

Transport Tracker

Issue #1077, week ending June 14, 2023; We see FDX beat; Spot truck rates tick up

Estimate Change

Hoexter's Thought of the Week Look for FDX beat vs. Street

FedEx (FDX) is set to report F4Q23 results next Tuesday, June 20. We target F4Q23 EPS of \$4.98 (from \$4.89 prior), and above the Street's \$4.87, as we target full-year EPS of \$15.00, above the midpoint of management' F2023 EPS target range (\$14.60-\$15.20). We target total operating margin of 8.0% (from 5.3% in F3Q) as its moves to structurally cut costs to improve margins. FDX targets \$4 bil in cost savings by F25 through its DRIVE initiative (\$1.3 bil in Express, \$1.2 bil in Ground, \$1.5 bil in corporate overhead; see DRIVE Takeaways), aiming to achieve \$10 bil in operating income over the medium term (vs our F23e of \$5.3 bil). It sees another \$2 bil in savings in its Network 2.0 initiatives (F25-F27). Given the substantial upside to earnings embedded in its cost reduction targets, we expect investors to focus on execution of DRIVE (KPIs on parking planes, consolidating flights, truck linehaul to rail) as well as signs of a freight bottom. We reiterate our Buy on FDX shares and maintain our \$295 PO on 15.5x our F2024e EPS (from 16x) as it moves closer on its cost cut plan.

Express (47% of Revenues), we target \$10.1 bil in revenues and \$552 mil in operating income for an operating margin of 5.5%, down 270 bps year-year, yet up from 1.2% in F3Q23. We target Express volumes to decline 9% y-y in F4Q (vs -10% in F3Q) and revenue/package to decline 6.5% y-y (vs +3% in F3Q) given a lower mix of International Priority volumes and declining fuel surcharges. We expect falling volumes and yields to be offset by 30% flight reductions over Pacific (\$250 mil savings) and closure of excess hangar operations on the West Coast (LAX, \$60 mil savings).

Ground (37% of Revenues), we target \$8.0 bil in revenues and \$885 mil in operating income for an operating margin of 11.0%, up 100 bps year-year and up from 9.7% in F3Q. We expect Salaries to account for 18% of revenues, down 150 bps y-y as it moves to close excess capacity, to consolidate its Ground network. We also expect Purchased Transport to account for 43% of revenues, down 160 bps year-year as it works to insource more of its third-party miles and shift part of its over-the-road linehaul to rail (which it noted costs 36% less on average).

Freight (11% of Revenues), we target \$2.3 bil in revenues and \$477 mil in operating income, a 20.8% margin, down 100 bps year-year. We target tons/day to decline 26% yy (accelerating from F3Q's 19% decline), partly offset by +13% y-y in rev/hundredweight.

Spot truck rates begin ticking higher

Truckload Dry-van spot rates ex-fuel has jumped to \$1.42/mile from \$1.25 in mid-May, with truckstop.com noting (see <u>Takeaways note</u>) the market has returned to a normal balance (closing in on historical average operating cost of \$1.50-\$1.60/mile). The improvement in spot rates is due to sequentially higher import volumes (see <u>Port of Savannah Takeaways</u>) as well as accelerating capacity exits, as less efficient operators face increased solvency challenges given lower rates and inflationary pressures. Mr. Hutto of Truckstop.com noted that there have been 8,800 net carrier exits year-to-date (avg 3 trucks per carrier), up 60% from ~5,500 in April, enhancing the return to market balance (as the for-hire carrier population is still 18% above pre-pandemic levels).

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Refer to important disclosures on page 33 to 36. Analyst Certification on page 32. Price Objective Basis/Risk on page 32.

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Equity United States Transport/Infrastructure

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Key Data This Week:

- Week 23 Rail Carloads: Down 4.8% Y-Y vs Week 22: 2.8% Y-Y (18th consecutive downtick).
- Port of LA/LB has 1 ship in queue, down from 3 last week.
- Dry Van spot rates ex-fuel was \$1.42/mile vs \$1.40 last week, down -14% from \$1.64 on Dec 31, 2022. Spot rates with fuel were \$1.82 vs. \$1.80 last week, and down -20% from \$2.28 on Dec 31, 2022 (Truckstop.com).
- May Cass Freight Index: -5.6% Y-Y, +1.9% M-M vs April -2.4% Y-Y, -1.0% M-M (Fourth consecutive downtick)

