Kentucky Retirement Systems Board of Trustees Special Called Board Meeting December 17, 2024 at 12:00 noon ET Live Video Conference/Facebook Live

AGENDA

1.	Call to Order	Lynn Hampton
2.	Legal Public Statement	Office of Legal Services
3.	Roll Call/Public Comment	Sherry Rankin
4.	Real Return Investment Recommendations*	Prewitt Lane Steve Willer Anthony Chiu
5.	Closed Session **	Lynn Hampton
6.	Adjourn*	Lynn Hampton

*Board Action Required **Board Action May Be Required



KRS Investment Committee Real Return Recommendation

December 17, 2024

Other Real Return Strategies Reviewed / In Consideration

- Transportation leasing: Recommending new railcar investment and addition to existing inland marine investment
- Sports: Currently in diligence
- Production-focused energy: Approved and funded continuation vehicle Oct 2024; additional calls and meetings held
- Energy credit / energy secondaries: Initial calls
- Mining credit: Continued evaluation
- Timberland: Continued evaluation
- Infrastructure: Continued evaluation
- Dedicated Commodities: Ongoing









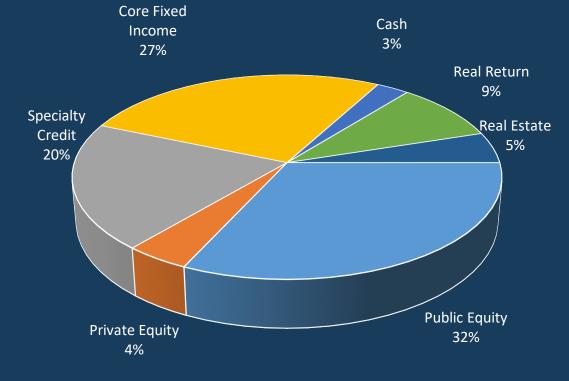




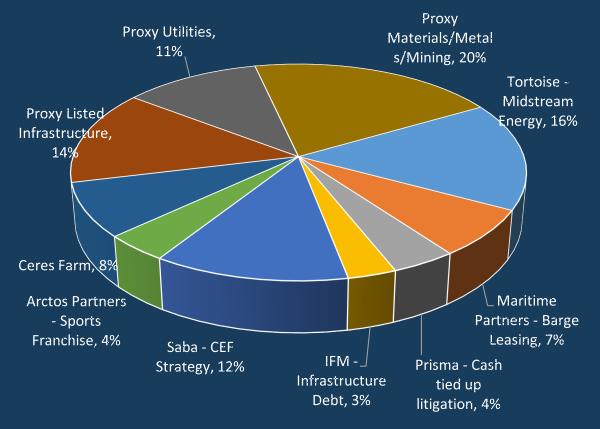


Real Return Allocation Today

Current Asset Allocation*



Current Real Return Allocation*



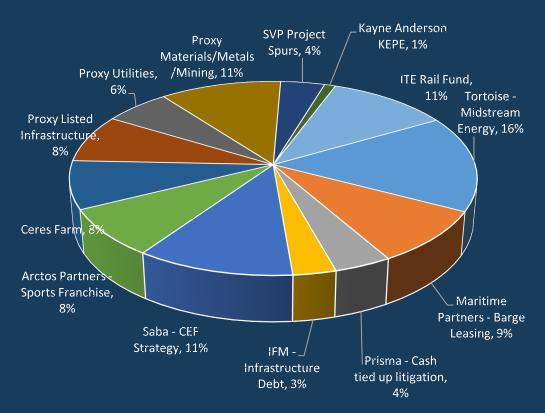


*KERS Pension Portfolio for representation

Impact and Rationale

- Unique investment opportunity in diversified, hard to replicate asset with defensive characteristics and downside protection create a resilient strategy
- Favorable expected risk-adjusted return from stable and growing cash flows that mitigate inflation
- Low return correlations to current Real Return investments and the broader overall public and private portfolio
- Strong alignment with the General Partner
- Dominant position within the industry provides favorable economies of scale with wholly owned repair and maintenance network platform providing data advantage that benefits portfolio management and underwriting
- Will get the KERS and SPRS Portfolios 1.0 1.1% closer to Real Return target weights within short funding window and allow winddown of proxy positions

