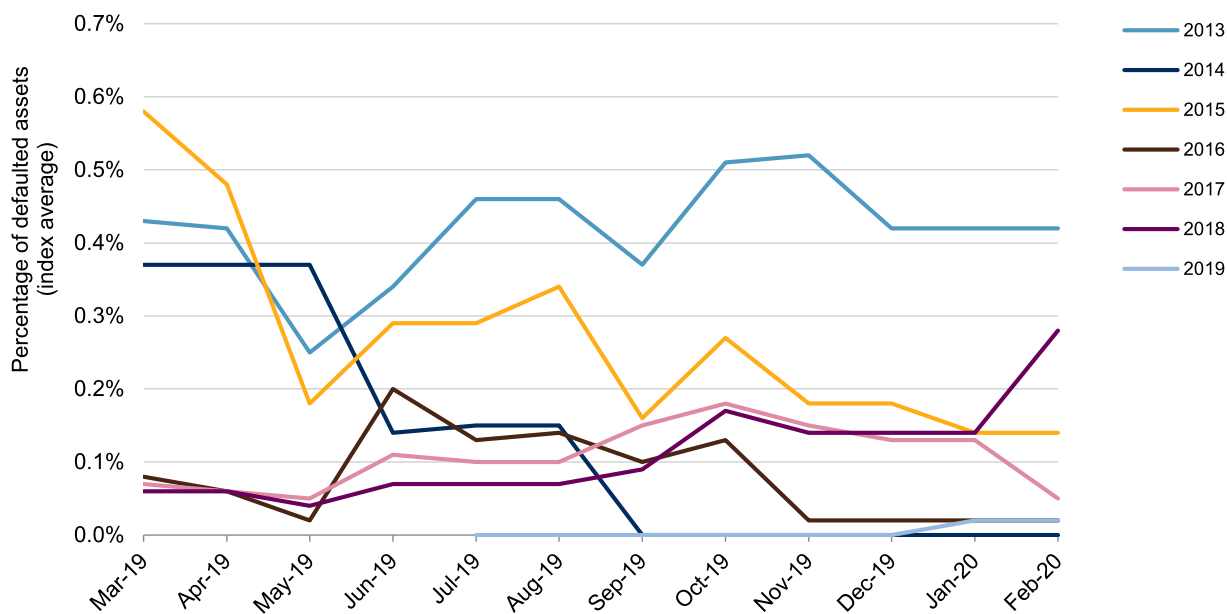
- 2013 vintage CLOs: 0.42% of total assets (down from 0.52% in November 2019);
- 2014 vintage CLOs: 0.00% of total assets (unchanged from 0.00% in November 2019);
- 2015 vintage CLOs: 0.14% of total assets (down from 0.18% in November 2019);
- 2016 vintage CLOs: 0.02% of total assets (unchanged from 0.02% in November 2019);

- 2017 vintage CLOs: 0.05% of total assets (down from 0.15% in November 2019);
- 2018 vintage CLOs: 0.28% of total assets (up from 0.14% in November 2019); and
- 2019 vintage CLOs: 0.02% of total assets (up from 0.00% in November 2019).

These calculations show the proportion of assets that are currently in default, over total assets (not including principal cash).

Chart 9

**Defaulted Assets
By vintage**



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S&P Global Ratings' weighted-average rating factor (SPWARF) worsens

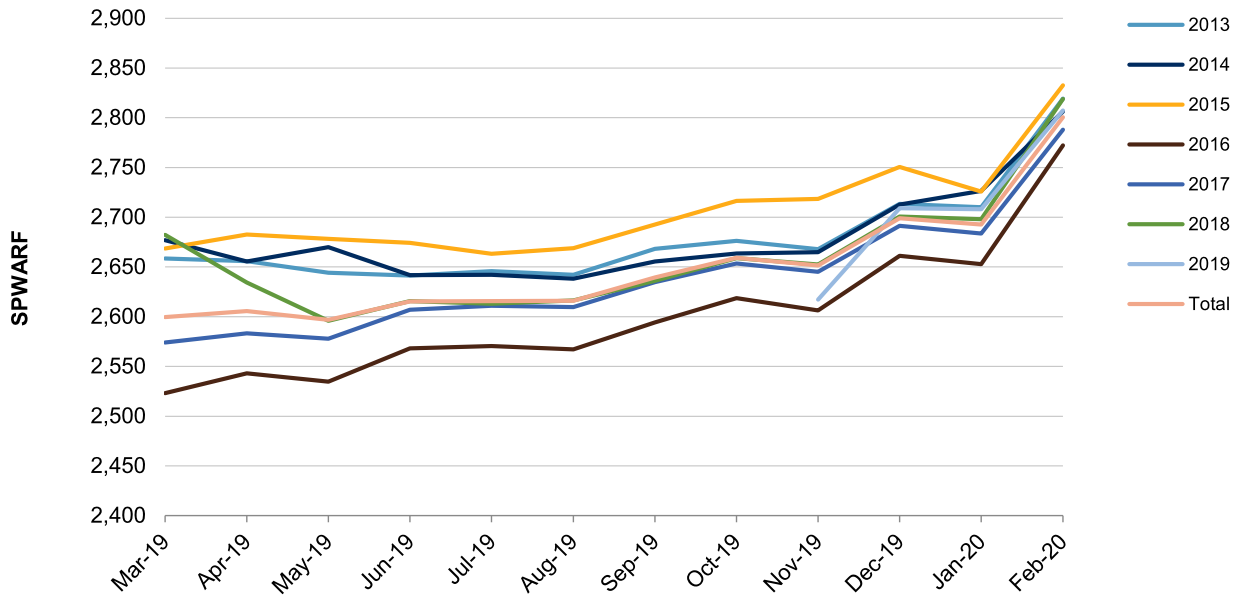
Although CLOs are generally restricted to eligibility criteria that govern what assets can be part of their portfolios and set their limitations, it is challenging to size a portfolio's default risk during the typical four-year reinvestment period in which the collateral manager is allowed to actively trade assets. These trading activities could change the asset portfolio's composition significantly, thus increasing its risk profile and possibly the required par subordination.

The SPWARF provides an indication of the portfolio's overall credit quality. It is each asset's five-year default rate assumed in our corporate collateralized debt obligation (CDO) criteria, weighted by each asset's par balance, and multiplied by 10,000 (see the "Related Criteria" and "Related Research" sections).

In first-quarter 2020, the overall SPWARF increased to 2,801 from 2,652.

Chart 10

SPWARF
By vintage



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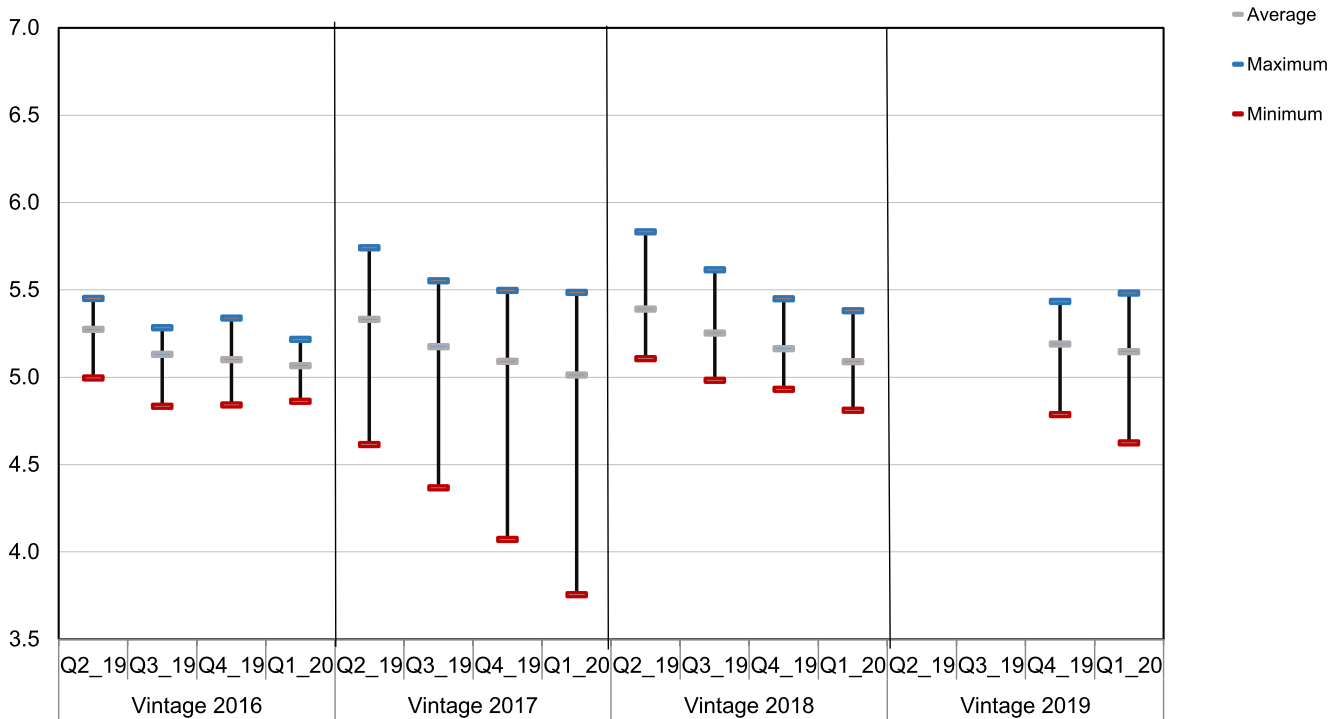
Weighted-average life (WAL) decreased

The WAL is the number of years between the current date and the maturity date of assets in the CLO portfolio.