Exhibit 1: Airfreight & Surface Transportation

Rails, Trucks, Airfreight, Other Transports Summary Valuation Table

Rating Rails:			Mkt			Price
raiis:	Company	Price 6/14/23	Cap. (\$ bil.)	P/E '23e EPS	1-Wk Perf	Perf YTD %
B-1-7			77.3			
	Canadian National Railway (CNI)	116.61		19.6x	0%	-2%
B-1-7	Canadian Pacific Kansas City (CP)	77.69	72.3	24.4x	-2%	4%
B-1-7	CSX Corp. (CSX)	33.09	67.3	17.0x	2%	7%
B-1-7	Norfolk Southern Corp. (NSC)	221.40	50.4	16.6x	1%	-10%
B-1-7	Union Pacific Corp. (UNP)	202.74	123.6	18.3x	1%	-2%
NR	Grupo México Trans (GMXT*MM)(3)	MXN 38.55	9.8		-3%	2%
In towns	Rail Avg (ex GMXT for P/E) odal / Container Lessors:			19.2x	0%	-1%
B-1-7	J.B. Hunt Transport Svcs (JBHT)	174.39	18.1	21.1x	-1%	0%
NR	Hub Group (HUBG)	79.25	2.6	12.4x	2%	0%
NR	Textainer (TGH)	39.53	1.7	8.1x	1%	27%
RSTR	Triton International (TRTN)	82.97	4.6	U. IX	0%	21%
IOIN	Intermodal Average	02.37	4.0	13.9x	1%	12%
	an-Truckload (LTL) Carriers:	00.15	2.1	11.0	20/	270/
C-3-7	ArcBest Corp. (ARCB)	89.15	2.1	11.9x	2%	27%
B-2-7	Old Dominion Freight Line (ODFL)	320.72	35.2	28.5x	1%	13%
B-2-9	Saia Inc. (SAIA)	313.35	8.3	24.7x	4%	49%
B-2-7	TFI International (TFII)	105.99	9.2		-3%	6%
C-2-9	XPO, Inc. (XPO)	51.36	6.0	21.4x	4%	54%
NR	Yellow Corp (YELL)	1.70	0.1		4%	-32%
	LTL Average			21.7x	2%	20%
Trucklo a B-1-7	ad (TL) Carriers: Knight-Swift Transportation (KNX)	56.00	9.0	16.5x	-3%	7%
B-1-7 B-1-7		27.01	4.8	13.2x	-3% -1%	15%
	Schneider National (SNDR)					
NR	US Xpress Enterprises (USX)	6.11	0.3		0%	238%
B-1-7	Werner Enterprises (WERN)	43.79	2.8	17.2x	-4%	9%
NR	Covenant Logistics (CVLG)	39.50	0.5	9.8x	-4%	14%
NR	Heartland Express (HTLD)	16.32	1.3	20.2x	-1%	6%
NR	Marten Transport (MRTN)	22.24	1.8	18.3x	0%	12%
NR	P.A.M. Transport (PTSI)	27.15	0.6	10.6x	-5%	5%
NR	Universal Logistics Holdings (ULH)	29.97	0.8		2%	-10%
	TL Average			15.1x	-2%	33%
	mous trucks	2.18	0.5		-3%	33%
C-3-9	TuSimple (TSP)					
NR	Embark Trucks (EMBK)	2.80	0.1		1%	-15%
NR	Aurora Innovation (AUR)	2.07	2.4		11%	71%
	Autonomous trucks Average ht Companies:				3%	30%
Airfroig						
		229.67	57.7	12.4x	2%	33%
B-1-7	FedEx Corp. (FDX)	229.67 174.88	57.7 150.2	12.4x 16.4x	2% 2%	33% 1%
B-1-7 B-2-7	FedEx Corp. (FDX) UPS (UPS)	174.88	150.2	16.4x	2%	1%
B-1-7 B-2-7	FedEx Corp. (FDX) UPS (UPS) Deutsche Post (DPSTF) (2)					
B-1-7 B-2-7 B-1-7	FedEx Corp. (FDX) UPS (UPS) Deutsche Post (DPSTF) (2) Airfreight Average Forwarders / Logistics:	174.88 € 43.65	150.2 58.7	16.4x 13.0x 13.9x	2% 3% 3%	1% 24% 19%
B-1-7 B-2-7 B-1-7	FedEx Corp. (FDX) UPS (UPS) Deutsche Post (DPSTF) (2) Airfreight Average	174.88	150.2	16.4x 13.0x	2% 3%	1% 24%
B-1-7 B-2-7 B-1-7	FedEx Corp. (FDX) UPS (UPS) Deutsche Post (DPSTF) (2) Airfreight Average Forwarders / Logistics:	174.88 € 43.65 94.61 21.81	150.2 58.7 11.0 2.6	16.4x 13.0x 13.9x 22.8x	2% 3% 3% 3% -4%	1% 24% 19% 3% 4%
B-1-7 B-2-7 B-1-7 Freight B-3-7	FedEx Corp. (FDX) UPS (UPS) Deutsche Post (DPSTF) (2) Aiffreight Average Forwarders / Logistics: C.H. Robinson Worldwide (CHRW)	174.88 € 43.65 94.61	150.2 58.7	16.4x 13.0x 13.9x 22.8x	2% 3% 3% 3%	1% 24% 19% 3%
B-1-7 B-2-7 B-1-7 Freight B-3-7 C-1-9	FedEx Corp. (FDX) UPS (UPS) Deutsche Post (DPSTF) (2) Airfreight Average Forwarders / Logistics: C.H. Robinson Worldwide (CHRW) RXO (RXO)	174.88 € 43.65 94.61 21.81	150.2 58.7 11.0 2.6	16.4x 13.0x 13.9x 22.8x	2% 3% 3% 3% -4%	1% 24% 19% 3% 4%
B-1-7 B-2-7 B-1-7 Freight B-3-7 C-1-9 NR NR	FedEx Corp. (FDX) UPS (UPS) Deutsche Post (DPSTF) (2) Airfreight Average Forwarders / Logistics: C.H. Robinson Worldwide (CHRW) RXO (RXO) Landstar System (LSTR) Expeditors International (EXPD)	174.88 € 43.65 94.61 21.81 186.33	150.2 58.7 11.0 2.6 6.7	16.4x 13.0x 13.9x 22.8x 22.4x	2% 3% 3% 3% -4% -1%	1% 24% 19% 3% 4% 14%
B-1-7 B-2-7 B-1-7 Freight B-3-7 C-1-9 NR NR NR B-3-8	FedEx Corp. (FDX) UPS (UPS) Deutsche Post (DPSTF) (2) Airfreight Average Forwarders / Logistics: C.H. Robinson Worldwide (CHRW) RXO (RXO) Landstar System (LSTR) Expeditors International (EXPD) Kuehne + Nagel Int1 (KHNGF) (2)	174.88 € 43.65 94.61 21.81 186.33 117.64 CHF 260.00	150.2 58.7 11.0 2.6 6.7 18.0 34.0	16.4x 13.0x 13.9x 22.8x 22.4x 21.7x 24.5x	2% 3% 3% 3% -4% -1% 1% 2%	1% 24% 19% 3% 4% 14% 13% 21%
B-1-7 B-2-7 B-1-7 Freight B-3-7 C-1-9 NR NR B-3-8 B-1-7	FedEx Corp. (FDX) UPS (UPS) Deutsche Post (DPSTF) (2) Aiffreight Average Forwarders / Logistics: C.H. Robinson Worldwide (CHRW) RXO (RXO) Landstar System (LSTR) Expeditors International (EXPD) Kuehne + Nagel Int1 (KHNGF) (2) DSV Panalpina A/S (DSV DC) (2)	174.88 € 43.65 94.61 21.81 186.33 117.64 CHF 260.00 DKK 1,355.0	150.2 58.7 11.0 2.6 6.7 18.0 34.0 43.6	16.4x 13.0x 13.9x 22.8x 22.4x 21.7x 24.5x 3.4x	2% 3% 3% 3% -4% -1% 1% 2% 0%	1% 24% 19% 3% 4% 14% 13% 21% 24%
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B-1-7 B-2-7 B-1-7 Freight B-3-7 C-1-9 NR NR B-3-8 B-1-7 NR	FedEx Corp. (FDX) UPS (UPS) Deutsche Post (DPSTF) (2) Airfreight Average Forwarders / Logistics: C.H. Robinson Worldwide (CHRW) RXO (RXO) Landstar System (LSTR) Expeditors International (EXPD) Kuehne + Nagel Int'l (KHNGF) (2) DSV Panalpina A/S (DSV DC) (2) Forward Air Corp. (FWRD) Ryder System, Inc. (R)	174.88 € 43.65 94.61 21.81 186.33 117.64 CHF 260.00 DKK 1,355.0 104.05 81.35	150.2 58.7 11.0 2.6 6.7 18.0 34.0 43.6 2.7 3.8	16.4x 13.0x 13.9x 22.8x 22.4x 21.7x 24.5x 3.4x 18.2x 6.9x	2% 3% 3% 3% -4% -1% 1% 2% 0% 0% -3%	1% 24% 19% 3% 4% 14% 13% 21% 24% -1% -3%
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B-1-7 B-2-7 B-1-7 Freight B-3-7 C-1-9 NR NR B-3-8 B-1-7 NR NR NR	FedEx Corp. (FDX) UPS (UPS) Deutsche Post (DPSTF) (2) Aifreight Average Forwarders / Logistics: C.H. Robinson Worldwide (CHRW) RXO (RXO) Landstar System (LSTR) Expeditors International (EXPD) Kuehne + Nagel Int1 (KHNGF) (2) DSV Panalpina A/S (DSV DC) (2) Forward Air Corp. (FWRD) Ryder System, Inc. (R) Air Transport Services Group (ATSG) Fortress Transportation (FTAI) World Fuel Services (INT)	174.88 € 43.65 94.61 21.81 186.33 117.64 CHF 260.00 DKK 1,355.0 104.05 81.35 18.86	11.0 2.6 6.7 18.0 34.0 43.6 2.7 3.8 1.3	16.4x 13.0x 13.9x 22.8x 22.4x 21.7x 24.5x 3.4x 18.2x 6.9x 11.6x 22.4x 11.2x	2% 3% 3% 3% -4% -1% 1% 2% 0% -3% 2% 6% -4%	1% 24% 19% 3% 4% 13% 21% 24% -1% -3% -27% 72% -12%
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B-1-7 B-2-7 B-1-7 Freight B-3-7 C-1-9 NR NR B-3-8 B-1-7 NR NR NR NR NR NR NR NR NR NR NR NR NR	FedEx Corp. (FDX) UPS (UPS) Deutsche Post (DPSTF) (2) Aifreight Average Forwarders / Logistics: C.H. Robinson Worldwide (CHRW) RXO (RXO) Landstar System (LSTR) Expeditors International (EXPD) Kuehne + Nagel Int1 (KHNGF) (2) DSV Panalpina A/S (DSV DC) (2) Forward Air Corp. (FWRD) Ryder System, Inc. (R) Air Transport Services Group (ATSG) Fortress Transportation (FTAI) World Fuel Services (INT) Freight Forwarder Avg. Augument: The Greenbrier Companies (GBX) Freightar America Inc. (RAIL) GATX Corporation (GATX)	174.88 € 43.65 94.61 21.81 186.33 117.64 CHF 260.00 DKK 1,355.0 104.05 81.35 18.86 29.48 24.09 30.74 2.72 125.43	150.2 58.7 11.0 2.6 6.7 18.0 34.0 43.6 2.7 3.8 1.3 2.9 1.5	16.4x 13.0x 13.9x 22.8x 	2% 3% 3% -4% -1% 1% 2% 0% 0% -3% 2% 6% -4% 0%	1% 24% 19% 3% 4% 14% 13% 21% 24% -1% -3% -27% 72% -12% 10% -8% -15% 18%
B-1-7 B-2-7 B-1-7 Freight B-3-7 C-1-9 NR NR B-3-8 B-1-7 NR NR NR NR B-1-7 Rail Equ C-3-7 NR NR	FedEx Corp. (FDX) UPS (UPS) Deutsche Post (DPSTF) (2) Airfreight Average Forwarders / Logistics: C.H. Robinson Worldwide (CHRW) RXO (RXO) Landstar System (LSTR) Expeditors International (EXPD) Kuehne + Nagel Int'l (KHNGF) (2) DSV Panalpina A/S (DSV DC) (2) Forward Air Corp. (FWRD) Ryder System, Inc. (R) Air Transport Services Group (ATSG) Fortress Transportation (FTAI) World Fuel Services (INT) Freight Forwarder Avg. sipment: The Greenbrier Companies (GBX) Freightcar America Inc (RAIL) GATX Corporation (GATX) Koppers Holdings Inc. (KOP)	174.88 € 43.65 94.61 21.81 186.33 117.64 CHF 260.00 DKK 1,355.0 104.05 81.35 18.86 29.48 24.09 30.74 2.72 125.43 33.79	11.0 2.6 6.7 18.0 34.0 43.6 2.7 3.8 1.3 2.9 1.5	16.4x 13.0x 13.9x 22.8x 22.4x 21.7x 24.5x 3.4x 18.2x 6.9x 11.6x 22.4x 11.2x 16.5x 12.8x 18.3x 7.7x	2% 3%6 3%6 -4%6 -1%6 19%6 0%6 -3%6 29%6 0%6 -44%6 0%6 -44%6 0%6 -1%6 1%6	1% 24% 1996 3% 4% 149% 139% 219% 249% -119% -279% -129% 100% -8% -15% 189% 20%
B-1-7 B-2-7 B-1-7 Freight B-3-7 C-1-9 NR NR B-3-8 B-1-7 NR NR NR NR NR NR NR NR NR NR NR NR NR	FedEx Corp. (FDX) UPS (UPS) Deutsche Post (DPSTF) (2) Airfreight Average Forwarders / Logistics: C.H. Robinson Worldwide (CHRW) RXO (RXO) Landstar System (LSTR) Expeditors International (EXPD) Kuehne + Nagel Int1 (KHNGF) (2) DSV Panalpina A/S (DSV DC) (2) Forward Air Corp. (FWRD) Ryder System, Inc. (R) Air Transport Services Group (ATSG) Fortress Transportation (FTAI) World Fuel Services (INT) Freight Forwarder Avg. ipment: The Greenbrier Companies (GBX) FreightCar America Inc. (RAIL) GATX Corporation (GATX) Koppers Holdings Inc. (KOP) Trinity Industries Inc. (TRN)	174.88 € 43.65 94.61 21.81 186.33 117.64 CHF 260.00 DKK 1,355.0 104.05 81.35 18.86 29.48 24.09 30.74 2.72 125.43 33.79 23.48	150.2 58.7 11.0 2.6 6.7 18.0 34.0 43.6 2.7 3.8 1.3 2.9 1.5	16.4x 13.0x 13.9x 22.8x 22.4x 21.7x 24.5x 3.4x 18.2x 16.5x 11.6x 22.4x 11.2x 16.5x 12.8x 18.3x 7.7x 15.5x	2% 3% 3% -4% -1% 1% 2% 6% -3% 29 696 -4% 0% 096	1% 24% 19% 3% 4% 13% 21% 24% -1% 72% -12% 10% -8% -15% 18% 20% -21%
B-1-7 B-2-7 B-1-7 Freight B-3-7 C-1-9 NR NR B-3-8 B-1-7 NR NR NR NR NR NR NR NR NR NR NR NR NR	FedEx Corp. (FDX) UPS (UPS) Deutsche Post (DPSTF) (2) Airfreight Average Forwarders / Logistics: C.H. Robinson Worldwide (CHRW) RXO (RXO) Landstar System (LSTR) Expeditors International (EXPD) Kuehne + Nagel Int1 (KHNGF) (2) DSV Panalpina A/S (DSV DC) (2) Forward Air Corp. (FWRD) Ryder System, Inc. (R) Air Transport Services Group (ATSG) Fortress Transportation (FTAI) World Fuel Services (INT) Freight Forwarder Avg. sipment: The Greenbrier Companies (GBX) Freightcar America Inc. (RAIL) GATX Corporation (GATX) Koppers Holdings Inc. (KOP) Trinity Industries Inc. (TRN) Wabtec Corp. (WAB)	174.88 € 43.65 94.61 21.81 186.33 117.64 CHF 260.00 DKK 1,355.0 104.05 81.35 18.86 29.48 24.09 30.74 2.72 125.43 33.79	11.0 2.6 6.7 18.0 34.0 43.6 2.7 3.8 1.3 2.9 1.5	16.4x 13.0x 13.9x 22.8x 22.4x 21.7x 24.5x 3.4x 18.2x 6.9x 11.6x 22.4x 11.2x 16.5x 12.8x 18.3x 7.7x	2% 3%6 3%6 -4%6 -1%6 19%6 0%6 -3%6 29%6 0%6 -44%6 0%6 -44%6 0%6 -1%6 1%6	1% 24% 1996 3% 4% 149% 139% 219% 249% -119% -279% -129% 100% -8% -15% 189% 20%
B-1-7 B-2-7 B-1-7 Freight B-3-7 C-1-9 NR NR B-3-8 B-1-7 NR NR NR NR NR R-1-7 Rail Equ C-3-7	FedEx Corp. (FDX) UPS (UPS) Deutsche Post (DPSTF) (2) Airfreight Average Forwarders / Logistics: C.H. Robinson Worldwide (CHRW) RXO (RXO) Landstar System (LSTR) Expeditors International (EXPD) Kuehne + Nagel Int1 (KHNGF) (2) DSV Panalpina A/S (DSV DC) (2) Forward Air Corp. (FWRD) Ryder System, Inc. (R) Air Transport Services Group (ATSG) Fortress Transportation (FTAI) World Fuel Services (INT) Freight Forwarder Avg. ipment: The Greenbrier Companies (GBX) FreightCar America Inc. (RAIL) GATX Corporation (GATX) Koppers Holdings Inc. (KOP) Trinity Industries Inc. (TRN)	174.88 € 43.65 94.61 21.81 186.33 117.64 CHF 260.00 DKK 1,355.0 104.05 81.35 18.86 29.48 24.09 30.74 2.72 125.43 33.79 23.48	150.2 58.7 11.0 2.6 6.7 18.0 34.0 43.6 2.7 3.8 1.3 2.9 1.5	16.4x 13.0x 13.9x 22.8x 22.4x 21.7x 24.5x 3.4x 18.2x 16.5x 11.6x 22.4x 11.2x 16.5x 12.8x 18.3x 7.7x 15.5x	2% 3% 3% -4% -1% 1% 2% 6% -3% 29 696 -4% 0% 096	1% 24% 19% 3% 4% 13% 21% 24% -1% 72% -12% 10% -8% -15% 18% 20% -21%
B-1-7 B-2-7 B-1-7 Freight B-3-7 C-1-9 NR NR B-3-8 B-1-7 NR NR NR NR NR NR NR NR NR NR NR NR NR	FedEx Corp. (FDX) UPS (UPS) Deutsche Post (DPSTF) (2) Airfreight Average Forwarders / Logistics: C.H. Robinson Worldwide (CHRW) RXO (RXO) Landstar System (LSTR) Expeditors International (EXPD) Kuehne + Nagel Int1 (KHNGF) (2) DSV Panalpina A/S (DSV DC) (2) Forward Air Corp. (FWRD) Ryder System, Inc. (R) Air Transport Services Group (ATSG) Fortress Transportation (FTAI) World Fuel Services (INT) Freight Forwarder Avg. sipment: The Greenbrier Companies (GBX) Freightcar America Inc. (RAIL) GATX Corporation (GATX) Koppers Holdings Inc. (KOP) Trinity Industries Inc. (TRN) Wabtec Corp. (WAB)	174.88 € 43.65 94.61 21.81 186.33 117.64 CHF 260.00 DKK 1,355.0 104.05 81.35 18.86 29.48 24.09 30.74 2.72 125.43 33.79 23.48	150.2 58.7 11.0 2.6 6.7 18.0 34.0 43.6 2.7 3.8 1.3 2.9 1.5	16.4x 13.0x 13.9x 22.8x 22.4x 21.7x 24.5x 3.4x 18.2x 6.9x 11.6x 22.4x 11.2x 16.5x 12.8x 18.3x 7.7x 15.5x 18.5x	2% 3% 3% -4% -1% 1% 2% 0% 0% -3% 2% 6% -4% 0% -1% 1% 1% 1% 1% 1% 2% 0% 5% 6% 1% 1% 1% 2% 0% 5% 6% 5% 6% 5% 6% 5% 6% 6% 6% 6% 6% 6% 6% 6% 6% 6% 6% 6% 6%	1% 24% 19% 3% 4% 13% 21% 24% -19% -27% 72% -12% 10% -8% -15% 18% 20% 20% 22% 22%