Fully Called Real Return Allocation







KENTUCKY PUBLIC PENSIONS AUTHORITY



INVESTMENTS

To:KRS Investment CommitteeFrom:Anthony Chiu, Deputy CIODate:December 17, 2024Subject:Investment Recommendation – ITE Rail Fund

KPPA Investment Staff is proposing an investment in the ITE Rail Fund, L.P. (the "Rail Fund" or "Fund"), an open-end fund managed by Industrial Transportation Equipment ("ITE" or the "Firm"). Based in New York with offices in Chicago and St. Louis, ITE primarily leases railcars for the transportation of over 500 dry and liquid cargoes such as food, fuel, cars, sand, metals, and chemicals.

The Firm launched in 2014 and as of 9/30/24 owns ~122,000 railcars with an estimated value of \$9.3 billion. ITE has grown its fleet by building vessels, buying through the secondary market from banks and non-bank lessors, as well as acquiring other lessors.

Business / People:

ITE was co-founded in 2014 by Jason Koenig and David Smilow with Jim Unger as the Senior Rail Operating Partner. Unger co-founded American Railcar Industries and served as its CEO from 1995 to 2009 and brought ITE access to key rail industry talent and relationships in a relatively small industry where those are essential. This is similar to other real asset areas we have evaluated in recent years (such as farmland and inland marine transportation) where deal sizes are smaller and exposure often must be aggregated gradually.

Like other lessor and asset manager entrants, ITE started by sourcing railcars from manufacturers and fleet owners that needed cash and/or balance sheet relief. However, ITE has differentiated itself through industry relationships and operational capabilities that distinguish it from competitors that are more reliant on larger players like Greenbrier or Trinity for both railcars and their servicing.

A key inflection point for ITE occurred in late 2018 when the Fund acquired American Rail Industries (ARI) from activist investor Carl Icahn. ITE was a logical buyer given Unger's experience building and leading ARI, and the deal more than doubled ITE's fleet to 27,000 railcars and included nine repair facilities across the US.

ARI's railcar leasing and repair was rebranded to American Industrial Transport (AITX), which is the affiliate of ITE that directly interfaces with lessee clients like BNSF Railway, Exxon, or Cargill. These additions gave the Rail Fund a national presence and a way to reduce maintenance and repair costs for its assets.



Subsequently, two other major acquisitions have provided step function growth for the Rail Fund's portfolio: (1) the acquisition of the Andersons, Inc. (Nasdaq: ANDE) railcar leasing business in August 2021, which added nearly 20,000 railcars and (2) the November 2023 acquisition of Sumitomo Mitsui's rail services group, which included a fleet of over 50,000 railcars as well as an experienced team and longtime customer relationships.



Investment Process and Portfolio:

ITE leases its fleet of railcars to a diverse set of over 1,000 lessees that transport more than 500 different commodities. Covered hoppers (49% of the Fund's ~122,000 vessels) and tank cars (36%) comprise the vast majority of the Rail Fund's fleet.

The Fund's leases are multi-year take-or-pay contracts that are typically only modified in bankruptcy. Like any leasing business, non-payment of rent is a primary risk, and the Fund mitigates that by diversifying across counterparties, commodities, asset age, and lease term expiration.

Unlike our inland marine investment, the Rail Fund has very little customer concentration. As of 9/30/24, the Fund's top 10 lessees are renting just 12% of the fleet by value, with the top 2 lessees comprising 2.2% and 1.5% of the total fleet, respectively.

Additionally, almost half of the on-lease fleet is contracted with investment grade companies, and over 85% of the fleet's lessees are rated. Write-offs as a percentage of annual revenues have typically been well below 1%, except for 2019 and 2020 when they rose to 1.7-1.8% due to energy industry weakness and the fund's exposure to frac sand transportation.