At 5.1, the WAL is decreasing quarter on quarter.

Chart 11

Weighted-Average Life Over 2019-2020 (By Vintage)



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Scenario default rates (SDRs) worsen

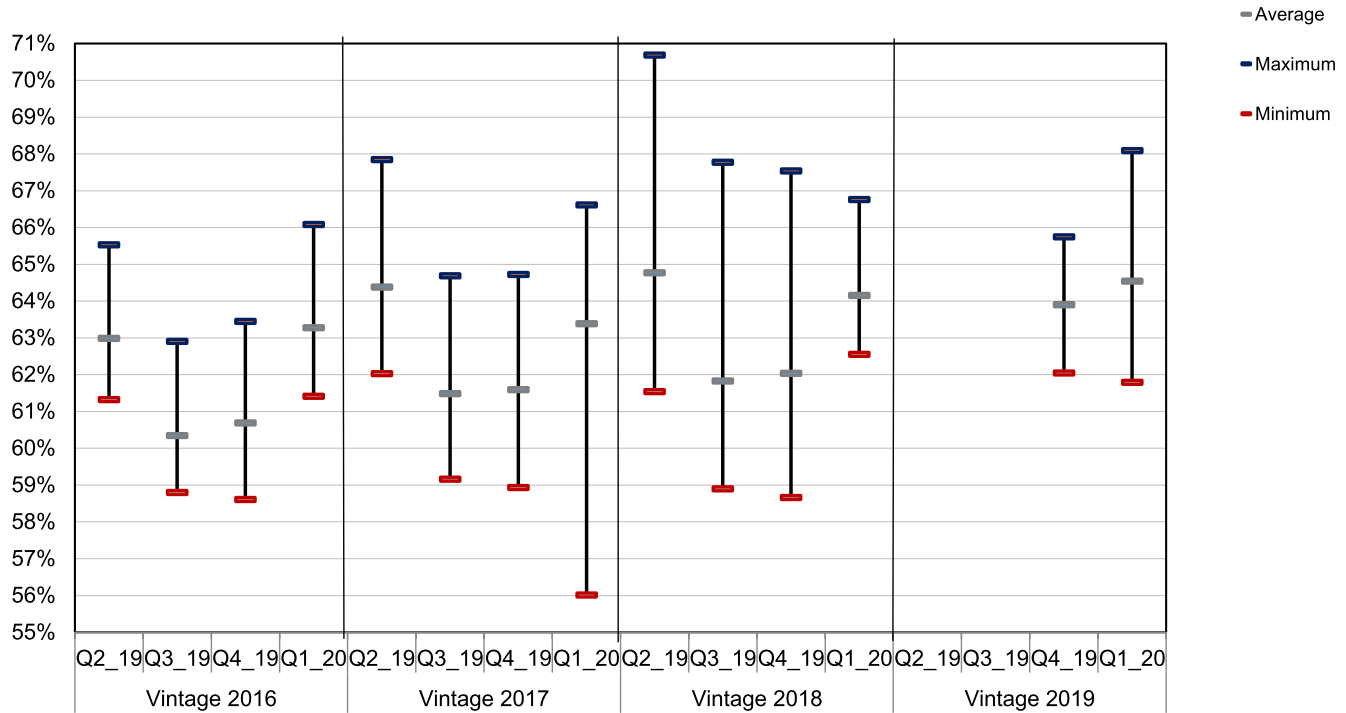
Together with the SPWARF and WAL, we use four other benchmarks (the three diversity measures and the default rate dispersion [DRD]) to produce the approximate 'AAA' SDR (i.e., the expected default levels for the portfolio under the 'AAA' stress scenarios).

While the SPWARF only looks at the credit rating on the assets, SDRs (or the expected target default rate) look into all six components when measuring the overall risk profile of a CLO portfolio (SPWARF + DRD + WAL + the three diversity measures).

On average, the current portfolio credit risk ('AAA' SDRs) has slightly worsened since fourth-quarter 2019, increasing to 63.84% from 61.44%.

Chart 12

Scenario Default Rate Over 2019-2020 (By Vintage)



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Cash Flow Metrics

Credit enhancement has remained steady

Our analysis of CDO transactions, as in our other structured finance ratings, focuses on how much credit enhancement is needed for a given level of credit risk to achieve a specific rating. Typically, credit enhancement is provided by a combination of overcollateralization/subordination and cash collateral. In this case, credit enhancement is the percentage of total performing assets plus cash, minus the tranche balance (including senior and pari passu note balance), divided by total performing assets, plus cash plus recovery on defaulted assets. The credit enhancement levels across the capital structure remained stable over 2019-2020.

Table 2

Credit Enhancement By Rating Level

AAA

Vintage	Q2 2019 yearly average	Q3 2019 yearly average	Q4 2019 yearly average	Q1 2020 yearly average
2016	40.57	40.60	40.62	40.51

Table 2

Credit Enhancement By Rating Level (cont.)

2017	41.11	41.15	41.37	41.51
2018	41.59	42.20	42.21	42.07
2019			39.58	39.02

AA

Vintage	Q2 2019 yearly average	Q3 2019 yearly average	Q4 2019 yearly average	Q1 2020 yearly average
2016	27.62	27.81	27.84	27.73
2017	28.15	27.92	28.00	28.06
2018	28.01	28.01	28.02	28.00
2019			28.69	28.39

A

Vintage	Q2 2019 yearly average	Q3 2019 yearly average	Q4 2019 yearly average	Q1 2020 yearly average
2016	21.79	21.75	21.78	21.66
2017	21.48	21.19	21.24	21.27
2018	21.17	21.31	21.32	21.29
2019			21.60	21.57

BBB

Vintage	Q2 2019 yearly average	Q3 2019 yearly average	Q4 2019 yearly average	Q1 2020 yearly average
2016	16.77	16.88	16.91	16.76
2017	16.34	16.23	16.19	16.15
2018	15.98	16.06	16.07	16.03
2019			15.11	15.35

BB

Vintage	Q2 2019 yearly average	Q3 2019 yearly average	Q4 2019 yearly average	Q1 2020 yearly average
2016	10.72	10.71	10.74	10.67
2017	10.49	10.48	10.47	10.47
2018	10.37	10.49	10.50	10.46
2019			9.71	9.90

Weighted-average spread followed recent quarterly trends

Spreads vary based on a variety of factors, including the levels of relative liquidity for leveraged loans or the actual and perceived level of credit risk in the leveraged loan market, among others.

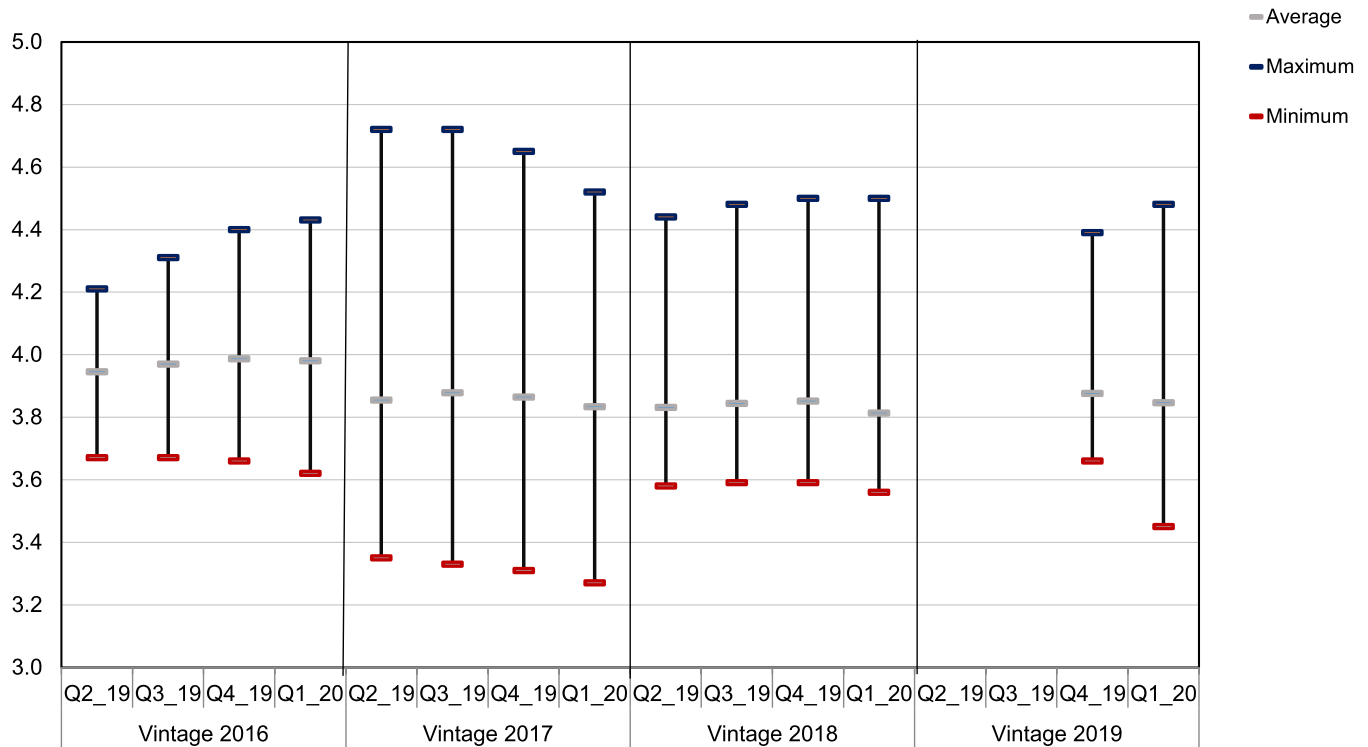
Over the past two to three years, leveraged loans have refinanced at a lower cost, leading to increased difficulty in managing the weighted-average spread test in CLOs and in maintaining the weighted-average cost of debt and a healthy return to equity. Consequently, weighted-average spreads are monitored closely in CLOs. If this measure decreases significantly, the risk of a negative rating action on the notes would increase.

