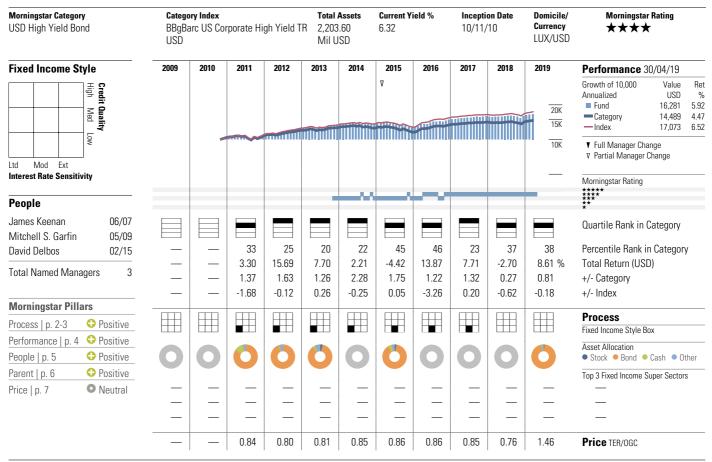
Morningstar Analyst Rating

16 Oct 2018
00:00, UTC-

LU0552552704



Analyst View

Mara Dobrescu, CFA, Director

A credible contender in the US high-yield space.

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Morningstar Analyst Rating

Morningstar evaluates mutual funds based on five key pillars, which its analysts believe lead to funds that are more likely to outperform over the long term on a risk-adjusted basis.

Analyst Rating Spectrum

₩ Gold **②** Silver

🛂 Silver 💢 Bronze

Neutral Negative

The Morningstar Analyst Rating for Funds is a forward-looking analysis of a fund. Morningstar has identified five key areas crucial to predicting the future success of a fund: People, Parent, Process, Performance, and Price The pillars are used in determining the Morningstar Analyst Rating for a fund, Morningstar Analyst Ratings are assigned on a five-tier scale running from Gold to Negative. The top three ratings, Gold, Silver, and Bronze, all indicate that our analysts think highly of a fund; the difference between them corresponds to differences in the level of analyst conviction in a fund's ability to outperform its benchmark and peers through time, within the context of the level of risk taken over the long term (defined as a full market cycle or at least five years). Neutral represents funds in which our analysts don't have a strong positive or negative conviction over the long term (defined as a full market cycle or at least five years) and Negative represents funds that possess at least one flaw that our analysts believe is likely to significantly hamper future performance over the long term (defined as a full market cycle or at least five years). Past performance of a security may or may not be sustained in future and is no indication of future performance. For detailed information about the Morningstar Analyst Rating for Funds, please visit http://global.morningstar.com/managerdis

16 Oct, 2018 | BGF US Dollar High Yield's managers have demonstrated their ability to maintain the fund's edge over time, making the most of an expansive tool kit to navigate various market environments. The fund's fees have come down slightly over the past year, which is a move in the right direction, though they are not yet cheap enough to give this fund a significant tailwind over the competition. Overall, the fund earns a Morningstar Analyst Rating of Bronze.

Instead of targeting a sweet spot on the credit-quality spectrum, this fund's managers aim to make the most of their flexible approach, turning cautious when riskier bonds offer paltry compensation and bold when risk-taking pays. Given the strategy's girth--this \$2.5 billion fund represents only a fraction of the team's nearly \$45 billion high-yield market footprint--staying nimble in the cash bond market is easier said than done. The team attempts to overcome those challenges by broadening the fund's scope to include investment-grade corporates and collateralised loan obligations on the defensive side and equities (up to 10%) on the aggressive end. (Contrary to its USdomiciled version, though, this UCITS vehicle does not invest in bank loans). In recent years, the fund has also used exchange-traded funds, credit default swaps, and total return swaps to quickly gain diversified market exposure when cash bonds are scarce.