ITE believes it has learned from its frac sand experience, with "virtually all" of the Fund's bankrupt lessees to date coming from that sector. As a result, ITE has significantly diversified the Fund by commodity and selectively tilted away from ones they view as less economically favorable, like coal or frac sand. As of 9/30/24, the Fund's top commodity carried by value is grain, which comprises less than 5% of the Fund. The Top 10 commodities by value represent less than 25% of fund exposure.

Fleet age is actively managed as well, with approximately half the fleet under 10 years old. Railcars can typically return their cost basis through income in 8-12 years on an unlevered basis, or within 4-7 years if levered. Ideally, ITE would like to receive its cost back before the first lease renewal. Since railcars can have a useful life of up to 50 years, additional leasing cash flows can be significant, although the lease rate is likely to decline with asset age.

Finally, the Fund has staggered lease expirations with a goal of around 15-20% of leases rolling off in any given year. With this setup, ~80-85% of the Fund's cash flows are known on January 1 each year, while re-setting leases can provide some upside. For example, publicly traded GATX reports a Lease Price Index (LPI) that measures the percentage change between the average renewal lease rate and the average expiring lease rate for its North American railcar fleet. For the first three quarters of 2024, the LPI has been +33%, +29%, and +27%, respectively, indicating that lease rates likely still have room to rise for the next several quarters.

Given this consistent cash flow, the Rail Fund's strategy is one that can bear some leverage. The Fund targets 2:1 leverage (67% LTV) and has generally been between 60-65% since inception, which they believe is less than industry peers who are at 70-90% LTVs.

Performance:

Fund	1 yr	3 yr	5 yr	Since Inception	Inception Date
ITE Rail Fund	11.0%	10.6%	10.1%	10.7%	Oct-14

Source: ITE as of 9/30/24

Over the long term we are interested in accessing two main sources of return: (1) mid-single digit annual income from asset leasing and (2) modest appreciation as lease rates and vessel replacement costs increase with inflation.

Conclusion: Given the attractive risk/reward profile, compelling market opportunity, and current Real Return allocations, Staff is recommending an investment of \$100 million to be shared among all KERS and SPRS portfolios pending successful legal negotiations. When fully funded, this would represent an additional $\sim 1.0 - 1.1\%$ of Plan assets (depending on fluctuations in market value). It is anticipated this investment would be funded by the unwinding of proxy positions and existing cash based on the specific needs of each portfolio.

Investment and Terms Summary

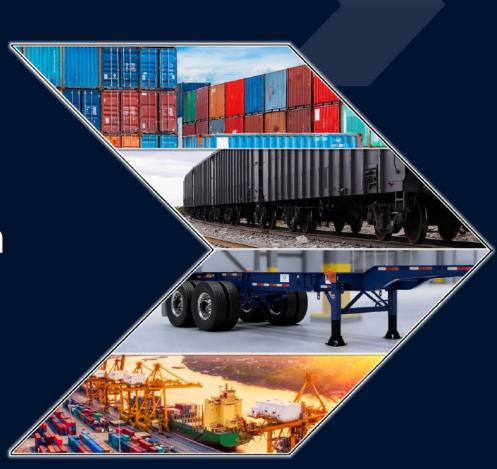
Type of Investment:	Real Return
Structure:	Open end
Management Fee:	of net asset value
Performance Fee:	of profits above
Purpose:	Capture current income and inflation exposure from railcar lease payments
Risks:	Key Person, Leverage, Liquidity
Exp. Net Return:	6 - 9%

*No placement agents have been involved or will be compensated as a result of this recommendation.



Investor Presentation

ITE Rail Fund L.P.



As of September 30, 2024

Disclaimer

This document is not an offer to sell or the solicitation of an offer to purchase an interest in any fund managed by ITE Management L.P. or any of its affiliates (collectively, "ITE"). Any such offer or solicitation will only be made by means of a Private Placement Memorandum furnished by ITE and only in those jurisdictions where permitted by law.