On average, the weighted-average spread has remained stable over the past three quarters, which

has helped CLO managers manage their weighted-average spread tests.

Chart 13

Weighted-Average Spread Over 2019-2020 (By Vintage)



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Senior O/C ratios remained stable

The senior O/C ratio test is a par value test to protect senior noteholders. Declines in the senior O/C ratio test results can indicate decreasing credit quality of the CLO. The O/C ratio is the difference between the O/C test calculated for a particular tranche and the trigger associated with it. Breach of these triggers will mean that senior notes are repaid (until the tests are met again), or if the transaction is in its reinvestment period, the proceeds due on junior notes are either invested in substitute collateral or used to repay the notes.

The senior O/C ratio test cushions were stable for all the cohorts except 2014, 2015 and 2018 (see chart 14).

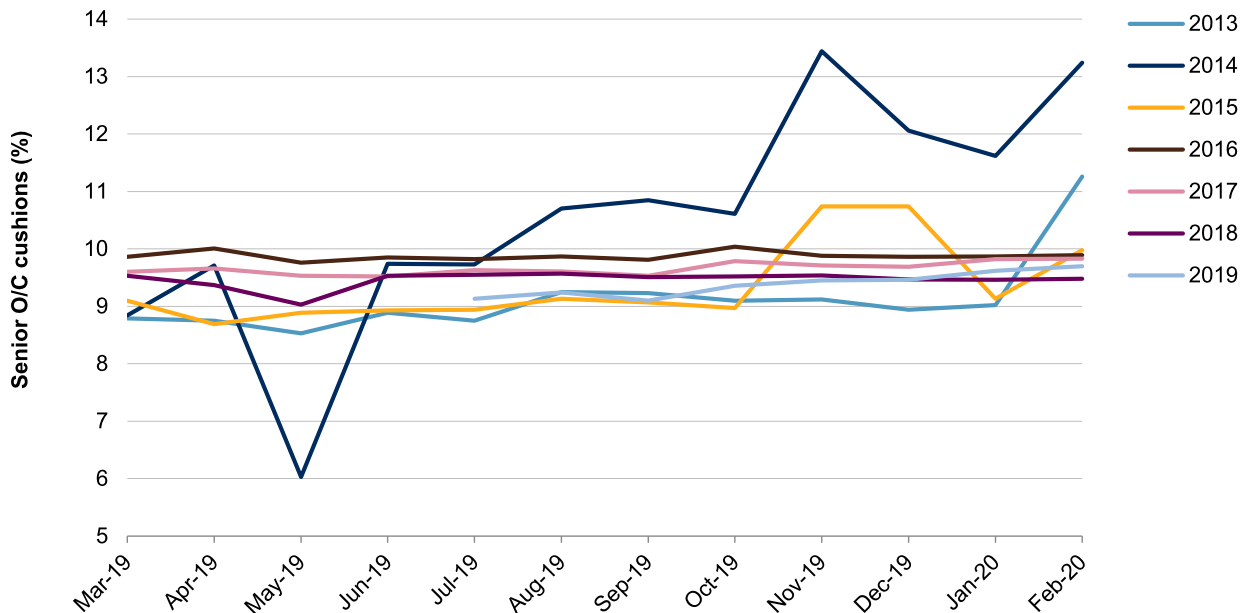
The senior O/C ratio test cushions (based on reported information) as of February 2020 were:

- 2013 vintage CLOs: 11.26% (up from 9.12% in November 2019);
- 2014 vintage CLOs: 13.24% (down from 13.44% in November 2019);
- 2015 vintage CLOs: 9.98% (down from 10.74% in November 2019);
- 2016 vintage CLOs: 9.89% (up from 9.88% in November 2019);

- 2017 vintage CLOs: 9.83% (up from 9.71% in November 2019);
- 2018 vintage CLOs: 9.48% (down from 9.54% in November 2019); and
- 2019 vintage CLOs: 9.70% (up from 9.45% in November 2019).

Chart 14

European CLO Senior O/C Cushions By vintage



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Subordinated O/C ratios remained steady

The subordinated O/C ratio test is the par value test for the junior notes in the CLO. Failure to satisfy this test will typically cause interest and principal to be redirected to pay down the most-senior class of notes until the test is satisfied.

From November 2019 to February 2020, the subordinated O/C ratios remained steady with slightly better performance for the older 2013, 2014 vintages due to deleveraging (see chart 15).

As of February 2020, the subordinated O/C ratio test cushions (based on reported information) were:

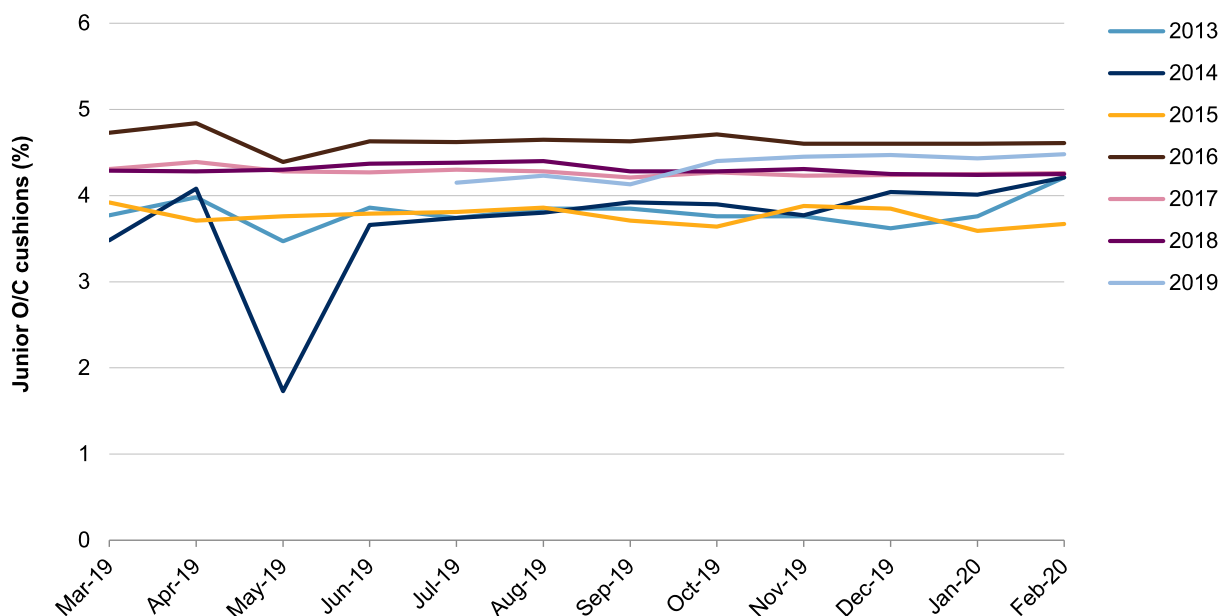
- 2013 vintage CLOs: 4.21% (up from 3.76% in November 2019);
- 2014 vintage CLOs: 4.21% (up from 3.77% in November 2019);
- 2015 vintage CLOs: 3.67% (down from 3.88% in November 2019);

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- 2016 vintage CLOs: 4.61% (up from 4.60% in November 2019);
- 2017 vintage CLOs: 4.26% (up from 4.23% in November 2019);
- 2018 vintage CLOs: 4.25% (down from 4.31% in November 2019); and
- 2019 vintage CLOs: 4.48% (up from 4.45% in November 2019).

Chart 15

European CLO Junior O/C Cushions
By vintage



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Notes

Our European CLO performance index report provides aggregate performance statistics across most of our rated European cash flow CLO transactions backed primarily by corporate loans. We provide this information to help market participants track the overall performance of European cash flow CLO transactions and to benchmark the performance of the transactions they follow against the performance of cohorts of similar transactions.

Our report highlights what we view as a number of key risk areas for the transactions, and which we use as part of our analysis of the credit quality of securitized portfolios and of the transactions' payment structure and cash flow mechanics. These include rating migration within the underlying collateral portfolios, as well as other information relevant to the sector.

We divide the performance information in the CLO indexes into cohorts, each containing data for

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most of the European CLO transactions we rated and issued in a specific vintage year. We collect the performance information from transaction-level performance data in our CDO surveillance databases.

Information prior to the most recent 12 months is available on CDO Interface, S&P Global Ratings' web-based portal for CDO performance information, at www.cdointerface.com. To generate, view, and download data from the CDO indexes, log onto CDO Interface, and then select the "Indexes" tab.