Source: BofA Global Research estimates, Bloomberg, and First Call Estimates (for stocks not

covered by BofA Global Research).

Covered by: (2) Muneeba Kayani , (3) Carlos Peyrelongue - NR: Not Rated.

BofA GLOBAL RESEARCH

Exhibit 2: Marine Matters

Crude, Product, Container, Dry Bulk, LNG, Jones Act Summary Valuation Table

			Mkt	- -		Price
	<u>Matters</u>	Price	Cap.	P/E	1-Wk	Per
Rating		6/14/23	(\$ bil.)	'23e EPS	Perf	YTD
	Companies	20.20	1.2	Yield	40/	25%
C-2-7 NR	Teekay Tankers, Ltd. (TNK)	38.36 6.10	1.3 0.6	0.0%	4% 5%	25% 34%
NR	Teekay Shipping Corp. (TK)		3.6	15.4%		
NR NR	Euronav (EURN)	€ 14.95 8.86	3.6 1.4		3% 13%	-5% 0%
	DHT Maritime (DHT)			14.1%		
NR NR	Frontline Ltd. (FRO)	15.74 17.74	3.5 0.5	14.8%	13% 0%	309 5%
NR	Tsakos Energy Navigation (TNP)	3.71	0.5	11.9%	1%	219
NR NR	Nordic American Tanker (NAT)	3.71 9.49	1.3	10.3%	2%	3%
NR	Ship Finance Limited (SFL)			10.5%		
INK	KNOT Offshore Partners (KNOP) Tanker Average	5.27	0.2	11.1%	-7% 4%	-45°
Produc	t Tankers			11.170	470	770
C-1-7	Scorpio Tankers (STNG)	44.68	2.5	2.1%	-4%	- 179
NR	Capital Products (CPLP)	14.20	0.3	4.6%	2%	4%
NR	Ardmore Shipping (ASC)	12.69	0.5	8.7%	4%	-129
	Product Tankers Average	12.03	0.5	5.1%	1%	-89
	Troduce rainers Average			Yield		-,
LNG /						
C-1-9	Golar LNG (GLNG)(4)	21.66	2.3	0.0%	-3%	-59
NR	Dynagas LNG Partners (DLNG)	2.55	0.1		0%	-39
NR	GasLog Partners LP (GLOP)	8.58	0.5	0.5%	0%	299
NR	StealthGas (GASS)	3.11	0.1		-3%	169
	LNG / LPG Average			0.2%	-2%	9%
Lonta ii NR	ner Ship Lessors Costamare (CMRE)	9.31	1.1	4.9%	2%	0%
NR	Danaos (DAC)	65.23	1.3	4.6%	1%	249
NR	Global Ship Lease (GSL)	18.83	0.7	8.0%	-1%	139
INIX	Container Average	10.05	0.7	5.8%	1%	129
Dry Bu				EBITDA	. ,0	
NR	Navios Maritime L.P. (NMM)	20.71	0.6	3.1x	-1%	-209
NR	Safe Bulkers, Inc. (SB)	3.36	0.4	4.0x	-4%	159
NR	Diana Shipping (DSX)	3.75	0.4	6.0x	-8%	-49
NR	Eagle Bulk Shipping (EGLE)	44.37	0.6	3.4x	4%	-119
NR	Navios Maritime (NM)	1.69	0.0		1%	-39
NR	Eneti Inc (NETI)	11.60	0.4		12%	159
NR	Golden Ocean Group (GOGL)	7.75	1.6	7.2x	2%	-119
C-1-7	Pacific Basin Shipping (PCFBF)(1)	HKD 2.39	1.6	3.0x	9%	-99
	U.S. Dry Bulk Average			4.5x	2%	-49
	<u> Act Carrier/Other</u>			P/E		
B-1-9	Kirby Corp. (KEX)	74.91	4.5	21.1x	-2%	169
NR	Matson Inc. (MATX)	74.59	2.7	16.4x	-2%	199
NR	Tidewater Inc. (TDW)	43.82	2.2	13.2x	-10%	199
	Jones Act Carrier/Other Average			16.9x	-5%	189
Contai i B-2-8	ner Shipping / Diversified Companies AP Moeller-Maersk (AMKBF) (2)	DKK 12,620	32.1	9.7x	5%	- 199
D-2-0 C-2-8	COSCO Shipping Holding Co (CICOF)(1)	HK\$7.07	7.6	9.7x 0.0x	-1%	-110
C-2-8 C-2-8	K-Line (KAKKF)(1)	¥3,202.00	7.6 5.8	0.0x 1.1x	- 1% - 1%	159
C-3-8		¥3,202.00 ¥3,235.00	8.4	1.1x 1.5x	- 1%	-29
C-3-8	Mitsui O.S.K. Lines (MSLOF)(1) NYK Line (NYUKF)(1)	,	11.0	1.5x 1.5x	-2%	-29
L-3-0 NR		¥3,016.00				-229
nr NR	Wan Hai Lines (WHILF)	TWD 62.20 TWD 64.30	5.7 7.3		4% 4%	-22
	Yang Ming Marine (YMGXF)					
C-2-8	Evergreen Marine Corp (EVGQF)(2)	TWD 161.50	11.1	10.8x	7%	-19
NR	Hapag Llyod ADR (HLAG GY))(2)	€ 190.50	36.4	11.3x	4%	7%
C-3-9	ZIM Integrated Shipping Svcs (ZIM)	13.52	1.6		-2%	-219
	Container & Diversified Average		112 1	2.8x	1%	-69
	Shipping Mkt Cap / Shipping Avg	4272.50	113.1	21.0	1%	3%
	S&P 500	4,372.59		21.9x	2%	149

Source: BofA Global Research estimates, Bloomberg, (for stocks not covered by BofA Global Research)

Covered by: (1) Nathan Gee , (2) Muneeba Kayani, (4) Chase Mulvehill NR: Not Rated.