Hypothetical returns are not indicative of future results and are based upon certain models, assumptions, historical data and assessments made by ITE and third-party research that, in each case, ITE considers reasonable under the circumstances as of the date hereof. It is necessarily speculative, hypothetical, and inherently uncertain in nature, and it can be expected that some or all of the models, assumptions, historical data and assessments underlying the hypothetical returns contained herein will not materialize and/or that actual events and consequences thereof will vary materially. Among the assumptions made by ITE in calculating hypothetical returns are: (i) the initial lease period; (ii) the additional lease renewal utilization rate; (iii) the equipment cost and cash yield; (iv) the residual value of the underlying asset; (v) the approximate useful life and (vi) certain macroeconomic conditions such as interest rate levels. Inclusion of target net returns herein should not be regarded as a representation or guarantee regarding the reliability, accuracy or completeness of such information, and neither ITE nor any fund is under any obligation to revise such returns after the date provided to reflect the occurrence of future events. Risk information and models will promptly be made available upon request.

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Various statements in this document, including those that express belief, expectation or intention, as well as those that are not historical fact, are forward-looking statements. These forward-looking statements may include projections and estimates concerning the timing and success of strategies, plans or intentions. Such statements are based on ITE's current expectations and assumptions about future events. These assumptions include, among others, ITE's projections and expectations regarding market trends and ITE's ability to create an opportunity with attractive current yields and upside. Such expectations and assumptions are inherently subject to significant business, economic, competitive, regulatory and other risks and uncertainties, most of which are difficult to predict and many of which are beyond ITE's control and could cause actual results to differ materially from any future results, performance or achievements expressed or implied by these forward-looking statements. ITE undertakes no obligation to update any forward-looking statements to conform to actual results or changes in expectations, unless required by applicable law.

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ITE: Industrial Transportation Equipment



ITE OVERVIEW

EXPERT OWNER & OPERATOR

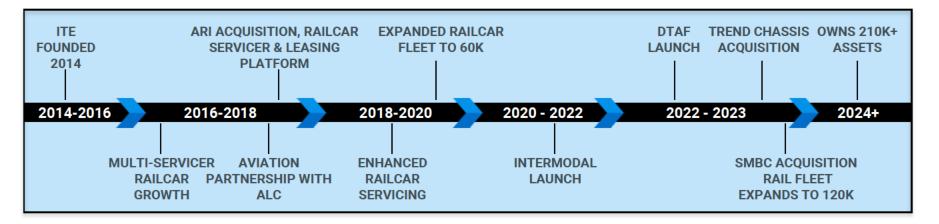
- Leading owner and operator of real assets focused on industrial transportation leasing
- Manage over \$10B¹ in hard asset value with a dedicated 60+ person team
- Unique combination of operating focus, portfolio management and proprietary data-centric approach to maximize investor value
- Independent firm aligned with investors and employees with a commitment to deep investor partnerships and strong firm culture
- 10-yr track record of stability and steady growth, including Covid period

RAIL OVERVIEW

HIGH-PERFORMING, RAILCAR FLEET

- Productive fleet of ~122K freight railcars valued at \$9.3B
- Longstanding operational roots and relationships with railcar manufacturers, regional operators and over 1,000 lessees
- Operates American Industrial Transport's (AITX) railcar maintenance and servicing network
- Diversified portfolio of railcars across type, commodity, age, lessee, partner, and lease expiration

DEDICATED TRANSPORTATION PLATFORM, BUILT OVER 10-YEARS



Railcar assets are critical, cash generating, and stable, hard assets with long durations.