Appendix

Appendix 1

EMEA CLO Corporate Rating Actions (From March 20, 2020 – June 20, 2020)

Action date	Issuer	GIC sector	To	From	No. of European CLOs with exposure	Reason	COVID-19 related
Mar 20, 2020	Cassini	Media	B-/Negative	B/Negative	40	COVID-19 impact and delayed deleveraging	Yes
Mar 20, 2020	Screenvision, LLC	Entertainment	B/Watch Neg	B/Stable	3	Theater closures due to the coronavirus	Yes
Mar 20, 2020	Transportes Aéreos Portugueses, S.A.	Airlines	B/Watch Neg	BB-/Stable(prelim)	3	COVID-19 impact erodes credit metrics	Yes
Mar 21, 2020	Edreams Odigeo S.A.	Internet and catalog retail	B/Watch Neg	B/Stable	4	COVID-19 uncertainty	Yes
Mar 21, 2020	Hurtigruten Group As	Marine	CCC+/Negative	B-/Stable	47	COVID-19 pandemic weakens demand	Yes
Mar 21, 2020	Mohegan Tribal Gaming Authority	Hotels, restaurants, and leisure	B-/Watch Neg	B-/Stable	3	Loss in revenue due to mandated closures amid covid -19 outbreak	Yes
Mar 21, 2020	The Chemours Company Co.	Chemicals	B+/Negative	BB-/Stable	42	Anticipated weaker credit metrics	Yes
Mar 21, 2020	Downstream Development Authority	Hotels, restaurants, and leisure	CCC/Watch Neg	B/Negative	2	Loss in revenue due to mandated closures amid covid -19 outbreak	Yes
Mar 23, 2020	Travelex Holdings Ltd.	Consumer finance	CC/Negative	CCC/Watch Neg	2	Insolvency risk	No
Mar 23, 2020	Specialty Chemicals International B.V.	Chemicals	B+/Stable	B+/Positive	2	Weaker market demand	Yes

EMEA CLO Corporate Rating Actions (From March 20, 2020 – June 20, 2020) (cont.)

Action date	Issuer	GIC sector	To	From	No. of European CLOs with exposure	Reason	COVID-19 related
Mar 23, 2020	Norican A/S	Machinery	B-/Negative	B/Stable	8	Difficult market conditions	Yes
Mar 24, 2020	Nep/Ncp Holdco Inc.	Entertainment	B-/Watch Neg	B/Watch Neg	57	Severe operating challenges	No
Mar 24, 2020	Zinc-Polymer Parent Holdings, LLC	Containers and packaging	CCC+/Negative	B/Stable	3	Expected elevated leverage	No
Mar 24, 2020	Altran Technologies S.A.	It services	BBB/Stable	BB/Watch Pos	44	Acquisition of controlling stake by capgemini	Yes
Mar 24, 2020	Naviera Armas, S.A.	Marine	B-/Negative	B/Stable	13	Weaker earnings and liquidity	Yes
Mar 24, 2020	SGL Carbon SE	Electrical equipment	CCC+/Stable	B-/Negative	4	Continued weak market conditions	Yes
Mar 25, 2020	Casper MidCo	Hotels, restaurants, and leisure	B-/Watch Neg	B-/Positive	49	COVID-19 uncertainty	Yes
Mar 25, 2020	Thame And London Ltd.	Hotels, restaurants, and leisure	CCC+/Watch Neg	B-/Stable	2	COVID-19 impact	Yes
Mar 25, 2020	Coty Inc.	Personal products	B/Watch Neg	B+/Stable	49	Impact of the spread of COVID-19	Yes
Mar 25, 2020	Werner Finco Lp	Commercial services and supplies	B-/Negative	B/Negative	3	COVID-19 issues and continued weak performance	Yes
Mar 25, 2020	Promotora De Informaciones S.A.	Media	B-/Watch Neg	B/Stable	26	High leverage and weaker cash flows	Yes
Mar 26, 2020	Hexion Inc.	Chemicals	B-/Negative	B/Stable	40	Expected lower demand, earnings	No
Mar 26, 2020	Financiere Top Mendel SAS	Health care providers and services	B/Negative	B+/Stable	97	Increased financial leverage	No
Mar 26, 2020	LTI Holdings, Inc.	Auto components	CCC+/Negative	B-/Negative	1	Unsustainable capital structure & expected end-market weakness	Yes
Mar 26, 2020	Clarios Global LP	Trading companies and distributors	B/Stable	B+/Stable	86	Higher-than-expected debt leverage	Yes

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EMEA CLO Corporate Rating Actions (From March 20, 2020 – June 20, 2020) (cont.)

Action date	Issuer	GIC sector	To	From	No. of European CLOs with exposure	Reason	COVID-19 related
Mar 26, 2020	Grupo Antolin Irausa SA	Auto components	B-/Negative	B/Negative	11	COVID-19 impact	Yes
Mar 27, 2020	Mabel Topco Ltd.	Hotels, restaurants, and leisure	B-/Watch Neg	B/Positive	1	COVID-19 disruption	Yes
Mar 27, 2020	Praesidiad Group Ltd.	Capital markets	CCC/Watch Neg	CCC+/Negative	6	Thin covenant headroom and COVID-19 uncertainty	Yes
Mar 27, 2020	Adient PLC	Auto components	B+/Watch Neg	B+/Negative	10	Pandemic risks	Yes
Mar 27, 2020	Stonegate Pub Co. Ltd.	Hotels, restaurants, and leisure	CCC+/Negative	B-/Watch Dev	7	COVID-19 uncertainty	Yes
Mar 27, 2020	Autokiniton Us Holdings, Inc.	Distributors	B/Watch Neg	B+/Stable	2	Impact from the coronavirus	Yes
Mar 27, 2020	EI Group PLC	Hotels, restaurants, and leisure	CCC+/Negative	B/Watch Neg	2	COVID-19 lockdown	Yes
Mar 27, 2020	Lsf9 Balta Issuer S.A.	Household durables	B-/Negative	B/Stable	1	Cash flow generation uncertainty and refinancing risks	Yes
Mar 27, 2020	Thor Industries, Inc.	Automobiles	BB-/Negative	BB/Negative	24	Anticipated COVID-19 impact	Yes
Mar 28, 2020	The Knot Worldwide Inc.	Interactive media and services	B/Watch Neg	B/Stable	1	-	Yes
Mar 28, 2020	Samsonite International S.A.	Textiles, apparel and luxury goods	BB-/Negative	BB+/Watch Neg	1	Impact of coronavirus on travel	Yes
Mar 28, 2020	UC Holdings Inc.	Auto components	B/Watch Neg	B/Stable	2	Coronavirus-related production disruption	Yes
Mar 30, 2020	Afflelou SAS	Specialty retail	B-/Negative	B/Stable	12	Low covenant headroom and sharp decline in volumes linked to COVID-19	Yes
Mar 30, 2020	HNVR Midco Ltd.	It services	CCC+/Negative	B-/Stable	80	COVID-19 impact	Yes
Mar 30, 2020	Kiwi Vfs Sub 1 S.A.R.L.	Capital markets	B/Negative	B+/Stable	47	COVID-19 leads to global travel disruption	Yes

EMEA CLO Corporate Rating Actions (From March 20, 2020 – June 20, 2020) (cont.)

Action date	Issuer	GIC sector	To	From	No. of European CLOs with exposure	Reason	COVID-19 related
Mar 30, 2020	Ammega Group B.V.	Machinery	B-/Stable	B/Stable	56	Likely delay in deleveraging due to the coronavirus pandemic	Yes
Mar 31, 2020	Kestra Advisor Services Holdings A, Inc.	Capital markets	B/Stable	B+/Watch Neg	1	Rate cuts and declining markets	Yes
Mar 31, 2020	International Design Group Spa	Household durables	B/Negative	B/Stable	38	Expected material decline in demand due to COVID-19 outbreak	Yes
Mar 31, 2020	International Park Holdings B.V.	Hotels, restaurants, and leisure	B-/Watch Neg	B-/Stable	52	Uncertainty on the duration of the theme park closures due to COVID-19 pandemic	Yes
Mar 31, 2020	Loxam SAS	Trading companies and distributors	B/Negative	BB-/Negative	12	Negative impact of COVID-19 on financial results	Yes
Mar 31, 2020	Piolin Bidco S.A.U.	Entertainment	B-/Watch Neg	B-/Positive	77	Uncertainty on the duration of the theme park closures due to COVID-19 pandemic	Yes
Mar 31, 2020	Raffinerie Heide GmbH	Oil, gas and consumable fuels	B-/Stable	B/Stable	2	Severe downturn because of COVID-19	Yes
Mar 31, 2020	Vincent Bidco BV (NI)	Commercial services and supplies	B-/Stable	B/Stable	13	Closure of some sites amid COVID-19	Yes
Apr 01, 2020	Tailwind Smith Cooper Holding Corporation	Building products	B-/Negative	B/Stable	3	Expected high leverage	No
Apr 01, 2020	Catluxe Sarl	Textiles, apparel and luxury goods	CCC+/Negative	B-/Stable	23	Unsustainable capital structure due to COVID-19	Yes
Apr 01, 2020	Kirk Beauty One GmbH	Specialty retail	CCC+/Negative	B-/Stable	3	COVID-19 uncertainty and heightened refinancing risk	Yes
Apr 01, 2020	Selecta Group B.V.	Internet and catalog retail	B-/Negative	B/Stable	9	Continued negative free operating cash flow	Yes
Apr 02, 2020	House of HR NV	Commercial services and supplies	B/Negative	B+/Stable	52	COVID-19 measures limit recruitment	Yes
Apr 02, 2020	Jaguar Land Rover Automotive PLC	Automobiles	B/Negative	B+/Negative	1	Weaker credit metrics due to COVID-19 uncertainty	Yes

EMEA CLO Corporate Rating Actions (From March 20, 2020 – June 20, 2020) (cont.)