BofA GLOBAL RESEARCH

Airfreight and Surface Transportation Weekly Movers

 Best:
 AUR (+11%)
 FTAI (+6%)
 YELL (+4%)

 Worst:
 PTSI (-5%)
 CVLG (-4%)
 RXO (-4%)

Marine Transportation Weekly Movers

 Best:
 DHT (+13%)
 FRO (+13%)
 NETI (+12%)

 Worst:
 TDW (-10%)
 DSX (-8%)
 KNOP (-7%)



Upcoming Calendar of Events

May 31-June 15	Hoexter's 20-minute Shipping & Transport Conference Call Series
June 21	BofA hosting XPO in NYC
June 27-28	Canadian Pacific (CP) Analyst Day, Kansas City
July 10-11	Midwest Assoc of Rail Shippers (MARS) Meeting; Lake Geneva
Sep 11-13	Intermodal Expo (IANA), Long Beach, CA
Sep 12-23	Southeast Rail Shippers Assoc (SEARS) Meeting; Savannah
Sep 26-27	Southwest Rail Shippers Assoc (SWARS) Meeting; San Diego
Oct 1-4	Council of Supply Chain Mgmt Professionals (CSCMP) EDGE Conf; FL
Oct 4-6	Northeast Rail Shippers Assoc (NEARS) Meeting; Portland
Oct 10-11	Pacific Northwest Rail Shippers Assoc (PNWARS) Meeting; Seattle

BofA Global Research Reports

Primary Author	orDate Published
Ken Hoexter	13 June 2023
	12 June 2023
Ken Hoexter	09 June 2023
Ken Hoexter	09 June 2023
<u>e</u> Ken Hoexter	08 June 2023
Ken Hoexter	08 June 2023
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Company News

ArcBest's less-than-truckload (LTL) unit ABF Freight System tentatively agreed with the International Brotherhood of Teamsters (Teamsters) union on a new 5-year contract ahead of its current June 30 contract expiration. The tentative deal will be put to an employee ratification vote in the coming weeks and provides 8,600 union workers with wage increases, benefits, and better working conditions. ARCB would not comment on details during the voting period, as Teamsters will hold two-man meetings with each Local union and then work with the rank and file before a vote is conducted. Separately, ArcBest posted its mid-2Q update with May LTL tons/day up 2% year-year after a 1% increase in April. The improvement is due to higher-than-expected weight per shipment increases. May shipments/day increased 2% year-year, decelerating from +5% in April, to average 3.4% 2Q-to-date. May weight/shipment declined 1% year-year vs -3% April to average -2% 2Q-to-date. Revenue/hundredweight (cwt) was down 12% in May, accelerating down from -10% in April, to average -11% 2Q-to-date given a higher spot mix. May revenue/day was down 10% year-year to average -9.6% 2Q-to-date. In Asset Light, revenue/day was down 25% year-year on average 2Q-to-date as a 3% year-year avg increase in 2QTD shipments was offset by a 30% avg decline in 2QTD rev/shipment.

RXO invested \$2.6 million to expand its 18,000-square-foot brokerage office in Ann Arbor, Michigan, which can support more than 175 employees.

Yellow Corp. reported LTL shipments per day decreased -15.4% in April 2023 and -13.8% in May 2023, compared to 2022, and are down -14.6% QTD. Weight per shipment was down -1.1% in April, down -2.9% in May, and down -2.0% QTD. Tons/day were down -16.4% in April, down -16.3% in May, and down -16.3% QTD. Revenue per Hundredweight was down -1.5% in April, down -3.8% in May, and down -2.7% QTD. Revenue per shipment was down -2.6% in April, down -6.6% in May, and down -4.7% QTD. Separately, Teamsters noted that Yellow informed it that without proposed operational changes to its contract, Yellow will be out of money by August. Sean O'Brien, Teamsters general president noted that the union has given Yellow billions in the form of wage, benefit, and work rule concessions in the past, and noted the carrier received \$700 million from the government in a COVID-relief loan (which it used to catch up on delinquent health and pension benefits and buy new equipment). Mr. O'Brien noted it is not left for the Teamsters to save this company, we have given enough." Yellow has offered to pull forward contract wage increases in exchange for accelerated work rule changes (1000 drivers, or 20% of total road drivers, would be required to work on docks, of which 400 already do). The current contract expires March 31, 2024.



FedEx Corp. and Floship, a global circular supply chain solutions provider for e-commerce brands, partnered to provide enhanced fulfillment and logistics services to e-tailers worldwide. FedEx's e-commerce customers will have access to Floship's network of warehouses and logistics platform's capabilities to streamline their e-commerce fulfillment operations, and Floship's customers will be able to take advantage of FedEx transportation options to optimize its operations. Additionally, FedEx's and Floship's cross-border e-commerce customers in Asia-Pacific, Middle East and Africa, Europe, and North America will gain access to enhanced fulfillment, last-mile delivery, and hassle-free returns.

UPS and the Teamsters union announced that, starting next year, UPS' package delivery trucks will come equipped with air conditioning. Older trucks will be retrofitted to allow air conditioning. Both parties are negotiating a new contract for 330,000 workers, set to expire July 31, with heat protections. Heat shields in cargo section will be included on all new trucks purchased, and retrofitted to existing trucks within 18 months of contract ratification.

Autonomous Trucking

TuSimple Holdings was awarded a fully driverless test license by the Pudong New Area of Shanghai in China, enabling it to conduct SAE Level 4 fully autonomous Driver Out testing in the designated test areas of Yangshan Deep-water Port and Donghai Bridge. Shanghai is set to become the first city in China to pass legislation to allow Level 4 fully driverless testing of autonomous trucks.



Week 23 Rail Carload Data: Down -4.8% Y-Y

Key Takeaways – Down -4.8% (from -2.8% last week): Total carloads for week 23 of 2023 were down -4.8% year-over-year to 597,246 (BNSF has not reported yet), deteriorating from last week's -2.8% decrease (or 573,235 carloads). Carloads have declined for the past 18 consecutive weeks and were below the past 10-week avg. of -4.1%. 2Q23 carloads comp against a -1.1% decrease in 2Q22. Coal (-0.9%) was down, reversing last week's +0.9% increase. Nat Gas prices were up (+3.4%), to \$2.34/MMBtu, from \$2.26/MMBtu last week. The absolute level of coal carloads was 56k, down from last week's 58k, and below the 57k past 10-week avg. Chemical volumes were down -6.9%, deteriorating from last week's -4.4% decrease. Chemical carloads have declined for 14 of the past 15 weeks. Grain (-4.3%) was down, deteriorating from last week's -2.3% decrease. Petroleum (-1.4%) was down, moderating from last week's -4.4% decrease. This was the 10th consecutive downtick for petroleum product carloads. Intermodal (-9.1%) was down, deteriorating from last week's -6.5% decrease. Intermodal was down for 29 of the past 32 weeks, while absolute volumes were 273k, up from 256k last week, and above the 266k past 10 week avg. Auto (+14.8%) was up, improving from last week's +13.1 increase. This was Auto's 63rd consecutive uptick.

Overall Carloads: Week 23 carloads were down -4.8% year-over-year, as all rails declined: CN (-8.1%), UP (-5.3%), CPKC (-4.2%), NS (-4.1%), and CSX (-2.3%). Quarter-to-date, carloads are down -4.1% year-over-year, as all rails are down: CN (-7.9%), NS (-6.3%), CSX (-3.2%) CPKC (-1.6%), and UP (-1.6%). The 2Q23 carload trend of -4.1% is below our -2.1% full quarter target for the Class I rails on average. The average carrier is trending below our target (-200 bps), with CNI the best at +100 bps vs. our target (-7.9% vs. our -8.9%), vs CPKC (CP standalone) the worst at -670 bps (-1.6% vs. our +5.0%).

Revenue Ton Miles: Week 23 RTMs: CN's RTMs are down -10.2% y-y 2QTD. CPKC's RTM are down -14.6% y-y 2QTD.

Specifics: Intermodal carloads (45.8% of total) were down -9.1% year-over-year, as all rails declined: CN (-13.7%), UP (-11.0%), NS (-8.8%), CSX (-7.3%), and CPKC (-2.6%). Coal carloads (9.4% of total) were down -0.9% year-over-year, as decreases at CPKC (-11.1%), UP (-8.4%), and NS (-4.8%) more than offset increases at CSX (+10.1%) and CN (+15.7%). Chemical carloads (8.8% of total) were down -6.9% year-over-year, as all rails declined: CPKC (-20.2%), CSX (-10.9%), NS (-3.9%), CN (-1.5%), and UP (-1.0%). Grain carloads (3.6% of total) were down -4.3% year-over-year, as decreases at UP (-19.0%), CSX (-16.6%), and CPKC (-1.6%) more than offset increases at CN (+5.6%) and NS (+23.5%). Petroleum carloads (3.6% of total) were down -1.4% year-over-year, as decreases at NS (-16.3%) and CN (-5.8%) more than offset increases at UP (+0.4%), CPKC (+4.8%), and CSX (+11.0%). Auto carloads (5.7% of total) were up +14.8% year-over-year, as all rails increased: (+18.0%), CSX (+17.0%), NS (+16.8%), CPKC (+10.9%), and CN (+6.0%).

Exhibit 3: Carloads Week 23 2023 vs. 2022; and 2QTD volumes Week 23 Rail Carload Data: Down -4.8% Y-Y

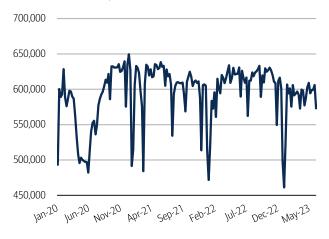
	% of total	2023 Wk 23	2022 Wk 23	% Δ	2Q23 QTD	% Δ
Intermodal	45.8%	273,753	301,033	-9.1%	2,677,726	-9.6%
Coal	9.4%	56,226	56,732	-0.9%	565,650	1.2%
Chemicals	8.8%	52,366	56,236	-6.9%	553,277	-2.9%
Auto	5.7%	34,028	29,649	14.8%	324,927	12.7%
Grain	3.6%	21,445	22,409	-4.3%	235,396	4.3%
Forest Prod.	3.5%	20,924	22,744	-8.0%	211,055	-7.3%
Petrol. Prod.	3.6%	21,370	21,666	<u>-1.4%</u>	201,618	<u>-3.5%</u>
Total Carloads		597,246	627,109	-4.8%	5,945,813	-4.1%

Source: AAR, BofA Global Research



Exhibit 4: Total Weekly Carload Volumes

Total volumes were 597,246 for Week 23



Source: Association of American Railroads, and BofA Global Research

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Exhibit 5: Total Weekly Carload Growth Y-o-Y