STABLE CASH FLOW	 High utilization rates throughout cycles; generally stable lease rates; economically critical to industrial shippers 	NORTH AMERICAN FLEET RAILCAR SIZE			
DOWNSIDE PROTECTION	 Critical asset of the North American economy with long useful life; residual value; historically, negligible credit losses 	1.5М			
TAX EFFICIENT	 Tax regulation allows for accelerated depreciation; deferred taxes; potential for pass through tax benefits 	1.0М			
MACRO DRIVERS	 Correlation to GDP and population growth; inflation protection; low correlation to public and private markets 	0.5M			
ESG FRIENDLY	 Rail is an energy efficient mode of transport - 75% lower greenhouse emissions than trucks; 4x more fuel efficient than trucks; 1 train carries the freight of several hundred trucks 	0.0M 2000 2010 2020 Box Cars © Covered Hoppers © Flat Cars © Gondolas © Hopper Cars © Tank Cars			

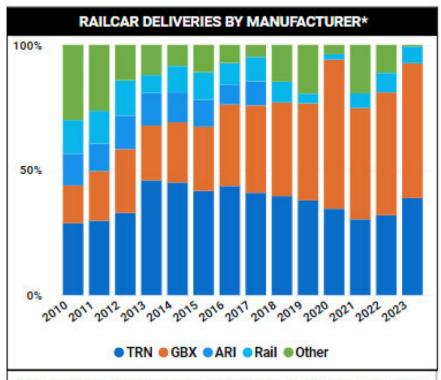
Source: Association of American Railroads, 2021. While ITE believes ESG factors can enhance long term value, ITE does not pursue an ESG based investment strategy nor does ITE consider itself a manager focused on ESG issues or an impact fund sponsor and does not market itself or its funds based on environmental or social standards. Any references to the environmental, social or governance represent standards or improvements made within a portfolio investment and are not provided as an indication of ITE's environmental stewardship. ITE chooses investment projects based on an investment objective which seeks to generate superior risk adjusted returns and does not pursue an ESG based strategy or limit its investments to those that meet specific ESG criteria.

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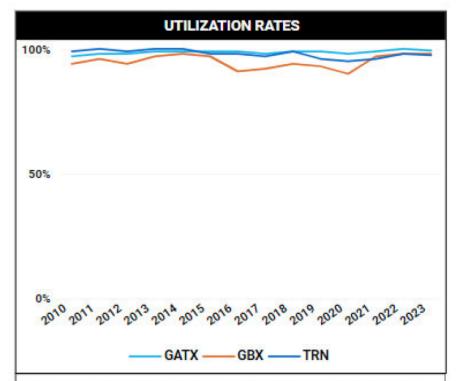
Railcar Leasing: Industry Supply and Demand



The North American railcar fleet has been quite stable historically due to the balanced supply and demand characteristics of the industry.



Historically, five manufacturers have manufactured the railcars delivered in the US. With GBX's acquisition of AITX in 2019, four manufacturers now dominate the market adding even more discipline to the introduction of permanent supply. Moreover, manufacturers build mainly against firm orders (like the aircraft space), and not to meet speculative demand, reducing the risk of overcapacity.



Demand for leased railcars has been historically stable (see on-lease percentages of major railcar fleets above) due to the critical nature of railcars to North American industry and because the supply of railcars is relatively balanced and typically comes down in recessionary periods (as highlighted on pg. 7). Therefore, lessees would prefer to keep cars on-lease (even if they are stored) vs. risk not having access to the cars. Moreover, lessees are responsible for lease payments on all cars under lease, even those stored.

Source: ITE Research. *TRN (Trinity Industries Inc), GBX (The Greenbrier Companies), ARI (American Railcar Industries) now AITX, RAIL (Freight ar America), UTLX (Union Tank Car), and NSC (National Steel Car). Charts left to right, Chart 1: ITE, FTR, and company filings; Chart 2: ITE and company filings.



Major industry players include owners/operators, railcar manufacturers, railroads & end users.

Over the past 10+ years, railcar ownership has continued to shift in favor of lessors as railroads and shippers prefer the financial flexibility to use their balance sheet elsewhere creating an active market for new and existing railcar purchases.