Action date	Issuer	GIC sector	To	From	No. of European CLOs with exposure	Reason	COVID-19 related
Apr 02, 2020	Sunshine Luxembourg VII S.A.R.L.	Personal products	B-/Stable	B/Negative	51	Expected weakening in credit metrics	Yes
Apr 02, 2020	Zephyr Midco 2 Ltd.	Media	B-/Stable	B/Stable	44	Delayed deleveraging due to COVID-19	Yes
Apr 02, 2020	Transdigm Inc.	Aerospace and defense	B+/Negative	B+/Stable	1	Weaker credit metrics due to coronavirus	No
Apr 03, 2020	Europcar Mobility Group	Road and rail	B-/Watch Neg	BB-/Negative	4	COVID-19 effects and weakening liquidity	Yes
Apr 03, 2020	Franklin Ireland Topco Limited	Consumer finance	B-/Negative	B/Negative	34	COVID-19-related disruption	Yes
Apr 03, 2020	Parts Holding Europe SAS	Specialty retail	B-/Negative	B/Negative	43	Impact from COVID-19	Yes
Apr 03, 2020	Schaeffler AG	Auto components	BBB-/Watch Neg	BBB-/Negative	1	Weaker earnings due to the COVID-19 pandemic	Yes
Apr 03, 2020	AMC Entertainment Holdings INC.	Entertainment	CCC-/Negative	B/Watch Neg	1	Closure of theatres due to COVID-19 outbreak	Yes
Apr 03, 2020	CHG PPC Parent LLC	Food products	B-/Negative	B/Stable	19	Expected profitability hit due to coronavirus	Yes
Apr 03, 2020	Iho Verwaltungs GmbH	Auto components	BBB-/Watch Neg	BBB-/Negative	7	Weaker earnings due to the COVID-19 pandemic	Yes
Apr 03, 2020	Kapla Holding (Kiloutou)	Trading companies and distributors	B/Negative	B+/Stable	67	Uncertainties due to COVID-19	Yes
Apr 04, 2020	Kronos Worldwide Inc.	Chemicals	B-/Negative	B/Stable	7	Expected weaker demand amid global economic slowdown	Yes
Apr 04, 2020	ASP Unifrax Holdings, Inc.	Trading companies and distributors	CCC+/Negative	B-/Stable	32	Weak auto and commodity demand	Yes
Apr 06, 2020	BBD Bidco Ltd.	Commercial services and supplies	B-/Negative	B/Stable	67	COVID-19 measures weigh on sales	Yes
Apr 06, 2020	Solera Holdings Inc.	Software	B-/Negative	B-/Stable	50	Weak economic forecast	No

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EMEA CLO Corporate Rating Actions (From March 20, 2020 – June 20, 2020) (cont.)

Action date	Issuer	GIC sector	To	From	No. of European CLOs with exposure	Reason	COVID-19 related
Apr 07, 2020	Amer Sports Holding 1 Oy	Media	B-/Negative	B+/Stable	56	Declining demand amid COVID-19 pandemic	Yes
Apr 07, 2020	Fire (BC) S.a.r.l.	Chemicals	B-/Stable	B/Stable	49	Weaker expected credit metrics for 2020	No
Apr 07, 2020	Envision Healthcare Corp.	Health care providers and services	CC/Negative	B/Negative	3	Proposed distressed exchange offer	Yes
Apr 07, 2020	Burger King France SAS	Hotels, restaurants, and leisure	B-/Watch Neg	B-/Stable	16	COVID-19 confinement measures	Yes
Apr 07, 2020	Tendam Brands S.A.U.	Specialty retail	B-/Watch Neg	B+/Stable	22	COVID-19 confinement measures	Yes
Apr 07, 2020	Thom Europe S.A.S.	Specialty retail	B/Negative	B/Stable	46	COVID-19 confinement measures	Yes
Apr 08, 2020	Kongsberg Automotive ASA	Distributors	B-/Watch Neg	B-/Watch Neg	11	Liquidity concerns due to covid 19	Yes
Apr 08, 2020	Tenneco INC.	Auto components	B-/Watch Neg	B+/Stable	32	Pandemic-related risks	Yes
Apr 08, 2020	Advantage Sales & Marketing Inc.	Media	CCC+/Watch Dev	B-/Positive	3	Heightened refinancing risk	Yes
Apr 08, 2020	Pinnacle Bidco PLC	Hotels, restaurants, and leisure	B-/Watch Neg	B-/Watch Neg	1	COVID-19 exacerbates high leverage	Yes
Apr 09, 2020	Global Blue Acquisition B.V.	Internet and catalog retail	B+/Stable	BB-/Stable	29	Worsening operating performance amid COVID-19	Yes
Apr 09, 2020	Promontoria Holding 264 B.V.	Air freight and logistics	B-/Negative	B/Negative	40	Weaker earnings and COVID-19 uncertainty	Yes
Apr 09, 2020	Swissport Financing S.A R.L.	Capital markets	CCC/Negative	B-/Stable	81	Risk of debt restructuring due to COVID-19	Yes
Apr 09, 2020	Viskase Companies Inc.	Containers and packaging	CCC/Negative	B-/Watch Neg	1	Refinancing risk	Yes
Apr 10, 2020	GTT Communications, Inc.	Diversified telecommunication services	CCC+/Negative	B-/Negative	56	Potential economic impact from the coronavirus	Yes

EMEA CLO Corporate Rating Actions (From March 20, 2020 – June 20, 2020) (cont.)

Action date	Issuer	GIC sector	To	From	No. of European CLOs with exposure	Reason	COVID-19 related
Apr 10, 2020	Aruba Investments Inc.	Chemicals	B-/Stable	B-/Positive	30	Weakened demand in some of its key end markets	No
Apr 11, 2020	First American Payment Systems LP	It services	B-/Negative	B/Stable	2	Macroeconomic weakness due to COVID-19	Yes
Apr 13, 2020	Wireco Worldgroup Inc.	Metals and mining	B-/Negative	B/Watch Neg	1	Expected lower oil & gas volumes, credit metrics weakness	Yes
Apr 14, 2020	HGIM Corp.	Marine	CCC+/Negative	B-/Stable	3	Unsustainable leverage, weak market conditions	Yes
Apr 14, 2020	Awaze LTD.	Media	B-/Negative	B/Negative	39	Closures due to COVID-19 containment measures	Yes
Apr 14, 2020	Novem Group GmbH	Distributors	B+/ Watch Neg	B+/Stable	13	COVID-19 pandemic	Yes
Apr 14, 2020	Gestamp Automocion S.A.	Auto components	BB/Watch Neg	BB/Negative	1	COVID-19 pandemic	Yes
Apr 15, 2020	Finastra Ltd.	Software	CCC+/Negative	B-/Stable	69	Potentially unsustainable capital structure	Yes
Apr 15, 2020	Shift4 Payments LLC	It services	B-/Negative	B/Stable	1	Macroeconomic weakness from COVID-19	Yes
Apr 16, 2020	McLaren Group Ltd.	Automobiles	CCC/Negative	B/Negative	1	Weak liquidity stemming from COVID-19 uncertainty	Yes
Apr 16, 2020	Anacap Financial Europe S.A.	Capital markets	B+/Watch Neg	B+/Stable	24	Tough environment for the sector amid COVID-19	Yes
Apr 16, 2020	B2Holding Asa	Consumer finance	B+/Negative	BB-/Stable	1	Tough environment for the sector amid COVID-19	Yes
Apr 16, 2020	Intrum Ab (Publ)	Commercial services and supplies	BB/Negative	BB+/Negative	14	Tough environment for the sector amid COVID-19	Yes
Apr 16, 2020	Intrum Ab (Publ)	Commercial services and supplies	B+/Stable	BB-/Stable	26	Tough environment for the sector amid COVID-19	Yes
Apr 16, 2020	Ai Convoy (Luxembourg) S.A.R.L.	Aerospace and defense	B/Negative	B(prelim)/Stable	77	COVID-19 pandemic	Yes

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EMEA CLO Corporate Rating Actions (From March 20, 2020 – June 20, 2020) (cont.)

Action date	Issuer	GIC sector	To	From	No. of European CLOs with exposure	Reason	COVID-19 related
Apr 16, 2020	Rubix Group Finco Ltd.	Trading companies and distributors	B-/Negative	B/Negative	49	Weaker credit metrics amid COVID-19 uncertainty	Yes
Apr 16, 2020	Sazka Group A.S.	Hotels, restaurants, and leisure	B+/Negative	BB-/Negative	3	COVID-19 pandemic	Yes
Apr 16, 2020	Tele Columbus AG	Media	B-/Watch Neg	B-/Negative	72	Operational setbacks	Yes
Apr 16, 2020	Ai Ladder (Luxembourg) Subco S.A.R.L.	Electrical equipment	B/Negative	B/Stable	2	COVID-19 impact	Yes
Apr 16, 2020	ASR Media and Sponsorship S.p.A.	Project leisure and gaming	B+/Watch Neg	BB-/Stable	11	Uncertainty on sporting events because of COVID-19 pandemic	Yes
Apr 16, 2020	Inter Media And Communication S.P.A.	Project leisure and gaming	B+/Watch Neg	BB-/Stable	4	Uncertainty on sporting events because of COVID-19 pandemic	Yes
Apr 17, 2020	Safety Products/JHC Acquisition Corp.	Metals and mining	B-/Negative	B/Stable	2	Higher expected leverage	Yes
Apr 17, 2020	Kraton Polymers LLC	Chemicals	B+/Negative	B+/Positive	2	Debt reduction	No
Apr 17, 2020	Lsf10 XI Bidco SCA	Building products	B+/Negative	B+/Stable	10	Weaker revenue prospects	No
Apr 18, 2020	RGIS Holdings LLC	Commercial services and supplies	CCC-/Watch Neg	CCC+/Negative	3	Likely near-term covenant violation	No
Apr 18, 2020	Dynasty Acquisition Co., Inc.	Aerospace and defense	B-/Negative	B/Stable	1	Lower air traffic due to coronavirus pandemic	Yes
Apr 20, 2020	Joye Media SLU	Entertainment	B-/Watch Neg	BB-/Stable	28	COVID-19 impact on earnings and liquidity	Yes
Apr 20, 2020	Lima Corporate S.P.A.	Health care equipment and supplies	B-/Stable	B/Stable	7	Deviation from deleveraging trajectory due to COVID-19 fallout	Yes
Apr 21, 2020	Diamond (BC) B.V.	Chemicals	CCC+/Negative	B-/Negative	54	Anticipated global recession in 2020	Yes

EMEA CLO Corporate Rating Actions (From March 20, 2020 – June 20, 2020) (cont.)