Total volume growth was -4.8% y-y for Week 23



Source: Association of American Railroads, and BofA Global Research

BofA GLOBAL RESEARCH

Exhibit 6: Total Quarterly Carload Growth Y-o-Y

Total Carloads forecast down -2.1% in 2Q23

	1Q19a	2Q19a	3Q19a	4Q19a	1Q20a	2Q20a	3Q20a	4Q20a	1Q21a	2Q21a	3Q21a	4Q21a	1Q22a	2Q22a	3Q22a	4Q22a	1Q23e	2Q23e
BNSF	-5.4%	-3.6%	-2.5%	-6.2%	-5.2%	-17.9%	-8.3%	2.6%	4.8%	24.5%	4.4%	-3.1%	-3.3%	-5.6%	-5.0%	-9.2%	-10.3%	
CNI	0.7%	2.1%	0.4%	-7.3%	-5.9%	-15.9%	-5.9%	7.1%	7.2%	13.5%	-0.9%	-10.0%	-5.9%	0.3%	2.9%	2.5%	0.5%	-8.9%
CPKC	-2.1%	5.6%	1.4%	-1.1%	8.7%	-12.0%	-7.4%	3.7%	0.1%	14.7%	0.9%	-9.9%	-9.5%	-1.5%	9.8%	8.9%	8.7%	5.0%
CSX	-0.1%	-3.9%	-5.3%	-6.6%	-1.1%	-20.5%	-3.0%	3.9%	1.0%	26.6%	2.7%	-1.8%	-2.0%	0.2%	1.5%	-1.8%	-0.8%	-1.3%
NSC	0.1%	-3.8%	-5.8%	-9.2%	-11.4%	-25.6%	-7.0%	-1.2%	2.9%	25.5%	-0.3%	-3.6%	-4.5%	-3.3%	-2.1%	-1.3%	-0.1%	-4.9%
UNP	-1.8%	-4.0%	-8.1%	-11.1%	-7.0%	-19.6%	-4.0%	2.9%	-0.7%	21.9%	0.0%	-3.9%	4.1%	-1.4%	3.2%	0.8%	-1.4%	-0.6%
<u>Total</u>	-1.8%	-2.3%	-3.8%	-7.3%	-4.9%	-19.5%	-5.9%	2.6%	2.5%	22.5%	1.1%	-4.4%	-2.3%	-2.0%	0.8%	-1.4%	-2.2%	-2.1%

Source: Association of American Railroads.

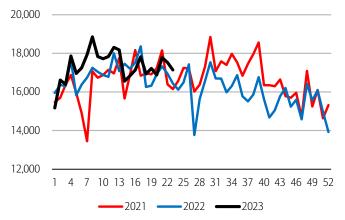
Note: The total for 2Q23 is an average of the estimates; CPKC's actuals and estimates correspond to CP carloads.

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Selected Segments Weekly Carloads

Exhibit 7: Metal Carloads

Metal Carloads were 17,141 in Week 23, up 4.3% Y-Y

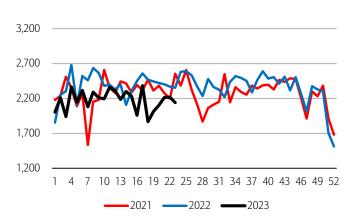


Source: Company data, and BofA Global Research

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Exhibit 8: Forest Product Carloads

Forest Product Carloads were 2,141 in Week 23, down -9% Y-Y



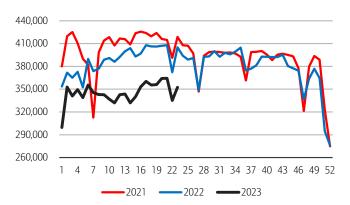
Source: Company data, and BofA Global Research



Selected Segments Weekly Carloads

Exhibit 9: Intermodal Carloads

Intermodal Carloads were 352,401 in Week 23, down -13% Y-Y

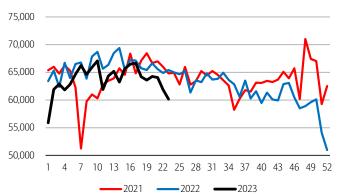


Source: Company data, and BofA Global Research

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Exhibit 11: Chemical Carloads

Chemical Carloads were 60,178 in Week 23, down -8% Y-Y

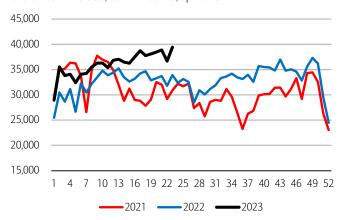


Source: Company data, and BofA Global Research

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Exhibit 13: Auto Carloads

Auto Carloads were 39,431 in Week 23, up 16.2% Y-Y

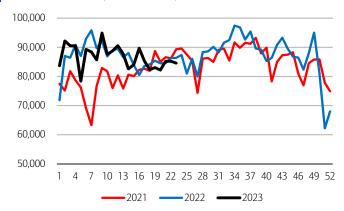


Source: Company data, and BofA Global Research

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Exhibit 10: Coal Carloads

Coal Carloads were 84,576 in Week 23, down -2.1% Y-Y



Source: Company data, and BofA Global Research

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Exhibit 12: Grain Carloads

Grain Carloads were 30,089 in Week 23, down -6.8% Y-Y

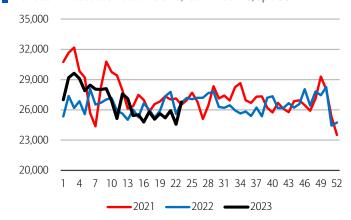


Source: Company data, and BofA Global Research

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Exhibit 14: Petroleum Products Carloads

Petroleum Products Carloads were 26,786 in Week 23, up 0.3% Y-Y



Source: Company data, and BofA Global Research



Selected Segments Weekly Carloads

Exhibit 15: BNSF Carloads

QTD Carloads are -12.2%



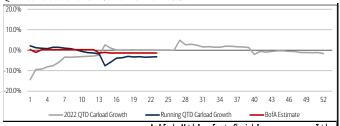
						Total
Carloads	Intermodal	Automotive	Industrial	Coal	Agriculture	Carloads
2023 Week 23	78,648	5,403	30,666	28,350	17,693	160,760
2022 Week 23	103,976	4,278	33,386	29,664	19,708	191,012
2Q23 QTD	834,980	53,360	317,371	278,592	197,110	1,681,413
2Q22 QTD	1,043,475	45,592	322,186	288,498	216,353	1,916,104
2Q QTD yoy % Chng	-20.0%	17.0%	-1.5%	-3.4%	-8.9%	-12.2%

Source: Association of American Railroads, BofA Global Research estimates, and Company reports

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Exhibit 17: CSX Carloads

OTD Carloads are -3.2% vs. BofAe -1.3%



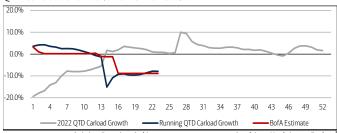
				Ag. & Food	Metals &	Forest	Chemicals &		Total
Carloads	Coal	Intermodal	Automotive	Products	Equipment	Products	Petrol.	Fertilizers	Carloads
2023 Week 23	15,017	54,769	8,122	7,834	5,652	4,779	14,194	2,147	121,064
2022 Week 23	13,607	59,063	6,939	8,844	5,128	5,106	14,960	2,306	123,860
2Q23 QTD	143,168	522,223	80,201	86,459	58,585	48,118	146,379	22,151	1,191,707
2Q22 QTD	138,271	582,058	66,180	86,934	56,687	49,542	149,522	24,219	1,231,119
2Q QTD yoy % Chng	3.5%	-10.3%	21.2%	-0.5%	3.3%	-2.9%	-2.1%	-8.5%	-3.2%
2Q BofA estimate	11.0%	-7.5%	7.0%	4.0%	5.0%	-1.0%	1.0%	-2.0%	-1.3%

Source: Association of American Railroads, BofA Global Research estimates, and Company reports

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Exhibit 19: CNI Carloads

QTD Carloads are -7.9% vs. BofAe -8.9%



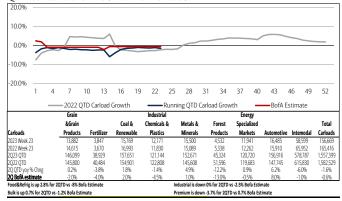
	Grain &	Forest &	Coal &			Petrol. &	Metals &	Total
Carloads	Fertilizer	Paper	Coke	Intermodal	Automotive	Chemicals	Minerals	Total Carloads 102,069 111,017 1,054,624 1,144,849 -7.9% -8.9%
2023 Week 23	10,678	5,942	8,939	42,100	4,505	12,797	17,109	102,069
2022 Week 23	10,468	6,752	8,692	48,759	4,251	13,127	18,968	111,017
2Q23 QTD	117,066	62,714	102,157	424,947	45,497	125,605	176,638	1,054,624
2Q22 QTD	107,402	68,004	99,790	517,629	42,646	130,339	179,039	1,144,849
2Q QTD yoy % Chng	9.0%	-7.8%	2.4%	-17.9%	6.7%	-3.6%	-1.3%	-7.9%
2Q BofA estimate	17.0%	-4.0%	1.0%	-23.0%	5.0%	-4.5%	2.0%	-8.9%

Source: Association of American Railroads, BofA Global Research estimates, and Company reports

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Exhibit 16: Union Pacific Carloads

QTD Carloads are -1.6% vs. BofAe -0.6%

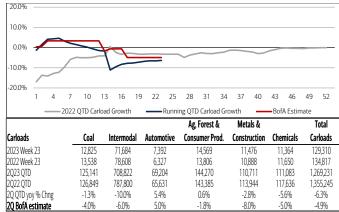


Source: Association of American Railroads, BofA Global Research estimates, and Company reports

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Exhibit 18: NSC Carloads

QTD Carloads are -6.3% vs. BofAe -4.9%

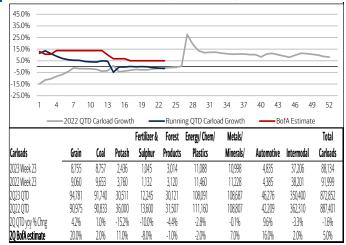


Source: Association of American Railroads, BofA Global Research estimates, and Company reports

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Exhibit 20: CPKC Carloads

QTD Carloads are -1.6 % vs. BofAe (CP standalone) +5.0%



Source: Association of American Railroads, BofA Global Research estimates, and Company reports

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Diesel Fuel Prices: -0.1% sequentially

Diesel fuel prices were down slightly -0.1% sequentially, to \$3.79 for week 23 of 2023, compounding last week's -1.5% decrease. This was the 19^{th} downtick over the last 20 weeks, as prices continue at the lowest level since Week 4 of 2022. The 2Q23 average for on-highway diesel is \$3.96/gallon, down 28% y-y from \$5.48 in 2Q22, and down 10% sequentially from 1Q23's \$4.41.