RAIL INDUSTRY PLAYERS			LESSOR	CARS	%	COMMENTS
		1	Lessor 1	135,000	8%	Bank-owned operating lessor with railcar and locomotive fleet.
7 Class I & 660 Shortline Railroads		2	Lessor 2	123,000	8%	Bank-owned operating lessor with railcar and locomotive fleet.
	-	3	ITE Management	121,572	8%	Independent owner of diversified railcar fleet with nationwide servicing capabilities.
5 National Manufacturers		4	Lessor 4	120,000	8 %	Railcar manufacturer with tank car lease fleet and nationwide servicing capabilities.
		5	Lessor 5	110,000	7%	Global diversified leasing company with sizable railcar leasing.
Over 150 Railcar Owner/Operators		6	Lessor 6	109,000	7%	Railcar manufacturer with lease fleet and nationwide servicing capabilities.
		7	Lessor 7	40,000	3%	Railcar operating lessor with nationwide servicing capabilities.
+2,000 Lessees/ Shippers		8	Lessor 8	20,000	1%	Railcar operating lessor with nationwide servicing capabilities.

ITE: Investment Model



We combine our depth as transportation operators with sophisticated portfolio and risk management using data-driven decisions to build a cycle-agnostic portfolio targeting stable, mid-teens, cash-yielding returns.



- PORTFOLIO MANAGEMENT
- Emphasis on deep operational expertise
- Operating partners and partnerships provide industry knowledge and sourcing relationships
- Active portfolio management across assets
- Focus on reducing volatility and managing risk and cash flow
- Proprietary data aggregation and synthesis

DATA &

ANALYTICS

 Drives decision across exposure mitigation, valuations, and other strategic evaluation criteria