While the managers still viewed the high-yield market as attractive in 2018 and weren't anticipating a downturn, they were focused on earning income and mitigating downside risk. Over the course of 2018, the team became more cautious, preferring collateralised loan obligation securities to short-duration high-yield assets and higher-quality, lower-coupon high-yield bonds. In parallel, the team has increased its net long equity exposure (3% as of the end of September 2018), which has been the main contributor for the year to date through September 2018.

The fund's eclectic style won't always work. While the team got the energy call right in 2015, its equity exposure weighed on returns. Over time, though, this approach has impressed: The fund's since-inception 6% annualised return, under Jimmy Keenan's watch, through September 2018, largely outpaced its category average (4.4%) without excess volatility.



Morningstar Analyst Rating Bronze

16 Oct 2018 00:00, UTC-0500

LU0552552704

Process: Approach

Morningstar Category USD High Yield Bond **Category Index** BBgBarc US Corporate High Yield TR USD

Adaptable.

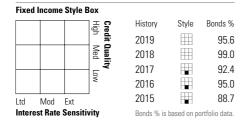
Process Pillar



16 Oct, 2018 | A versatile approach that makes the most of BlackRock's credit capabilities and risk-management resources earns a Positive Process rating. Manager Jimmy Keenan sets the portfolio's top-down themes based on input from the high-yield team plus insights from the firm's broader fundamental fixed-income and equity

platforms. Comanagers Dave Delbos and Mitch Garfin then work with the team's traders and research analysts to populate the portfolio from the bottom up. Given the nearly \$45 billion in active high-yield assets run by BlackRock, the fund is less nimble than some of its peers. It invests mainly in the market's larger, more-liquid issues, and it can be challenging for the team to express macro themes quickly and efficiently in the highyield cash bond market. The process aims to overcome those limitations by expanding the opportunity set, occasionally substituting investmentgrade corporates or CLOs for BBs, for instance, and equities (up to 10%) in place of CCCs. (Contrary to its US-domiciled sibling, this UCITS vehicle does not invest in loans). The team manages liquidity and tweaks the fund's market and industry exposures through a mix of high-yield exchange-traded funds, credit default swaps, and high-yield-focused total-return swaps. A risk committee regularly reviews the portfolio to see where it may be taking on too much risk in terms of market exposure, correlations, industry, and individual security exposure.

Style Surveyed 31/08/17



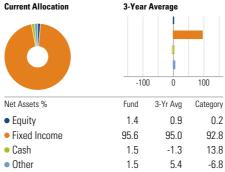
Style Box Factors

Credit Quality	Fund	3-Yr Avg	Category
Average Credit Quality	_	В	В
Investment Grade %	2.5	2.6	7.5
Below Invest Grade %	92.8	92.0	90.3
Interest Rate Sensitivity			
Avg Effective Duration	_	4.03	2.93
Avg Modified Duration	_	_	3.32
Avg Effective Maturity	_	_	4.79

Income 30/04/19

	Fund	3-Yr Avg	Category
Current Yield	_	_	5.5
12-Month Yield	0.0	_	_
Average Coupon	6.4	6.4	6.6
Average Coupon 30/04/19			

Asset Allocation 30/04/19 **Current Allocation**

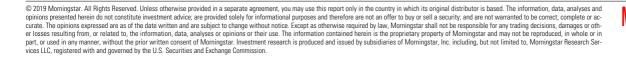


Regional Exposure 30/04/19

Top 5 Countries Bonds %	Fund	3-Yr Avg	Category
United States	76.7	80.0	79.7
Canada	8.0	6.1	5.0
Netherlands	3.7	3.0	2.7
United Kingdom	1.7	2.4	1.7
Cayman Islands	1.1	1.1	0.0

Sectors 30/04/19 **Fixed Income Super Sectors** Assets % ■ Fund — Category 100 70 40