WTI crude oil futures closed at \$69.42, down -3.2% from last week's \$71.74. WTI is below \$70 for the second time over the past three weeks. The 2Q23 average is \$74.51, down 31% from 2Q22's \$108.60 average, and down 2% seq. from 1Q23's \$76.12. We target \$78 and \$78 for 2Q23 and 2023.

Brent crude oil futures closed at \$74.29, down -2.6% from last week's \$76.29. The 2Q23 average is \$78.60, down 30% from the 2Q22 average of \$111.97, and down 4% sequentially from 1Q23's average of \$82.16.

The Brent to WTI gap is \$4.87, up from last week's \$4.55. The current spread is up +45% from the 2Q22 avg. of \$3.36.

Natural Gas futures closed at \$2.34 on June 13, up +3.4% from last Tuesday. Nat Gas is below \$3.00 for the 20th consecutive week. The 2Q23 average is \$2.28, down -70% from the 2Q22 average of \$7.47.

Exhibit 21: Fuel surcharges

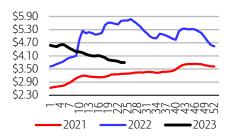
Surcharges were mixed across the board (TL, LTL, Air)

	Week 21 <u>5/24/23</u>	Week 22 5/31/23	Week 23 6/7/23
ARCB - LTL	31.4%	31.3%	30.5%
XPO - LTL	32.8%	32.8%	32.8%
YELL - LTL	31.7%	31.4%	30.8%
ARCB - TL	62.8%	62.6%	61.0%
XPO - TL	65.5%	65.5%	65.5%
YELL - TL	63.4%	62.8%	61.6%
FDX - Express	14.00%	14.00%	13.75%
UPS - Express	16.00%	16.00%	16.00%
FDX - Ground	14.25%	14.25%	14.25%
UPS - Ground	14.25%	14.25%	14.25%
	<u>Apr-23</u>	<u>May-23</u>	<u>Jun-23</u>
UP (standard)	\$0.47	\$0.43	\$0.40
y-y % change	21%	10%	-34%
UP (coal)	\$0.47	\$0.43	\$0.40
y-y % change	21%	10%	-34%
CSX	\$0.61	\$0.56	\$0.53
y-y % change	20%	-28%	-33%
KCS	\$0.57	\$0.52	\$0.49
y-y % change	19%	-31%	-35%

Source: BofA Global Research, company reports

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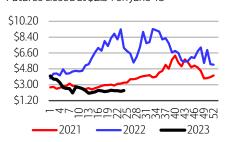
Exhibit 22: National Diesel Fuel Prices Diesel fuel prices: \$3.79 for week 23 of 2023



Source: BofA Global Research, DOE, Bloomberg

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Exhibit 23: US Nat Gas Price Per MMBtu. Futures closed at \$2.34 on June 13th



Source: BofA Global Research, DOE, Bloomberg

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Exhibit 24: Brent to WTI Spread

The Brent to WTI gap is \$4.87



Source: BofA Global Research, DOE, Bloomberg

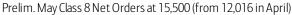
Exhibit 25: Thermal Coal, Europe Coal 6000kcal CIF ARA Forward

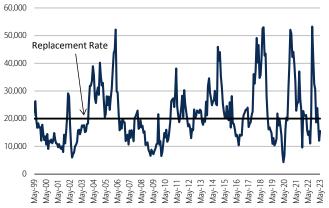


Source: Bloomberg

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Exhibit 27: Class 8 Truck net orders





Source: American Commercial Transportation Research Co.

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Exhibit 28: Class 8 Truck net orders

Final Class 8 Net Orders at 12,016 in April (Preliminary was 11,600)

CLASS 8 NET	ORDERS					
	<u>2018</u>	<u>2019</u>	2020	<u>2021</u>	2022	2023
JAN	49,136	16,105	17,204	42,307	21,041	18,624
FEB	40,271	16,854	14,040	44,190	21,006	23,790
MAR	46,593	15,783	7,632	40,049	21,301	19,010
APR	34,735	14,859	4,251	33,353	15,820	12,016
MAY	35,721	10,886	6,690	23,072	14,081	
JUN	42,213	12,979	16,010	25,824	15,444	
JUL	52,618	10,298	20,359	25,876	11,025	
AUG	53,040	11,119	19,389	37,096	20,892	
SEP	42,781	12,692	30,768	27,323	53,271	
ОСТ	43,526	21,864	39,089	23,391	42,359	
NOV	28,114	17,483	52,104	9,902	32,630	
DEC	21,381	20,073	50,760	20,651	30,623	
Year Total	490,129	180,995	278,296	353,034	299,493	73,517

Source: American Commercial Transportation Research Co.

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Exhibit 26: Australian Premium Coking Coal Futures

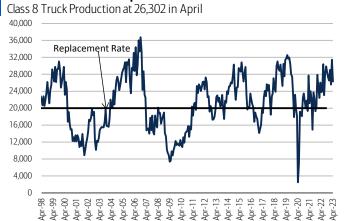


Prelim. May Class 8 Net Orders at 15,500

(from 12,016 in April)

April Class 8 Final Net Orders 12,016

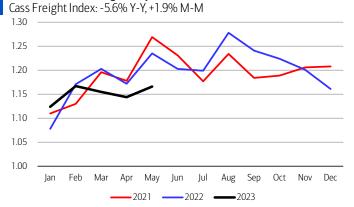
Exhibit 29: Class 8 Truck production



Source: American Commercial Transportation Research Co.

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Exhibit 30: Cass Freight Shipments Index

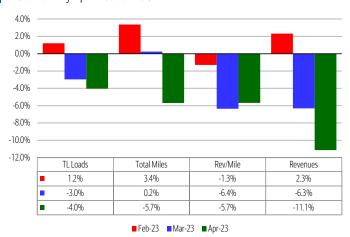


Source: Cass Information Systems, Inc.

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Exhibit 31: Truck Activity

Truck Activity April. Loads -4.0% Y-Y



Source: American Trucking Association

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Class 8 Truck Production at 26,302, Down -16% Sequentially

Cass Freight Index: -5.6% Y-Y, +1.9% M-M

The Cass Freight Shipment index declined -5.6% year-over-year in May, deteriorating from April's -2.4% decrease. This was the sixth downtick over the last seven months. The index was up +1.9% sequentially, reversing April's -1.0% decrease. The expenditures index which measures the total dollars spent on freight transportation, including both contract and spot market rates, was down -15.7% year-over-year, deteriorating from April's -14.0%. This was the third consecutive double-digit decline. The overall index for both shipments and expenditures decreased -13.4% from May 2022. Cass remarked that declining real retail sales trends, and ongoing destocking, remain the primary headwinds to freight volumes but the dynamic is shifting as real incomes improve and the worst of the destock is being left behind.

Truck Activity: April Loads -4.0% Y-Y

Exhibit 32: Historical ATA Truck Tonnage Index

Preliminary April Truck Tonnage: -3.4% Y-Y, -1.7% M-M



Source: American Trucking Association

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Exhibit 33: Historical ATA Truck Tonnage Index

March Truck Tonnage: -2.4% Y-Y, -2.8% M-M

	2017	2018	2019	2020	2021	2022	2023
JAN	103.2	109.5	116.1	117.0	114.2	115.5	117.0
FEB	104.2	111.9	116.1	116.9	112.5	116.1	118.0
MAR	103.5	112.7	116.7	117.9	114.5	118.8	114.7
APR	104.3	111.9	117.6	107.3	113.7	116.5	
MAY	105.0	113.3	117.4	109.7	112.9	117.1	
JUN	103.7	113.8	117.1	111.1	111.3	117.5	
JUL	106.9	113.0	118.3	113.1	110.6	115.8	
AUG	108.2	113.7	119.7	110.9	110.8	118.2	
SEP	108.8	114.7	117.3	111.0	112.7	119.1	
ОСТ	109.2	116.0	117.9	111.1	113.1	117.6	
NOV	109.9	116.8	116.9	111.8	113.8	114.8	
DEC	111.6	114.7	116.1	113.1	114.9	116.2	
Avg.	106.5	113.5	117.3	112.6	112.9	116.8	116.6

Source: American Trucking Association

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Exhibit 34: ISM Manufacturing Index

May ISM Manufacturing Index 46.9, -0.2 pts



Source: Bloomberg

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Prelim. April Truck Tonnage: -3.4% Y-Y, -1.7% M-M

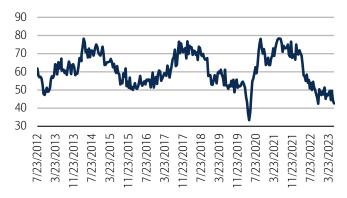
March Truck Tonnage: -2.4% Y-Y, -2.8% M-M

ISM Manufacturing Index 46.9, -0.2 pts



Exhibit 35: BofA Truckload Diffusion Indicator

Demand Indicator to 42.6 from 44.3 (bi-weekly Issue #284 on June 1st)



Source: BofA Global Research estimates

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Exhibit 36: Shippers' 6-12 months outlook for freight demand

L-T Demand Indicator at 50.5, down 1.1 pts sequentially



Source: BofA Global Research estimates

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Exhibit 37: Shippers' view of inventory levels

Inventory Indicator at 62.8, up from 61.5 last issue



Source: BofA Global Research estimates

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BofA TRUCK SHIPPER SURVEY Survey Says: Demand (42.6)

This week, our proprietary bi-weekly **BofA Truckload Demand Indicator** for shippers' 0- to 3-month freight demand outlook decreased to 42.6 from 44.3 last survey, down 4% sequentially, hitting its 5th lowest level on record. The Demand Indicator remains sub-50 for the 16th time in the past 18 issues and sub-60 for the 30th consecutive survey. It remains well below the 54.2 average level of the '12, '15, '19 Freight Recession periods and is down 27% y-y. The downtick suggests weak truck freight demand outlook on pressured macro environment. Rail carloads fell 4% y-y this week, the 16th consecutive downtick. However, dry van spot rates ex-fuel climbed to \$1.39/mile on avg this week (per Truckstop.com), down 15% YTD, but up from May's \$1.25/mile (toward \$1.50-\$1.60 cost/mi of operation). Shippers' short-term Negative outlooks were 38%, from 40% last survey; Positive outlooks were 17%, down from 25% last survey; and Neutral outlooks were 45%, up from 35% last issue. For the week of June 1st, we surveyed 47 shippers across the U.S. to get current views on freight demand, supply, pricing, and inventories.