LONG-TERM DURABILITY

OPERATING DIVERSIFICATION

multiple servicing and sourcing partners

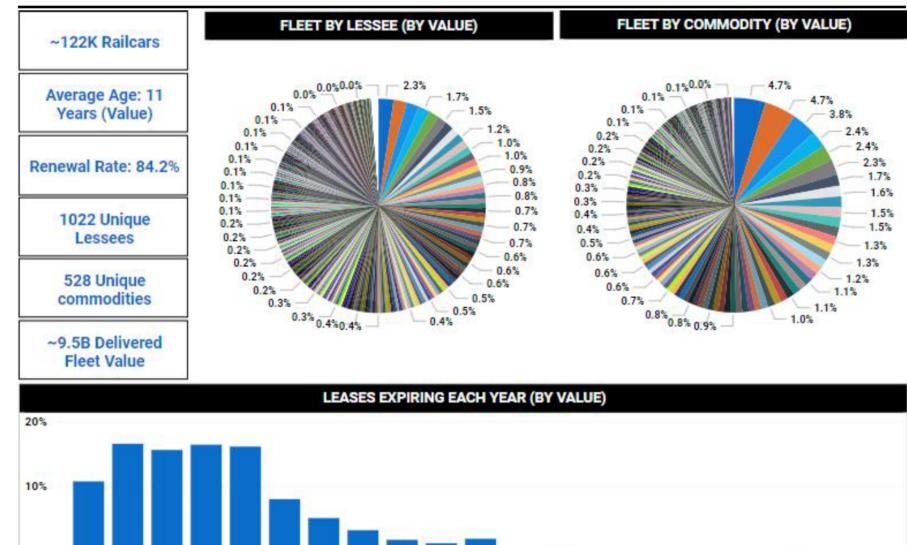
ASSET DIVERSIFICATION

assets, types, age, commodities, lessee, term, credit, and more

CASH FLOW DIVERSIFICATION

long-term contracts and staggered leases

ITE Rail: Diversification



2024 2025 2026 2027 2028

2029

2030

2031

2032

0%

2034

2035

2036 2037 2038 2039 2040

2041

2042 2043 2044

2033

ITE>

Portfolio Construction



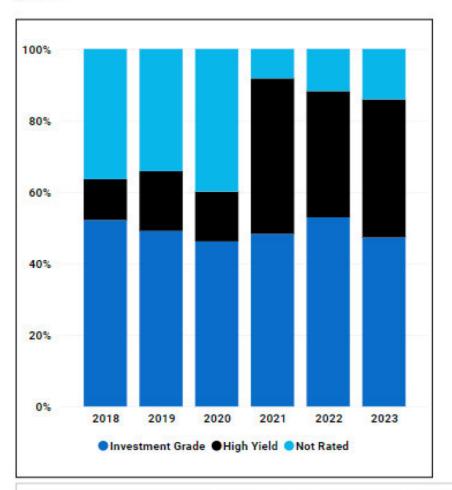
ITE Rail constructs a diversified portfolio of railcars across five main characteristics to mitigate volatility and risks. Rail Fund has purchased ~122K freight railcars totaling ~9.5B in asset value since its initial closing in September 2014.

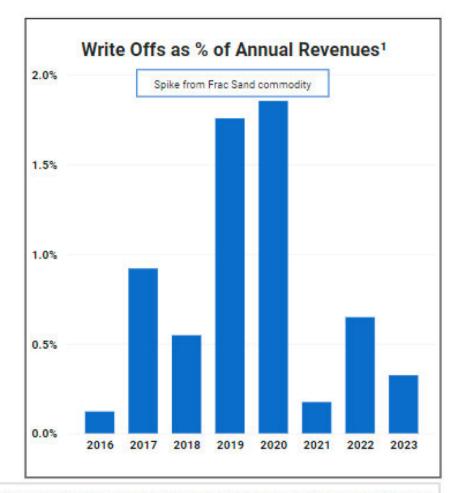
ТҮРЕ	Differentiated cars including tank cars, gondolas, hoppers, and autoracks with little to no exposure to box cars and intermodal.
COMMODITY	Diversified across 528 different commodities to mitigate industry-specific risks.
AGE	 Railcar ages range from - years old with a weighted average age of 11 years by value and 17 years by number.
LESSEE	 Concentration: Diversified customer base includes 1022 lessees over 3.3K leases. Credit Quality: 47.3%¹ of the on-lease fleet is investment grade.
LEASE EXPIRATION	 Staggered lease expiration with less than 17.2% by value rolling off in any given year. Average remaining lease term is 3.1 years.

Fleet Characteristics: Credit Quality



As of Q4 2023, approximately 85.9% of the fleet's lessees have a rating and 47.3% of the fleet's lessees are investment grade.





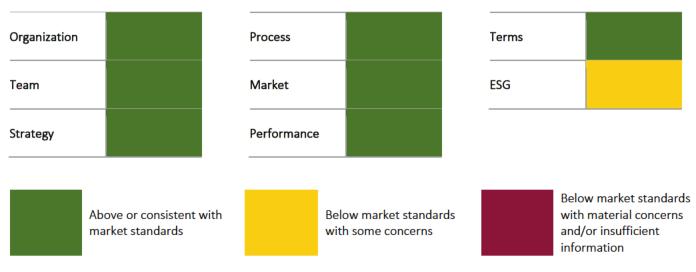
Source: ITE research. 1 As of 12/31/2023. Prior to Q2 2021, in instances where a lessee did not have a public credit rating itself but was owned by a parent with a public, investment grade, corporate family rating, ITE ascribed the parent's rating to the unrated, subsidiary lessee. Beginning in Q2 2021, ITE implemented Standard and Poor's Oredit Analytics rating model to assign ratings to all lessees that do not have public credit ratings, including the aforementioned unrated subsidiaries. As a result, certain lessees that had previously been recognized as investment grade through their respective parents are now assigned model-generated investment grade credit ratings.

Wilshire

INVESTMENT REVIEW

Background

Wilshire has been requested to review ITE Rail Fund (the "Fund") and provide a written analysis outlining the merits and concerns of the investment opportunity along with verification that such investment is deemed prudent and consistent with market standards. Wilshire is providing a description of the Fund which relies on information provided by the investment manager and includes: i) a summary of the investment opportunity and ii) Wilshire's view of the investment merits and concerns for the Fund. Wilshire's view is based on a preliminary assessment of the Fund's organization, team, strategy, process, performance, terms, and market in which it is investing. Wilshire notes that the current view is limited with respect to the amount of due diligence that was performed on the Fund.