- ²⁰ ₩ ②	<u> </u>	Ę.	Other
Fixed Income Sectors	Fund	3-Yr Avg	Category
₩ Government	0.0	_	-2.0
⊙ Corporate	93.2	_	94.2
Corporate Bond	91.9	_	93.6
Bank Loan	0.0	_	0.2
Convertible	0.5	_	0.3
Preferred	0.9	_	0.1
⚠ Securitized	3.8	_	0.2
Agency Mortgage- Backed	0.0	_	0.0
Non Agency Residentia	0.0	_	0.0
Commercial MBS	0.0	_	0.0
Asset-Backed	3.8	_	0.1
Covered Bond	0.0	_	0.0
₩ Municipal	0.0	_	0.0
Cash & Equivalents	1.5	_	4.3
Other	0.0	_	10.1





Morningstar Analyst Rating Bronze

16 Oct 2018 00:00, UTC-0500

LU0552552704

Process: Portfolio

Morningstar Category USD High Yield Bond **Category Index** BBgBarc US Corporate High Yield TR USD

Still overweighting CCCs but preparing for the later stages of the credit cycle.

Process Pillar

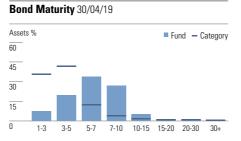
Positive

16 Oct, 2018 | While the managers still viewed the high-yield market as attractive in 2018 and weren't anticipating a downturn, they were focused on earning income and mitigating downside risk. They kept 88% of the fund's assets in high-yield cash bonds (as of September 2018) but saw more value in off-benchmark securitised fare

(6.3%) such as CLOs than in short-duration highyield assets or in higher-quality, low-coupon highyield bonds. The fund thus retained an underweighting in BB rated (27.5% of assets compared with 42.7% in Bloomberg Barclays US HY 2% Issuer Capped benchmark) and, to a lesser extent, B rated bonds (39.6% compared with 41.8%). Conversely, it was more heavily tilted to CCC rated bonds (20.5% of assets compared with 14.4% for the benchmark), though this sleeve consisted mostly of lower-yielding CCC+ bonds that the team considered candidates for an upgrade, as shown by the portfolio's underweighting to coupons of 9% or higher. Significant issuer-level overweights included Platform Specialty Products in the chemicals sector, gaming company The Stars Group, and Cheniere Energy. Otherwise, the fund's profile has been fairly stable. Its 2% cash position is only marginally higher than its historical average, and the fund's net exposure to equity and equity futures has increased to 3% at the end of September 2018 (of which 1% in common equity) from roughly 1% a year ago.

Credit Quality Surveyed 31/08/17





Co	Coupon Range 30/04/19						
Asse	ts %					Fund -	Category
60							,
40							
20							
0		_					
-20	0% to PIK	0-2	2-4	4-6	6-8	8-10	10+

Credit Quality	Fund	3-Yr Avg	Category
AAA	1.9	0.3	1.5
AA	0.0	0.0	0.0
A	0.0	0.0	0.3
BBB	0.6	1.6	5.7
BB	33.1	30.9	41.4
В	39.4	41.5	37.2
Below B	20.2	18.2	11.8
Not Rated	47	7.4	2 1

Maturity (Years)	Fund	3-Yr Avg	Category
1 to 3	7.3	_	35.0
3 to 5	19.6	_	41.1
5 to 7	33.8	_	11.7
7 to 10	27.0	_	3.3
10 to 15	5.1	_	1.2
15 to 20	1.2	_	0.3
20 to 30	1.3	_	0.5
Over 30	0.6	_	0.2

Coupon Range	Fund	3-Yr Avg	Category
0% or Paid In Kind	0.1	_	-2.2
O to 2	0.8	_	0.4
2 to 4	3.0	_	1.4
4 to 6	45.0	_	50.5
6 to 8	32.8	_	28.0
3 to 10	11.7	_	12.7
More than 10	2.7	_	2.2