Capacity indicator up; Rates view (& rates) climb from trough

The Truck Capacity Indicator, which measures shippers' views of available truckload capacity, increased to 74.5 from 68.8 last survey, as shippers see more available truck capacity. **The Rate Indicator**, or shippers' views on truck rates, increased to 33.0 from 31.3, up 6% sequentially, in-line with spot rate moves as rate expectations rose after the end of March-May bid season (when annual contracts renew).

Inventory indicator ticks up

The Inventory Indicator ticked up to 62.8 from 61.5 last survey, up 2% sequentially, as shippers see slightly higher inventory levels. With respect to rates, 36% expect rates to fall, from 48% last issue, 62% expect flat pricing, from 42% last issue, and 2% expect rates to rise, down from 10% last issue. On capacity, 51% expect capacity to rise from 42% last issue, 47% expect capacity to remain flat, down from 54% last issue, and 2% expect capacity to be lower, down from 4% last issue. SHIPPER COMMENTS: An Industrial Shipper believes all indications point to a tepid freight market for the rest of the year unless an unknown world or geopolitical event were to occur. A Manufacturing Shipper still sees downward pricing pressures in the truckload spot market and noted some Less-than-Truckload carriers working to build profitability. (See survey for additional commentary).

Exhibit 38: Shippers' view of Trucking rates over the next 3 months Rate Indicator at 33.0, +1.7 pts sequentially



Source: BofA Global Research estimates.

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Exhibit 40: BofA Truckload 0-3 month Demand (Diffusion) Indicator Diffusion indicator month-by-month levels

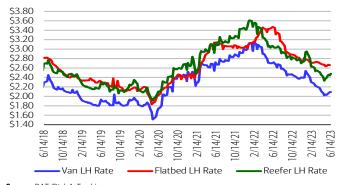
		2019		2020		2021		2022	:	2023
Jan	1/3	55.1	1/2	52.3	1/14	63.8	1/13	75.0	1/12	47.5
	1/17	58.1	1/16	54.1	1/28	63.8	1/27	70.0	1/26	51.3
Feb	1/31	56.7	1/30	54.6	2/11	67.5	2/10	69.5	2/9	45.1
	2/14	53.7	2/13	53.1	2/25	68.8	2/24	71.9	2/23	47.6
Mar	2/28	59.2	2/27	51.3	3/11	72.9	3/10	70.3	3/9	46.9
	3/14	60.1	3/12	46.1	3/25	68.8	3/24	69.2	3/23	48.3
Apr	3/28	59.2	3/26	43.5	4/8	73.0	4/7	64.1	4/6	49.5
	4/11	61.2	4/9	37.2	4/22	75.7	4/21	58.0	4/20	44.4
	4/25	58.3	4/23	33.3	5/6	77.6	5/5	57.5	5/4	49.5
May	5/9	56.6	5/7	37.8	5/20	78.3	5/19	55.0	5/18	44.3
	5/23	52.5	5/21	46.2	6/3	78.3	6/2	58.5	6/1	42.6
Jun	6/6	61.1	6/4	54.6	6/17	78.1	6/16	54.0	6/15	
	6/20	52.5	6/18	56.4	7/1	75.7	6/30	55.5	6/29	
Jul	7/4	52.3	7/2	59.3	7/15	70.9	7/14	50.9	7/13	
	7/18	50.6	7/16	62.5	7/29	74.3	7/28	53.9	7/27	
Aug	8/1	52.6	7/30	59.1	8/12	73.0	8/11	50.0	8/10	
	8/15	51.9	8/13	63.5	8/26	73.0	8/25	54.5	8/24	
Sep	8/29	55.0	8/27	71.1	9/9	73.6	9/8	51.6	9/7	
	9/12	51.9	9/10	75.8	9/23	75.0	9/22	50.0	9/21	
Oct	9/26	55.6	9/24	78.1	10/7	69.4	10/6	47.6	10/5	
	10/10	48.7	10/8	73.3	10/21	68.3	10/20	45.6	10/19	
	10/24	53.8	10/22	70.0	11/4	76.6	11/3	42.4	11/2	
Nov	11/7	55.7	11/5	72.5	11/18	67.7	11/17	50.4	11/16	
_	11/21	51.3	11/19	69.9	12/2	69.7	12/1	47.8	11/30	
Dec	12/5	52.3	12/3	63.8	12/16	68.6	12/15	47.2	12/14	
	12/19	51.9	12/17	66.3	12/30	66.7	12/29	49.4	12/28	
			12/31	67.7					i	

Source: BofA Global Research estimates

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Exhibit 42: Month-to-Date Run Rate

Van Rate = \$2.09 Flatbed Rate = \$2.66 & Reefer Rate = \$2.48



Source: DAT (Dial-A-Truck)

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Exhibit 39: Shippers' view of Capacity over the next 3 months

Capacity Indicator increased to 74.5, above its historic 50 avg

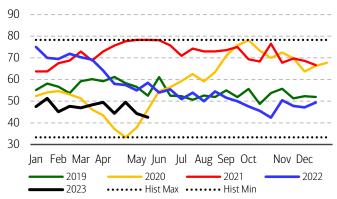


Source: BofA Global Research estimates.

BofA GLOBAL RESEARCH

Exhibit 41: Demand (Diffusion) Indicator for 0-3 month demand outlook on stack basis (2019-2023)

Demand Indicator to 42.6 (bi-weekly Issue #284 on June 1st)



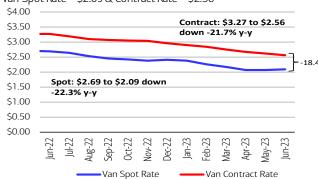
Source: BofA Global Research estimates

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Disclaimer: The indicator identified as BofA Truckload Diffusion Indicator in this report is intended to be an indicative metric only and may not be used for reference purposes or as a measure of performance for any financial instrument or contract, or otherwise relied upon by third parties for any other purpose, without the prior written consent of BofA Global Research. This indicator was not created to act as a benchmark.

Exhibit 43: Monthly Van Spot Rate vs. Contract Rate

Van Spot Rate = \$2.09 & Contract Rate = \$2.56



Source: DAT (Dial-A-Truck)



Exhibit 44: Monthly Flatbed Spot Rate vs. Contract Rate

Flatbed Spot Rate = \$2.66 & Contract Rate = \$3.23

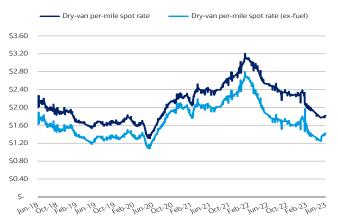


Source: DAT (Dial-A-Truck)

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Exhibit 46: Truckstop.com Spot Rates

Dry-Van Spot = \$1.82, Dry-Van (ex-fuel) = \$1.42



Source: Truckstop.com, Bloomberg

BofA GLOBAL RESEARCH

Exhibit 47: STB employment data

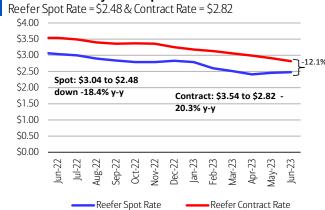
April STB employment: 121,391, up +5.5% Y-Y



Source: BofA Global Research, Company Reports

BofA GLOBAL RESEARCH

Exhibit 45: Monthly Reefer Spot Rate vs. Contract Rate



Source: DAT (Dial-A-Truck)

BofA GLOBAL RESEARCH

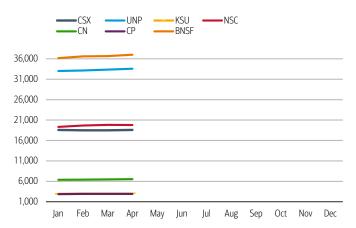
TruckStop Spot Rates: Dry-Van Spot = \$1.82, Dry-Van (ex-fuel) = \$1.42

Truckstop.com's Dry van spot rates ex-fuel were \$1.42/mi for the week ending June 14, up from \$1.40/mi the prior week (June 7) and are down -14% YTD (from \$1.64/mi on Dec 31). Truckstop.com's Dry van spot rates (fuel included) were \$1.82/mi for the week ending June 14, up from \$1.80/mi the prior week (June 7) and are down -20% YTD (from \$2.28/mi on Dec 31).

Fuel represented \$0/40 mi, flat with last week's \$0.40/mi and down from \$0.64 on Dec 31.

Exhibit 48: STB monthly total employment by company

STB monthly total employment by company



Source: BofA Global Research, Company Reports

Exhibit 49: Top 10 US ports loaded volumes

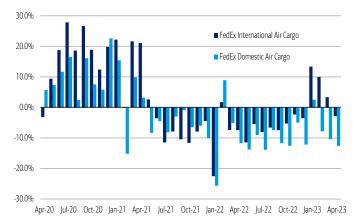
Top 10 Ports in April: -16.5% Y-Y, LA/LB -20% Y-Y

	2023	2023	Mar-23	Apr-23	Apr-23
Top 10 U.S. Ports	TEU's	YTD Chg %	Y-O-Y %	Y-O-Y %	TEU's
Los Angeles (17% of total					
US)	1,656,703	-25%	-31%	-22%	431,890
Long Beach (16%)	1,583,673	<u>-24%</u>	-24%	<u>-17%</u>	436,107
Total LA/LB (35% of		_			
total)	3,240,376	-25%	-28%	-20%	867,997
New York (17%)	1,658,513	-20%	-28%	-19%	431,191
Savannah (12%)	1,218,422	-10%	-10%	-16%	313,956
Houston (11%)	1,026,260	3%	-3%	-10%	251,038
Norfolk (9%)	852,450	26%	-16%	-13%	210,435
Seaport Alliance (5%)	510,007	-21%	-28%	-9%	132,460
Charleston (7%)	638,620	-14%	-25%	-17%	163,086
Oakland (5%)	497,009	-18%	-23%	-11%	133,333
Maryland (1%)	190,687	4%	-6%	n/a	-
Total Top Ten (91.5% of					
N.A total)	9,832,344	-16.9%	-22.1%	-16.5%	2,503,496
Vancouver	767,497	-9%	-21%	-11%	215,668
Prince Rupert	165,278	-29%	-24%	-42%	37,997

Source: Ports of Los Angeles, Long Beach, New York, Savannah, Norfolk, Oakland, Houston, Charleston, Vancouver, Manyland, and BofA Global Research estimates

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Exhibit 50: FedEx Air Cargo Volumes at Memphis International Airport Memphis Airport FDX Domestic Air Cargo Volumes in April: -12.6% Y-Y



Source: BofA Global Research and Memphis International Airport Statistics

BofA GLOBAL RESEARCH

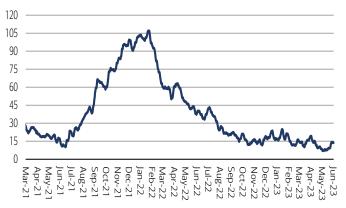
Top 10 Ports in April: -16.5% Y-Y, LA/LB - 20% Y-Y

Memphis Airport FDX Air Cargo Volumes in April: -12.6% Y-Y



Exhibit 51: Port of Los Angeles/Long Beach Vessels waiting to dock

On one-week moving average, vessels at anchor and loitering (given new queue system) were 13.8 on 6/14/23 (vs 12.2 on 6/07/23). On day-of basis: 15 vs. 17 (includes 14 vs 14 vessels at dock), or 1 vs 3 in queue alone.