Action date	Issuer	GIC sector	To	From	No. of European CLOs with exposure	Reason	COVID-19 related
Apr 21, 2020	Perstorp Holding Ab (Publ)	Chemicals	B-/Negative	B/Negative	54	Weakened demand in COVID-19 fallout	Yes
Apr 21, 2020	Altice Luxembourg SA	Media	NR	B/Negative	3	-	Yes
Apr 21, 2020	P&Iswidco GmbH	Media	NR	B/Negative	8	-	Yes
Apr 21, 2020	LSFX Flavum Bidco S.A.	Chemicals	B/Negative	B/Stable	23	Economic impact from COVID-19	Yes
Apr 22, 2020	Engine Holding LLC	Media	D	CCC-/Negative	2	Forbearance agreement following missed debt interest and amortization payments	No
Apr 22, 2020	Takko Fashion S.a.r.l.	Specialty retail	CCC+/Negative	B-/Stable	19	COVID-19 uncertainty and covenant breach risk	Yes
Apr 22, 2020	Breitling Financing S.A R.L.	Textiles, apparel and luxury goods	B-/Stable	B/Stable	52	Expected increase in leverage due to COVID-19	Yes
Apr 23, 2020	Nets Topco 3 S.a r.l.	Software	B-/Negative	B/Developing	101	COVID-19 impact	Yes
Apr 23, 2020	Paysafe Group Holdings II Ltd.	Technology hardware, storage and peripherals	B-/Stable	B/Stable	64	COVID-19-related macroeconomic weakness	Yes
Apr 23, 2020	Marcolin Spa	Health care equipment and supplies	B-/Negative	B/Stable	6	Liquidity stress due to COVID-19 fallout	Yes
Apr 23, 2020	Novafives	Machinery	B-/Stable	B/Negative	27	Weaker 2019 results due to COVID-19	Yes
Apr 24, 2020	Motion Midco Ltd.	Hotels, restaurants, and leisure	B/Watch Neg	B+/Watch Neg	65	COVID-19 impact	Yes
Apr 25, 2020	Brand Industrial Services, Inc.	Construction and engineering	B-/Negative	B-/Stable	3	Risk of elevated debt leverage	No
Apr 27, 2020	GHD Verwaltung Gesundheits GmbH Deutschland GmbH	Health care equipment and supplies	B-/Stable	B/Negative	37	Operating underperformance	Yes

EMEA CLO Corporate Rating Actions (From March 20, 2020 – June 20, 2020) (cont.)

Action date	Issuer	GIC sector	To	From	No. of European CLOs with exposure	Reason	COVID-19 related
Apr 28, 2020	Rodenstock GmbH	Health care equipment and supplies	B-/Stable	B/Stable	27	Projected weaker demand	Yes
Apr 29, 2020	Envision Healthcare Corp.	Health care providers and services	SD	CC/Negative	3	Distressed exchange	Yes
Apr 29, 2020	Qualtek USA, LLC	Construction and engineering	B-/Negative	B/Negative	2	Weaker than expected operating results	Yes
Apr 29, 2020	BME Group Holding BV	Trading companies and distributors	B/Negative	B/Stable	18	Weakened demand from COVID-19 fallout	Yes
Apr 30, 2020	Codere S.A.	Hotels, restaurants, and leisure	CCC/Negative	CCC+/Negative	19	Heightened default risk	No
Apr 30, 2020	Cineworld Group PLC	Entertainment	CCC+/Watch Neg	B/Watch Neg	21	Weak liquidity and uncertainty on when cinemas will reopen	No
Apr 30, 2020	Quimper AB	Trading companies and distributors	B/Negative	B/Stable	100	Likely weaker demand	No
May 01, 2020	EG Group Ltd.	Specialty retail	B-/Stable	B/Negative	95	Expected slower deleveraging amid COVID-19 disruption	Yes
May 04, 2020	Gamenet Group S.P.A.	Hotels, restaurants, and leisure	B/Negative	B+/Watch Neg	47	Apollo acquisition and COVID-19 effects	Yes
May 05, 2020	Envision Healthcare Corp.	Health care providers and services	CCC/Negative	SD	3	Debt rating actions taken	Yes
May 05, 2020	Commercial Vehicle Group Inc.	Machinery	B/Negative	B/Stable	3	Lower demand	No
May 05, 2020	Haya Real Estate S.A.U	Real estate management and development	B-/Negative	B-/Stable	26	COVID-19 containment measures are likely to limit covenant headroom	Yes
May 05, 2020	Sisal Group S.P.A	Hotels, restaurants, and leisure	B/Negative	B+/Negative	22	COVID-19 impact	Yes
May 07, 2020	Archroma Holdings S.à r.l.	Chemicals	B/Negative	B/Stable	49	Weaker earnings amid COVID-19	Yes

EMEA CLO Corporate Rating Actions (From March 20, 2020 – June 20, 2020) (cont.)

Action date	Issuer	GIC sector	To	From	No. of European CLOs with exposure	Reason	COVID-19 related
May 07, 2020	Dexko Global Inc.	Auto components	B-/Negative	B/Stable	28	Expected weaker demand	Yes
May 09, 2020	Banff Parent Inc.	Software	B-/Stable	B-/Watch Neg	15	Compuware acquisition	No
May 12, 2020	Flutter Entertainment PLC	Hotels, restaurants, and leisure	BB+/Watch Neg	B+/Watch Pos	62	Rating upgrade post merger with flutter entertainment	No
May 12, 2020	New Look Bonds Ltd.	Specialty retail	NR	CCC+/Negative	9	Rating downgraded on liquidity concerns and then withdrawn on issuer's request	No
May 12, 2020	Sisalpay Group S.P.A.	It services	BB-/Negative	BB-/Stable	54	Downgrade of corporate parent sisal group	No
May 13, 2020	Foodco Bondco SAU	Hotels, restaurants, and leisure	CCC+/Negative	B/Stable	31	COVID-19 uncertainty	Yes
May 14, 2020	MEIF 5 Arena Holdings SLU	Commercial services and supplies	BB-/Negative	BB/Stable	12	Likely slower deleveraging amid COVID-19 disruption	Yes
May 14, 2020	Infopro Digital Group B.V.	Software	B-/Stable	B/Stable	11	COVID-19-related deleveraging constraints and refinancing risk	Yes
May 14, 2020	U.S. Renal Care Inc.	Health care providers and services	B-/Stable	B/Stable	3	Underperformance and weaker discretionary cash flow	Yes
May 18, 2020	L1R HB Finance Ltd.	Specialty retail	CCC+/Stable	B-/Negative	30	COVID-19 disruption	Yes
May 19, 2020	Takko Fashion S.a.r.l.	Specialty retail	SD	CCC+/Negative	19	Missed interest payments	No
May 19, 2020	Schoeller Packaging B.V.	Containers and packaging	B-/Negative	B/Stable	4	Weak cash flow generation prospects	Yes
May 20, 2020	Groupe Ecore Holding	Commercial services and supplies	CCC+/Stable	B-/Stable	3	COVID-19 disruption, unsustainable capital structure	Yes
May 20, 2020	Nordex SE	Electrical equipment	B-/Stable	B/Stable	2	COVID-19 impact	Yes

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EMEA CLO Corporate Rating Actions (From March 20, 2020 – June 20, 2020) (cont.)

Action date	Issuer	GIC sector	To	From	No. of European CLOs with exposure	Reason	COVID-19 related
May 20, 2020	Sigma Holdco BV	Food products	B+/Negative	B+/Stable	17	Expected weaker cash flow due to separation-related costs	No
May 20, 2020	Jacobs Douwe Egberts International B.V.	Food products	BB/Watch Pos	BB/Positive	26	Ipo announcement	Yes
May 21, 2020	Downstream Development Authority	Hotels, restaurants, and leisure	SD	CCC/Watch Neg	2	Term loan modification	Yes
May 25, 2020	Travelex Holdings Ltd.	Consumer finance	SD	CC/Negative	2	Missed interest payment on senior secured notes	No
May 27, 2020	Contourglobal Power Holdings S.A.	Electric utilities	BB/Stable	BB-/Positive	1	Business resilience	Yes
May 28, 2020	Rolls Royce PLC	Aerospace and defense	BB/Negative	BBB-/Watch Neg	1	COVID-19 impact	Yes
May 28, 2020	William Hill PLC	Hotels, restaurants, and leisure	BB-/Negative	BB/Stable	1	COVID-19 impact	Yes
May 28, 2020	Anacap Financial Europe S.A.	Capital markets	B/Stable	B+/Watch Neg	25	Further deterioration of its financial profile	Yes
May 29, 2020	Europcar Mobility Group	Road and rail	CCC+/Negative	B-/Watch Neg	5	COVID-19 disruption and potential liquidity pressure	Yes
May 29, 2020	Global University Systems Holding BV	Diversified consumer services	B/Watch Neg	B/Stable	79	COVID-19 uncertainties	Yes
May 29, 2020	Downstream Development Authority	Hotels, restaurants, and leisure	CCC/Negative	SD	2	Term loan modification	Yes
May 30, 2020	Infor Inc.	Software	BBB/Stable	B-/Watch Pos	75	Acquisition by koch industries	Yes
May 30, 2020	Technicolor S.A.	Entertainment	CCC-/Negative	B-/Stable	29	Plan to raise additional debt	Yes
May 30, 2020	Carlson Travel Inc.	Hotels, restaurants, and leisure	CCC/Negative	B-/Watch Neg	12	Business declines from COVID-19	Yes
Jun 02, 2020	Al Alpine At Bidco	Machinery	B/Watch Neg	B/Stable	73	Weaker performance prospects	Yes

EMEA CLO Corporate Rating Actions (From March 20, 2020 – June 20, 2020) (cont.)