Portfolio Holdings 31/01/19

Bond Holdings	Equity Holdings	Other H	oldings		Assets in Top 10 Ho	ldings Turnover Ratio	(Reported) Current Yield
971	9	71			17%	_	_
Top 10 Holdings		Country	Currency	Assets %	Super Sector	Primary Sector	Secondary Sector
2 Year US Treasury No	te Future Mar19	USA	_	7.41	Government Government	Government Related	Treasury Future
Trswap: Iboxhy Index		USA	_	1.94	_		
TransDigm, Inc. 6.25%		USA	USD	1.68	Corporate	Corporate Bond	Unspecified
Blackstone CQP Holdco	6.5%	USA	USD	1.20	Corporate	Corporate Bond	Financial Services
Infor (US), Inc. 6.5%		USA	USD	1.01	Corporate	Corporate Bond	Technology
Ally Financial Inc. 8%		USA	USD	0.84	Corporate	Corporate Bond	Financial Services
Solera, LLC / Solera Fir	nance, Inc. 10.5%	USA	USD	0.83	Corporate	Corporate Bond	Technology
Clear Channel Worldw	ide Holdings Inc. 6.5%	USA	USD	0.73	Corporate	Corporate Bond	Consumer Cyclical
CNX Resources Corpor	ation 5.88%	USA	USD	0.69	Corporate	Corporate Bond	Basic Materials
AVANTOR INC 6%		USA	USD	0.66	Corporate	Corporate Bond	Unspecified

Morningstar Analyst Rating Bronze

16 Oct 2018 00:00, UTC-0500

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Performance

Morningstar Category USD High Yield Bond Category Index BBgBarc US Corporate High Yield TR USD

A strong performance record.

Performance Pillar

Positive

16 Oct, 2018 | Some high-yield funds stick with a preferred spot on the credit-quality spectrum, which can work for or against them when risktaking is punished or rewarded. This team aims to be more flexible, though. For instance, a heavier allocation to CCCs buoyed this fund's US-sibling ahead of 95% of competitors in 2010's risk-on environment, while a defensive shift out of energy names helped the fund hold up better than most in 2014. At other times, the team's decision to foray beyond high-yield bonds into investmentgrade corporates on the cautious end and equities on the more daring side has proved rewarding, as it did in 2013 and 2017. For the year to date through September 2018, a tactical net long equity position (mostly preferred equities) helped the fund outperform more than 80% of its rivals. The team hasn't always timed these calls perfectly. In 2015, for instance, the fund's allocation to equities in place of CCC bonds held it back somewhat, while a cautious stance toward risk has kept the fund near the middle of the pack in 2016. Over time, though, the team has used the fund's flexibility to its advantage more often than not. The fund's since-inception 6% annualized return, under Jimmy Keenan's watch, through September 2018 largely outpaced its category average (4.4%) without more volatility, supporting a Positive Performance Pillar rating.

Morningstar Rating and Risk 30/04/19

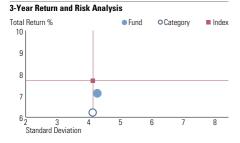
Period	Cat	Morningstar Risk vs Cat	Rating
3 Years	Above Avg	Avg	****
5 Years	Above Avg	Avg	****
10 Years	_	_	_
Overall Ra	iting		***

Risk Analysis 30/04/19

3-Year Risk Measures

Upside Capture Ratio

Downside Capture Ratio



Fund

96.1

106.9

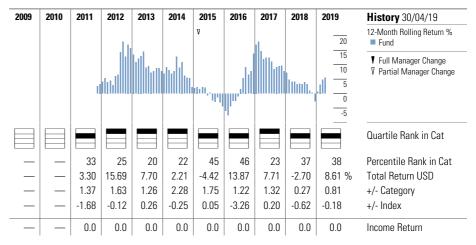
84.4

100.8

Category

Index

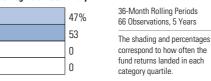
Upside/Downside	Fund	Category	Index
Max Drawdown (Months)	8	19	8
Valley Date	01/16	01/16	01/16
Peak Date	06/15	07/14	06/15
Max Drawdown (%)	-9.22	-12.40	-9.68
Maximum Drawdown	Fund	Category	Index
Alpha	-0.61	-1.07	_
Beta	1.01	0.92	_
R-Squared	96.02	89.76	_
Sharpe Ratio	1.30	1.16	1.48
Standard Deviation	4.27	4.12	4.13