At-A-Glance

Confirmation

Wilshire's review confirms that an investment in ITE Rail Fund is considered prudent, of institutional quality, and generally consistent with market standards.

Investment Summary

Firm Overview

Founded in 2014, Industrial Transportation Equipment Management ("ITE" or the "Firm") is an alternative investment firm focused on investing in real assets in the transportation industry. The Firm has specialization in Rail, Intermodal Containers, and Aviation and is led today by two co-founders, David Smilow and Jason Koenig. ITE employs 55 professionals across investment and asset management, asset operations, and back-office operations including ITE Labs (an in-house data-driven technology platform). ITE's team is augmented by operating platforms the Firm has acquired, adding hundreds of employees and a nationwide maintenance and repair network. The Firm has offices in New York, Chicago, and St Louis.

Investment Strategy

ITE Rail Fund (or the "Fund") will manage a portfolio of freight rail cars and related assets. ITE will primarily purchase rail cars that are on-lease and will seek to build a portfolio that is diversified by car type, commodity carried, lessee, length and expiration of leases, and age of car. Broad diversification allows the Fund to mitigate volatility and risks. Currently, the portfolio is comprised of approximately 120,000 rail cars and diversified across over 526 different commodities, over 1,000 lessees, rail cars ranging from 1 to 50 years old with a weighted average age of 6 years by value, and with approximately 75% of the rated fleet as investment grade. The Fund seeks to generate stable and predictable cash flows through strong lease contracts that are take-or-pay, longdated, and priced at fixed rates throughout the term. To source opportunities, ITE uses its large network of partners including manufacturers, operating lessors, and servicers. The Fund also owns American Industrial Transport's ("AITX") rail car maintenance and servicing network with 15 maintenance facilities and over 540 employees, which is used to service existing assets by providing ongoing maintenance and repairs. The Fund targets 2:1 leverage on an asset-level and uses asset-backed loans and securitizations on a non-recourse basis through SPVs that contain portfolios of rail cars.

Key Investment Personnel

Name	Title	Experience		
David Smilow	Founder	Jefferson National Financial, TeleBanc, Goldman Sachs		
Jason Koenig	Founder	Hale Capital Partners, Avenue Capital, Versa Capital Partners		
Peter Appel	Head of Rail	Jefferson National Financial, TeleBanc		

Opportunity Summary

Investment Type	Primary
Currency / AUM (B)	USD / 2.9
Term	Open-ended
Inception Year	2014
Geographic Focus	North America
Strategy	Other Infrastructure
Industry	Industrials
Investment Size (M)	\$5 - \$100
Number of Investments	120,000+
Subscriptions	
Redemptions	
Notice	
Lockup Period	
Gate	
GP Commitment*	
Target Return	10% - 12% net IRR
Management Fee	on NAV
Carry / Hurdle	
*CB Commitment is to ITE Pail and	LITE Internet del Evende

*GP Commitment is to ITE Rail and ITE Intermodal Funds.

Track Record Summary

Since inception in 2014, the Firm has purchased over 120,000 rail cars totaling over \$8.9 billion in asset value. Today, the Firm is a top 10 owner of freight rail cars in North America. Currently, ITE manages over \$3.0 billion in investor commitments in the Fund. As of December 31, 2023, the Firm has achieved an unlevered gross cash yield of

Fund	Year	AUM (\$B)	ITD (%)	ITD ROI
ITE Rail	2014	2,877	10.7%	2.5x

Source: ITE Management as of December 31, 2023.

Investment Merits

- Organizational specialization & platform resources
- Portfolio construction & diversification quality
- Due diligence insight & monitoring

Investment Concerns

- Firm ownership distribution
- Modest use of leverage
- Underlying asset correlation/sensitivity to GDP