Action date	Issuer	GIC sector	To	From	No. of European CLOs with exposure	Reason	COVID-19 related
Jun 03, 2020	AMC Entertainment Holdings Inc.	Entertainment	CC/Negative	CCC-/Negative	1	Subordinated notes exchange offer	Yes
Jun 03, 2020	Galileo Global Education Finance Sarl	Diversified consumer services	B/Negative	B/Stable	78	Forecasted increase in debt	No
Jun 04, 2020	PHM Netherlands Midco B.V.	Chemicals	B-/Stable	B/Negative	9	Elevated debt leverage; debt ratings lowered	Yes
Jun 04, 2020	Swissport Financing S.A R.L.	Capital markets	CCC/Watch Neg	CCC/Negative	72	Launching consent solicitation and scheme of arrangement	Yes
Jun 08, 2020	Auris Luxembourg II S.a.r.l.	Health care equipment and supplies	B-/Stable	B/Negative	112	Delayed deleveraging prospects	Yes
Jun 09, 2020	Masmovil Ibercom SA.	Electric utilities	BB-/Watch Neg	BB-/Stable	96	Takeover bid by providence, cinven, and kkr	No
Jun 09, 2020	OQ Chemicals Holding Drei GmbH	Chemicals	B/Negative	B+/Stable	58	Parent company's exposure to oil prices	Yes
Jun 09, 2020	Pro.Gest Spa	Containers and packaging	CCC+/Negative	B-/Watch Neg	3	Ongoing liquidity concerns	Yes
Jun 10, 2020	RGIS Holdings LLC	Commercial services and supplies	D/NM	CCC-/Watch Neg	3	Missed interest payment on debt	No
Jun 10, 2020	Cassini SAS	Media	B-/Watch Neg	B-/Negative	48	Show cancellations and postponements	Yes
Jun 10, 2020	Foodco Bondco SAU	Hotels, restaurants, and leisure	CCC-/Negative	CCC+/Negative	31	Debt restructuring risk	Yes
Jun 11, 2020	iQor Holdings Inc.	It services	CC/Negative	CCC/Negative	2	Bridge loan containing specific default language	No
Jun 11, 2020	Flutter Entertainment PLC	Hotels, restaurants, and leisure	BB+/Stable	BB+/Watch Neg	67	Raised equity of £813 million via a share placement	No
Jun 11, 2020	Banjay Group SAS	Entertainment	B/Negative	B+/Watch Neg	16	Weakening metrics due to COVID-19 operating disruptions	Yes
Jun 16, 2020	Warner Music Group Corp.	Entertainment	BB/Stable	BB-/Positive	6	Sustained operating and industry strength	No

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EMEA CLO Corporate Rating Actions (From March 20, 2020 – June 20, 2020) (cont.)

Action date	Issuer	GIC sector	To	From	No. of European CLOs with exposure	Reason	COVID-19 related
Jun 17, 2020	Albea Beauty Holdings S.A.	Containers and packaging	B/Negative	B/Watch Dev	50	Sale of dispensing segment	No
Jun 17, 2020	Codere S.A.	Hotels, restaurants, and leisure	CCC-/Negative	CCC/Negative	19	Heightened default risk	No
Jun 17, 2020	Hercule Debtco S.A.R.L.	Containers and packaging	B/Negative	B/Watch Dev	4	Sale of dispensing segment	No
Jun 17, 2020	Scientific Games Corp.	Hotels, restaurants, and leisure	B/Negative	B/Watch Neg	20	Less volatile lottery business	No
Jun 17, 2020	Screenvision, LLC	Entertainment	B/Negative	B/Watch Neg	3	High leverage amid prolonged theater closures	Yes
Jun 17, 2020	Shift4 Payments LLC	It services	B/Stable	B-/Negative	1	Debt reduction from IPO	No
Jun 18, 2020	Hema B.V.	Specialty retail	CC/Negative	CCC/Negative	11	Proposed debt restructuring	No
Jun 18, 2020	Joye Media SLU	Entertainment	B-/Watch Neg	B/Watch Neg	31	Fragile liquidity	No
Jun 19, 2020	Faurecia SE	Auto components	BB/Stable	BB+/Watch Neg	8	COVID-19 weakens deleveraging prospects	Yes
Jun 20, 2020	Forming Machining Industries Holdings, LLC	Aerospace and defense	CCC+/Negative	B-/Negative	2	Coronavirus-related fallout	Yes

Appendix 2

Performing Public Issuers Rated 'B-' Or Lower In European CLO Deals As Of June 19, 2020

Issuer	Issuer credit rating	Outlook/CreditWatch	GIC sector	Country	Principal funded balance (€)	Rank order
CAB	B-	Stable	Health care providers and services	France	289,595,048	1
Sapphire Bidco B.V.	B-	Negative	Commercial services and supplies	Netherlands	271,382,046	2
Tele Columbus AG	B-	Watch Neg	Media	Germany	263,496,381	3

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Performing Public Issuers Rated 'B-' Or Lower In European CLO Deals As Of June 19, 2020 (cont.)

Issuer	Issuer credit rating	Outlook/CreditWatch	GIC sector	Country	Principal funded balance (€)	Rank order
Piolin Bidco S.A.U.	B-	Watch Neg	Hotels, restaurants, and leisure	Spain	233,304,822	4
Diamond (Bc) B.V.	CCC+	Negative	Household products	Netherlands	229,814,951	5
Rubix Group Finco Ltd.	B-	Negative	Trading companies and distributors	U.K.	221,025,029	6
IGT Holding IV AB	B-	Stable	Software	Sweden	209,155,344	7
Speedster Bidco GmbH	B-	Stable	Internet and catalog retail	Germany	201,391,920	8
Ammega Group B.V.	B-	Stable	Machinery	Netherlands	191,202,219	9
Bbd Bidco Ltd.	B-	Negative	Commercial services and supplies	U.K.	185,302,181	10
Sunshine Luxembourg VII S.A R.L.	B-	Stable	Personal products	Switzerland	182,410,728	11
Solera Holdings Inc.	B-	Negative	Software	U.S.	180,755,936	12
International Park Holdings B.V.	B-	Watch Neg	Hotels, restaurants, and leisure	Spain	168,900,777	13
Swissport Financing S.A.R.L.	CCC	Watch Neg	Capital markets	Luxembourg	161,230,383	14
Perstorp Holding AB (Publ)	B-	Negative	Chemicals	Sweden	155,108,623	15
Breitling Financing S.A.R.L.	B-	Stable	Textiles, apparel, and luxury goods	Switzerland	154,563,638	16
Antigua Bidco Ltd.	B-	Stable	Pharmaceuticals	U.K.	149,651,957	17
Kloeckner Pentaplast Of America Inc.	B-	Negative	Containers and packaging	U.S.	149,614,722	18
Hurtigruten Group AS	CCC+	Negative	Marine	Norway	144,591,631	19
Keter Group B.V.	CCC+	Stable	Household durables	Netherlands	133,742,837	20
Lernen Bidco Ltd.	B-	Stable	Diversified consumer services	U.K.	129,930,199	21
Informatica LLC	B-	Stable	Software	U.S.	124,589,441	22
Cassini SAS	B-	Watch Neg	Media	France	120,589,582	23
Promotora De Informaciones S.A.	B-	Watch Neg	Media	Spain	116,005,733	24
Diebold Nixdorf Inc.	B-	Negative	Technology hardware, storage, and peripherals	U.S.	111,857,674	25
Awaze Ltd.	B-	Negative	Hotels, restaurants, and leisure	U.K.	111,236,704	26

Performing Public Issuers Rated 'B-' Or Lower In European CLO Deals As Of June 19, 2020 (cont.)