Returns 30/04/19

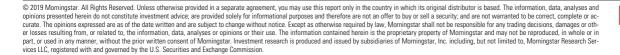
Trailing Returns	Total	Investor	Rank	Cat	Index
	Ret %	Ret %	in Cat	Ret %	Ret %
1 Year	5.45	3.71	48	4.98	6.74
3 Years	7.10	7.99	26	6.04	7.69
5 Years	4.15	4.13	19	3.12	4.84
10 Years	_	_	_	8.70	10.15
Tenure 06/07	5.92	_	_	4.77	7.02
Inception 11/10	5.92	_	_	4.47	6.52







Year	Income	Income %	Capital	Capital %
	Ret %	Rank in Cat	Ret %	Rank in Cat
2015	0.00	43	-4.42	31
2016	0.00	48	13.87	28
2017	0.00	51	7.71	16
2018	0.00	43	-2.70	23
04/19	0.00	40	8.61	25





Morningstar Analyst Rating Bronze

16 Oct 2018 00:00, UTC-0500

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People

Morningstar Category USD High Yield Bond **Category Index** BBgBarc US Corporate High Yield TR USD

Well-resourced.

People Pillar

Positive

16 Oct, 2018 | This fund benefits from an experienced portfolio management team and analyst breadth, earning a Positive People rating. Although their responsibilities have evolved through the years, the portfolio manager trio of Jimmy Keenan, David Delbos, and Mitch Garfin has worked together for more than a decade. After

comanaging this strategy alongside Jeff Gary for a year, Keenan took over as lead manager when Gary departed in early 2009. Shortly afterward, Keenan was joined by Garfin, who has worked at BlackRock for nearly two decades in various roles including credit research before becoming a portfolio manager in 2005. Delbos, who joined Black-Rock in 2002 as a credit analyst and started managing portfolios in 2012, became a named manager on the fund in 2015, following the departure of comanager Charlie McCarthy, who had a brief two-year stint on this fund. In 2014, Keenan took on the role of global head of credit for BlackRock's fundamental fixed-income team. Since then, Keenan's role here has shifted to setting top-down macro views that guide the fund's positioning, with the input of experts across the firm's investment platform, while Delbos and Garfin have handled the fund's day-to-day management. The team is supported chiefly by 14 credit analysts in the United States, split between experienced and more junior staff, a European team that has grown to 12, and seven dedicated quantitative analysts.

Management Team



Number of Managers	Longest Tenure	Manager Retention Rate	Average Manager Tenure
3	11.92 Years	5-Year	8.72 Years
		—%	

Advisor

Blackrock Financial Management, Inc

Subadvisor

BlackRock Investment Management, LLC BlackRock Investment Management (UK) Ltd. Blackrock Financial Management, Inc. BlackRock Institutional Trust Company NA BlackRock International Limited BlackRock (Singapore) Limited

James Keenan 06/07 to Present

Vears on Managed Funds

Years on Managed Funds

rouro on managou ranao	rouro on runu
14	11
Fund AUM	Current Funds Managed
29,044.59 Mil USD	24

Vears on Fund

Vears on Fund

Largest Funds Managed	Tenure Dates	Role	Fund Size	Investment	Tenure	Index
			Bil USD	Mil USD	Ret %	Ret %
BlackRock High Yield Bond Portfolio	12/07 to Present	1 of 4	16.72	>1	7.45	3.82
BlackRock Floating Rate Income Fund	07/10 to Present	1 of 6	3.25	>1	4.44	2.99
BGF US Dollar High Yield Bond Fund	06/07 to Present	1 of 3	2.20	_	5.24	7.02
BlackRock Corporate High Yield Fund	05/09 to Present	1 of 2	1.44	_	12.17	3.67
BGF Global High Yield Bond Fund	06/07 to Present	1 of 5	1.28	_	3.72	6.24

Mitchell S. Garfin 05/09 to Present

10	10
Fund AUM	Current Funds Managed
29,037.38 Mil USD	16

Largest Funds Managed	Tenure Dates	Role	Fund Size Bil USD	Investment Mil USD	Tenure Ret %	Index Ret %
BlackRock High Yield Bond Portfolio	05/09 to Present	1 of 4	16.72	<1	10.35	3.72
BlackRock Floating Rate Income Fund	08/18 to Present	1 of 6	3.25	None	2.14	4.02
BGF US Dollar High Yield Bond Fund	05/09 to Present	1 of 3	2.20	_	8.68	10.15
BlackRock Credit Allocation Income Trust	06/11 to Present	1 of 3	1.52	_	6.21	2.82
BlackRock Corporate High Yield Fund	05/09 to Present	1 of 2	1.44	_	12.17	3.67

David Delbos 02/15 to Present

Years on Managed Funds	Years on Fund
16	4
Fund AUM	Current Funds Managed

Largest Funds Managed	Tenure Dates	Role	Fund Size	Investment	Tenure	Index
			Bil USD	Mil USD	Ret %	Ret %
BlackRock High Yield Bond Portfolio	03/14 to Present	1 of 4	16.72	>1	4.71	2.76
BlackRock Floating Rate Income Fund	08/18 to Present	1 of 6	3.25	None	2.14	4.02
BGF US Dollar High Yield Bond Fund	02/15 to Present	1 of 3	2.20	_	4.09	5.58
BGF Global High Yield Bond Fund	02/15 to Present	1 of 5	1.28	_	2.63	4.15
BlackRock High Yield V.I. Fund	03/14 to Present	1 of 4	0.51	None	4.28	2.76



Morningstar Analyst Rating Bronze

16 Oct 2018 00:00, UTC-0500

LU0552552704

Parent

Morningstar Category USD High Yield Bond **Category Index** BBgBarc US Corporate High Yield TR USD

Acting in enlightened self-interest.

Parent Pillar



01 Nov, 2018 | BlackRock's successful balancing act retains a positive Parent rating.

The \$6.3 trillion colossus' institutional and retail clients span the globe, and its publicly traded shares have beaten virtually all industry peers and most fellow S&P 500 denizens since the company's 1999 IPO. Both its clients and public shareholders have high expectations, but BlackRock has shown it understands it must be a capable fiduciary to keep delivering enviable longterm stock returns. Its investment fees continue to fall and managers invest more in their strategies. The firm invests heavily in technology and people and makes versions of its institutional risk and portfolio analysis tools available to advisors. Its iShares unit's efforts to defend its leading exchange-traded fund market position has helped drive asset-management costs down. The firm has expanded into alternatives and private equity.

Biggest is not always best, though. Black-Rock has turned around its fixed-income platform since the global financial crisis, but its active equity lineup has sputtered and been through two major restructurings in six years. Its manager retention and tenure rates for U.S. mutual funds are lower than most other top 20 fund families. While it has shown more fund launch discipline, it has its share of niche vehicles, such as the iShares Robotics and Artificial Intelligence ETF.

Still, BlackRock has used its size and operational savvy to clients' benefit.

Fund Size

Mil USD

Inception

Assets By Region, By Domicile Bil USD



Fund Family Details Europe (*)



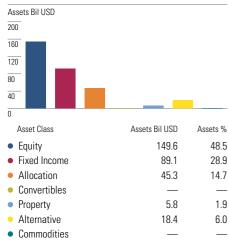




Assets %

. Date

Asset Class Breakdown Europe (ex Money Mkt)



Fund Family Details Europe

Recent Fund Launches

Top Performing Funds	Category Name	Fund Size Mil USD	Return % 3-Year	Rank in Cat 3-Year
Largest Funds	Category Name	Fund Size Mil USD	Return % 3-Year	Rank in Cat 3-Year

Category Name



Morningstar Analyst Rating Bronze

16 Oct 2018 00:00, UTC-0500

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Price **Morningstar Category** USD High Yield Bond

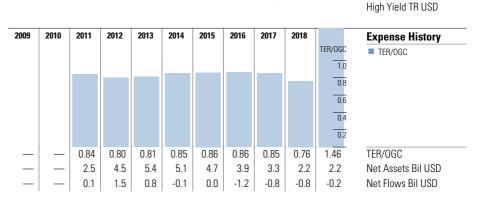
Category Index BBgBarc US Corporate

A recent fee cut brings the fund's fees in line with the competition.