Issuer	Issuer credit rating	Outlook/CreditWatch	GIC sector	Country	Principal funded balance (€)	Rank order
Gamma Infrastructure III B.V.	B-	Stable	Diversified telecommunication services	Netherlands	109,163,946	27
Vue International Bidco PLC	B-	Negative	Entertainment	U.K.	108,429,180	28
Aenova Holding GmbH	B-	Stable	Pharmaceuticals	Germany	105,460,000	29
Technicolor S.A.	CCC-	Negative	Entertainment	France	104,407,547	30
L1R Hb Finance Ltd.	CCC+	Stable	Specialty retail	U.K.	104,315,141	31
Dexko Global Inc.	B-	Negative	Auto components	U.S.	102,937,554	32
Saphilux S.A.R.L.	B-	Stable	Capital markets	Luxembourg	95,664,729	33
Aruba Investments Inc.	B-	Stable	Chemicals	U.S.	93,999,251	34
Excelitas Technologies Corp.	B-	Stable	Electronic equipment, instruments, and components	U.S.	91,241,833	35
ASP Unifrax Holdings, Inc.	CCC+	Negative	Trading companies and distributors	U.S.	86,325,403	36
GHD Verwaltung Gesundheits GmbH Deutschland GmbH	B-	Stable	Health care equipment and supplies	Germany	82,548,000	37
Haya Real Estate S.A.U.	B-	Negative	Real estate management and development	Spain	80,163,000	38
BCPE Max Dutch Bidco B.V.	B-	Stable	Pharmaceuticals	Netherlands	79,412,935	39
Deerfield Dakota Holding LLC	B-	Stable	Professional services	U.S.	76,979,582	40
Everest Bidco SAS	B-	Stable	Electronic equipment, instruments, and components	France	74,905,565	41
Faerch Bidco ApS	B-	Stable	Containers and packaging	Denmark	73,481,180	42
Sisaho International	B-	Negative	Insurance	France	65,658,192	43
Capri Acquisitions Bidco Ltd.	B-	Stable	Professional services	U.K.	62,882,956	44
Getty Images Inc.	B-	Watch Neg	Interactive media and services	U.S.	62,790,220	45
Novafives	B-	Stable	Machinery	France	60,451,000	46
Promontoria Holding 264 B.V.	B-	Negative	Air freight and logistics	Netherlands	54,229,000	47
Chg PPC Parent LLC	B-	Negative	Food products	U.S.	53,670,330	48

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Performing Public Issuers Rated 'B-' Or Lower In European CLO Deals As Of June 19, 2020 (cont.)

Issuer	Issuer credit rating	Outlook/CreditWatch	GIC sector	Country	Principal funded balance (€)	Rank order
Vincent Bidco Bv (NL)	B-	Stable	Commercial services and supplies	Netherlands	52,605,000	49
Flint Holdco S.A R.L.	CCC+	Negative	Commercial services and supplies	Luxembourg	47,870,721	50
Rodenstock GmbH	B-	Stable	Health care equipment and supplies	Germany	47,848,475	51
Trident TPI Holdings, Inc.	B-	Negative	Containers and packaging	U.S.	39,839,269	52
Foodco Bondco SAU	CCC-	Negative	Hotels, restaurants, and leisure	Spain	38,303,000	53
Mediarena Acquisition B.V.	CCC+	Watch Pos	Entertainment	Netherlands	31,877,169	54
Burger King France SAS	B-	Watch Neg	Hotels, restaurants, and leisure	France	31,004,000	55
Advanz Pharma Corp	B-	Stable	Pharmaceuticals	Canada	30,322,169	56
Selecta Group B.V.	B-	Negative	Internet and catalog retail	Netherlands	29,250,000	57
Phm Netherlands Midco B.V.	B-	Stable	Chemicals	Netherlands	28,240,000	58
Naviera Armas, S.A.	B-	Negative	Marine	Spain	28,227,000	59
Catluxe Sarl	CCC+	Negative	Textiles, apparel, and luxury goods	Luxembourg	26,500,000	60
Grupo Antolin Irausa SA	B-	Negative	Auto components	Spain	24,870,000	61
Mangrove Luxco Iii Sarl	B-	Stable	Machinery	Luxembourg	24,714,870	62
Lima Corporate S.P.A.	B-	Stable	Health care equipment and supplies	Italy	24,360,000	63
Carlson Travel Inc.	CCC	Negative	Hotels, restaurants, and leisure	U.S.	23,441,000	64
Monitchem Holdco 2 S.A.	B-	Stable	Chemicals	Luxembourg	23,300,000	65
Veritas Bermuda Ltd.	B-	Negative	Software	Bermuda	19,887,000	66
Norican A/S	B-	Negative	Machinery	Denmark	15,695,000	67
Comet Bidco Ltd.	B-	Watch Neg	Media	U.K.	14,579,360	68
Diaverum Holding Sarl	B-	Stable	Health care providers and services	Luxembourg	13,000,000	69
Marcolin SpA	B-	Negative	Health care equipment and supplies	Italy	12,821,000	70

Performing Public Issuers Rated 'B-' Or Lower In European CLO Deals As Of June 19, 2020 (cont.)

Issuer	Issuer credit rating	Outlook/CreditWatch	GIC sector	Country	Principal funded balance (€)	Rank order
Hgim Corp.	CCC+	Negative	Marine	U.S.	9,162,928	71
Citgo Petroleum Corp.	B-	Stable	Oil, gas, and consumable fuels	U.S.	8,576,394	72
Mulhacen Pte. Ltd.	B-	Negative	Banks	Singapore	8,450,000	73
Pro.Gest SpA	CCC+	Negative	Containers and packaging	Italy	8,200,000	74
Advantage Sales & Marketing Inc.	CCC+	Watch Dev	Media	U.S.	8,180,321	75
Werner FinCo LP	B-	Negative	Commercial services and supplies	U.S.	8,024,146	76
Brand Industrial Services, Inc.	B-	Negative	Construction and engineering	U.S.	7,058,383	77
U.S. Renal Care Inc.	B-	Stable	Health care providers and services	U.S.	6,873,768	78
Holley Purchaser, Inc.	B-	Negative	Auto components	U.S.	6,828,451	79
Air Methods Corporation	B-	Stable	Health care providers and services	U.S.	6,626,099	80
Envision Healthcare Corp.	CCC	Negative	Health care providers and services	U.S.	6,368,891	81
Sgl Carbon SE	CCC+	Stable	Electrical equipment	Germany	5,810,000	82
Mohegan Tribal Gaming Authority	CCC+	Negative	Hotels, restaurants, and leisure	U.S.	5,404,369	83
Stonegate Pub Co. Ltd.	CCC+	Negative	Hotels, restaurants, and leisure	U.K.	5,002,200	84
Titlemax Finance Corp	B-	Stable	Consumer finance	U.S.	4,598,571	85
Team Health Holdings, Inc.	B-	Negative	Health care providers and services	U.S.	4,205,412	86
Option Care Health Inc.	B-	Stable	Health care providers and services	U.S.	4,135,984	87
Downstream Development Authority	CCC	Negative	Hotels, restaurants, and leisure	U.S.	3,696,711	88
Nordex SE	B-	Stable	Electrical equipment	Germany	3,600,000	89
Jazz Acquisition Inc.	B-	Negative	Aerospace and defense	U.S.	3,482,741	90
Groupe Ecore Holding	CCC+	Stable	Commercial services and supplies	France	3,200,000	91
First American Payment Systems LP	B-	Negative	It services	U.S.	2,759,143	92

Performing Public Issuers Rated 'B-' Or Lower In European CLO Deals As Of June 19, 2020 (cont.)

Issuer	Issuer credit rating	Outlook/CreditWatch	GIC sector	Country	Principal funded balance (€)	Rank order
Qualtek Usa, LLC	B-	Negative	Construction and engineering	U.S.	2,723,769	93
Shearer'S Foods, Inc.	B-	Positive	Food products	U.S.	2,708,024	94
Schoeller Packaging B.V.	B-	Negative	Containers and packaging	Netherlands	2,500,000	95
Transportes Aereos Portugueses, S.A.	B-	Watch Neg	Airlines	Portugal	2,500,000	96
Minotaur Acquisition, Inc.	B-	Stable	Capital markets	U.S.	2,409,929	97
Zephyr Midco 2 Ltd.	B-	Stable	Interactive media and services	U.K.	2,270,700	98
Raffinerie Heide GmbH	B-	Stable	Oil, gas and consumable fuels	Germany	2,250,000	99
Kirk Beauty One GmbH	CCC+	Negative	Specialty retail	Germany	1,943,000	100
Lago Resort & Casino	CCC	Negative	Hotels, restaurants and leisure	U.S.	1,810,595	101
Southern Graphics Inc.	CCC+	Negative	Commercial services and supplies	U.S.	1,688,000	102
Pinnacle Bidco Plc	B-	Watch Neg	Hotels, restaurants, and leisure	U.K.	1,632,940	103
Pluto Acquisition I, Inc.	B-	Positive	Health care providers and services	U.S.	1,385,658	104
Safety Products/Jhc Acquisition Corp.	B-	Negative	Metals and mining	U.S.	1,367,033	105
Forming Machining Industries Holdings, LLC	B-	Negative	Aerospace and defense	U.S.	1,361,283	106
Wireco Worldgroup Inc.	B-	Negative	Metals and mining	U.S.	1,331,754	107
Dynasty Acquisition Co., Inc.	B-	Negative	Aerospace and defense	U.S.	957,704	108
Airxcel Inc.	B-	Watch Neg	Machinery	U.S.	868,453	109
Lsf9 Balta Issuer S.A.	B-	Negative	Household durables	Belgium	810,000	110
Belk, Inc.	CCC	Negative	Multiline retail	U.S.	705,584	111
Distribuidora Internacional De Alimentacion S.A.	CCC	Negative	Food and staples retailing	Spain	700,000	112
Na Rail Hold Co LLC	B-	Stable	Road and rail	U.S.	458,800	113

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Performing Public Issuers Rated 'B-' Or Lower In European CLO Deals As Of June 19, 2020 (cont.)

Issuer	Issuer credit rating	Outlook/CreditWatch	GIC sector	Country	Principal funded balance (€)	Rank order
Viskase Companies Inc.	CCC	Negative	Containers and packaging	U.S.	370,339	114

Related Criteria

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