Price Pillar

Neutral

16 Oct, 2018 | The fund's rebate-free share class D2 bears an annual ongoing charge of 0.77% as of March 2018, down from 0.85% charged in previous years. That's good news for investors, although it is not enough to make the fund's fees competitive just yet. It earns a Neutral Price Pillar rating.



Expense Breakdown

Ongoing charge

Ongoing charge 08/05/19

Selected Components

Max Management Fee Performance Fee

Fee Level

Fee Level Avg

1.46

0.65

Peer Group USD High Yield Bond

Retail Broad

Fee Level Breakpoints



>1.92 High Above Average 1.46-1.92 Average 1.28-1.46 Below Average 0.85-1.28 < 0.85 Low

1.46

1.39

■ Fund ✓ Peer Median

Share Class Information								
Share Class	Identifier	Morningstar Category	TER/OGC	Max Mgmt Fee	Performance Fee	Maximum Inital Charge	Minimum Initial Inv	Assets Bil USD
BGF US Dollar High Yield Bd D2 USD	LU0552552704	USD High Yield Bond	0.76	0.65	_	5.00	100,000	0.07
BGF US Dollar High Yield Bd A6 USD	LU0738912566	USD High Yield Bond	1.46	1.25	_	5.00	5,000	0.79
BGF US Dollar High Yield Bd A2 USD	LU0046676465	USD High Yield Bond	1.46	1.25	_	5.00	5,000	0.32
BGF US Dollar High Yield Bd I2 USE) LU0822668108	USD High Yield Bond	0.60	0.65	_	0.00	10,000,000	0.19
BGF US Dollar High Yield Bd X6 USD	LU1376384019	USD High Yield Bond	0.05	_	_	0.00	10,000,000	0.13
BGF US Dollar High Yield Bd A3 USD	LU0172419151	USD High Yield Bond	1.46	1.25	_	5.00	5,000	0.11

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The Five (5) Pillars

Morningstar has identified five key areas that we believe are crucial to predicting the future success of funds: People, Parent, Process, Performance, and Price, Each pillar is evaluated when assessing a fund as well as the interaction between the pillars, which we believe is crucial to understanding a fund's overall merit.

The overall quality of a fund's investment team is a significant key to its ability to deliver superior performance relative to its benchmark and/or peers. Evaluating a fund's investment team requires that analysts assess several relevant items including how key decisions are made.

Parent

We believe the parent organization is of utmost importance in evaluating funds. The fund's management set the tone for key elements of our evaluation, including capacity management, risk management, recruitment and retention of talent, and incentive pay. Beyond these operational areas, we prefer firms that have a culture of stewardship and put investors first to those that are too heavily weighted to salesmanship.

We look for funds with a performance objective and investment process (for both security selection and portfolio construction) that is sensible, clearly defined, and repeatable. In addition, the portfolio should be constructed in a manner that is consistent with the investment process and performance objective.

We do not believe past performance is necessarily predictive of future results, and this factor accordingly receives a relatively small weighting in our evaluation process. In particular, we strive not to anchor on short-term performance. However, we do believe that the evaluation of long-term return and risk patterns is vital to determining if a fund is

To reflect actual investor experience, price is evaluated within the context of the relevant market or cross-border region—for example, the United States, Australia, Canada, or Europe. In recognition of differences in scale and distribution costs in various markets, the level at which a fund is penalised for high fees or rewarded for low fees can vary with region. In Europe, for example, funds are penalised if they land in the most expensive quintile of their Morningstar category and are rewarded if they land in the cheapest quintile. The assessment is made using annual expense ratios, but in the case of funds with performance fees, expenses are evaluated excluding any performance fees and then the structure of the performance fee is evaluated separately.

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Gold

Represents funds that our analyst has the highest-conviction in for that given investment mandate. By giving a fund a Gold rating, we are expressing an expectation that it will outperform its relevant performance benchmark and/or peer group within the context of the level of risk taken over the long term (defined as a full market cycle or at least five years). To earn a Gold rating, a fund must distinguish itself across the five pillars that are the basis for our analysis.

Silver

Represents funds our analyst has high-conviction in, but not in all of the five pillars. With those fundamental strengths, we expect these funds will outperform their relevant performance benchmark and/or peer group within the context of the level of risk taken over the long term (defined as a full market cycle or at least five years).

Bronze

Represents funds that have advantages that clearly outweigh any disadvantages across the pillars, giving analyst the conviction to award them a positive rating. We expect these funds to beat their relevant performance benchmark and/or peer group within the context of the level of risk taken over a full market cycle (or at least five years).

Noutral

Represents funds in which our analysts don't have a strong positive or negative conviction. In our judgment, these funds are not likely to deliver standout returns, but they aren't likely to seriously underperform their relevant performance benchmark and/or peer group either.

Negative

Represents funds that possess at least one flaw that our analysts believe is likely to significantly hamper future performance, such as high fees or an unstable management team. Because of these faults, we believe these funds are inferior to most competitors and will likely underperform their relevant performance benchmark and/or peer group, within the context of the level of risk taken, over a full market cycle.

Morningstar may also use two other designations in place of a rating:

Under Review

This designation means that a change that occurred with the fund or at the fund company requires further review to determine the impact on the ratino.

Not Ratable

This designation is used only where we are providing a report on a new strategy or on a strategy where there are no relevant comparators, but where investors require information as to suitability.

For more information about our Analyst Rating methodology please go to http://corporate1.morningstar.com/ResearchLibrary/

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The Morningstar Star Rating is a proprietary data point that is quantitatively driven. Funds are rated from one to five stars based on how well the fund performed (after adjusting for risk and accounting for sales charges) in comparison to similar funds. Within each Morningstar Category, the top 10% of funds receive five-stars and the bottom 10% receives one-star. Funds are rated for up to three time periods—three-, five-, and ten-years—and these ratings are combined to produce an overall star rating, which is noted within the Report. Funds with less than three years of history are not rated. Morningstar Star Ratings are based entirely on a mathematical evaluation of past performance Morningstar Star Ratings are in no way to be considered a buy or sell signal nor should be viewed as a statement of fact.

Equity-Related Data Points

The Report lists the fund's top ten holdings as of the dated noted. For each underlying holding, a series of data points is provided including, where applicable, that security's Economic Moat as of the date noted.

Economic Moat

The concept of an economic moat plays a vital role in our equity analyst's qualitative assessment of a firm's long-term investment potential, but also in the actual calculation of its fair value estimate. An economic moat is a structural feature that allows a firm to sustain excess profits over a long period of time. We define economic profits as returns on invested capital (or ROIC) over and above our estimate of a firm's cost of capital, or weighted average cost of capital (or WACC). Without a moat, profits are more susceptible to competition. We have identified five sources of economic moats: intangible assets, switching costs, network effect, cost advantage, and efficient scale.

Companies with a <u>narrow moat</u> are those we believe are more likely than not to achieve normalized excess returns for at least the next 10 years. <u>Wide-moat</u> companies are those in which we have very high confidence that excess returns will remain for 10 years, with excess returns more likely than not to remain for at least 20 years. The longer a firm generates economic profits, the higher its intrinsic value. We believe low-quality, <u>no-moat</u> companies will see their normalized returns gravitate toward the firm's cost of capital more quickly than companies with moats.

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