Source: BofA Global Research and Port of LA/Long Beach

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IATA Freight Vols: -6.6% Y-Y in April,

North America (-13.1%)

Port of LA/Long Beach - Ships in queue -

1 on 6/14/23 (from 3 a week prior)

Exhibit 52: IATA Volume year-over-year growth

IATA Freight Vols: -6.6% Y-Y in April, North America -13.1%

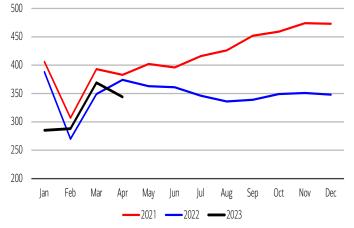


Source: International Air Transport Association

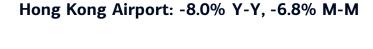
BofA GLOBAL RESEARCH

Exhibit 53: Hong Kong Airport cargo (000 tons)

HKIA April: -8.0% Y-Y, -6.8% M-M



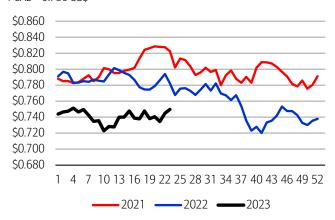
Source: Hong Kong International Airport



Canadian Dollar and Mexican Peso FX Rates

Exhibit 54: Price of 1 Canadian Dollar in US\$

1 CAD = 0.750 US\$

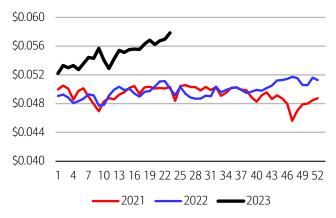


Source: Bloomberg

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Exhibit 55: Price of 1 Mexican Peso in US\$

1 MXN = 0.058 US\$



Source: Bloomberg

Rail Performance Measures

Overall Takeaway: Service levels all improved year-over-year for the second week, as Velocity, Cars-On-Line, and Dwell Time improved. On a sequential basis, service levels were mixed, as Velocity and Cars-On-Line deteriorated, while Dwell Time improved. NSC (+1.0%) led the sequential improvement in velocity this week, moderating from last week's +1.6% increase. CSX (-2.8%) trailed the group this week, reversing last week's +3.4% increase. BNSF has not reported yet.

Velocity (avg. speed of rail network, faster is better): Deteriorated sequentially (-0.5%) and improved year-over-year (+4.2%).

Cars-on-Line (fewer cars-on-line is better): Deteriorated sequentially (+0.2%) and improved year-over-year (-2.3%).

Terminal Dwell (lower is better): Improved sequentially (-3.6%) and improved yearover-year (-4.2%).

Exhibit 56: Rail Performance Metrics

Service levels were mixed sequentially but improved year-over-year

Rail Performance Measures

Velocity (avg. speed of rail network, faster is better)

	2023	2023	2022		
(miles per hour)	Week 23	Week 22	Week 23	% Seq Chg	% y-y Chg
CNI	20.1	20.0	20.1	0.5%	0.0%
CPKC	18.5	19.0	18.3	-2.6%	1.1%
CSX	17.5	18.0	15.1	-2.8%	15.9%
NSC	19.5	19.3	18.2	1.0%	7.1%
UNP	24.5	24.3	24.4	0.8%	0.4%
BNSF (1)	25.9	26.4	25.0	-1.9%	3.6%
Average	20.0	20.1	19.2	-0.5%	4.2%

% Seq Chg	% y-y Chg
Slower	Faster
-0.5%	4.2%

	2023	2023	2022		
(no. of cars)	Week 23	Week 22	Week 23	% Seq Chg	% y-y Chg
CNI	73,286	73,267	81,394	0.0%	-10.0%
CPKC	88,441	86,527	87,321	2.2%	1.3%
CSX	126,206	125,729	143,428	0.4%	-12.0%
NSC	171,026	172,122	174,216	-0.6%	-1.8%
UNP	305,937	305,916	296,216	0.0%	3.3%
BNSF (1)	247,160	246,328	257,505	0.3%	-4.0%
Average	152,979	152,712	156,515	0.2%	-2.3%

Worse	Better
0.2%	-2.3%

Terminal Dwell Time (lower is better)

	2023	2023	2022		
(time in hours)	Week 23	Week 22	Week 23	% Seq Chg	% y-y Chg
CNI	6.7	6.8	7.1	-1.5%	-5.6%
CPKC	11.4	11.5	9.8	-0.9%	16.3%
CSX	9.1	9.4	12.1	-3.2%	-24.8%
NSC	24.9	26.9	26.3	-7.4%	-5.3%
UNP	22.8	23.1	22.9	-1.3%	-0.4%
BNSF (1)	25.9	25.5	27.4	1.6%	-5.5%
Average	15	16	15.6	-3.6%	-4.2%

Better -3.6%

Better -4.2%

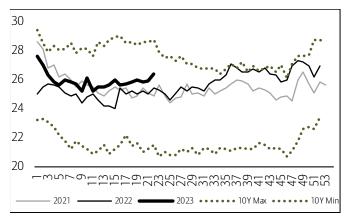
Source: BofA Global Research, company reports

^{(1):} Due the BNSF reporting schedule the reported data is delayed by one week and not included on the averages.

Weekly Rail Velocity Monitor

Exhibit 57: BNSF Velocity

BNSF velocity was 25.9 mph for week 22

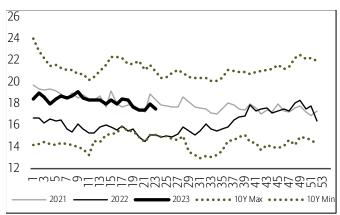


Source: Company reports, and Association of American Railroads.

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Exhibit 59: CSX Velocity

CSX velocity was 17.5 mph for week 23

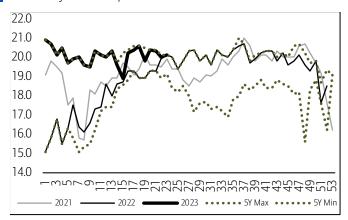


Source: Company reports, and Association of American Railroads.

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Exhibit 61: Canadian National Velocity

CNI velocity was 20.1 mph for week 23



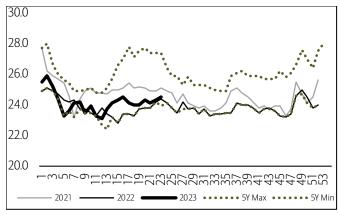
Source: Company reports, and Association of American Railroads.

CNI restated performance metrics, historical data available from 2017

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Exhibit 58: Union Pacific Velocity

UNP velocity was 24.5 mph for week 23



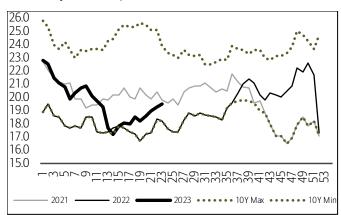
Source: Company reports, and Association of American Railroads.

UNP restated performance metrics, historical data available from 03/24/17

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Exhibit 60: Norfolk Southern Velocity

NSC velocity was 19.5 mph for week 23

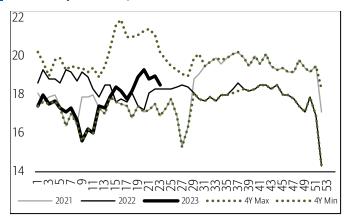


Source: Company reports, and Association of American Railroads.

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Exhibit 62: Canadian Pacific Kansas City Velocity

CPKC velocity was 18.5 mph for week 23



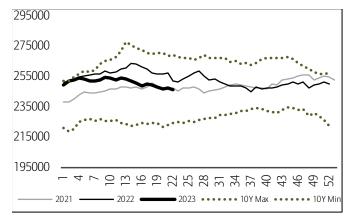
Source: Company reports, and Association of American Railroads. CPKC restated performance metrics, historical data available from 2020



Weekly Cars On-Line Monitor

Exhibit 63: BNSF Cars-On-Line

BNSF cars on line were 247,160 for week 22

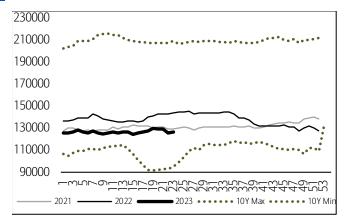


Source: Company reports, and Association of American Railroads.

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Exhibit 65: CSX Cars-On-Line

CSX cars on line were 126,206 for week 23

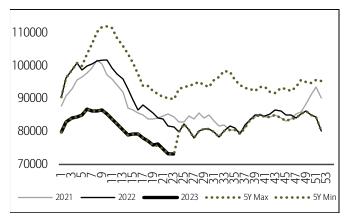


Source: Company reports, and Association of American Railroads.

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Exhibit 67: Canadian National Cars-On-Line

CNI cars on line were 73,286 for week 23



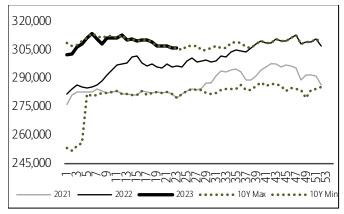
Source: Company reports, and Association of American Railroads.

CNI restated performance metrics, historical data available from 2017

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Exhibit 64: Union Pacific Cars-On-Line

UNP cars on line were 305,937 for week 23



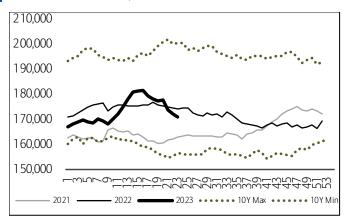
Source: Company reports, and Association of American Railroads.

UNP restated performance metrics, historical data available from 03/24/17

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Exhibit 66: Norfolk Southern Cars-On-Line

NSC cars on line were 171,026 for week 23

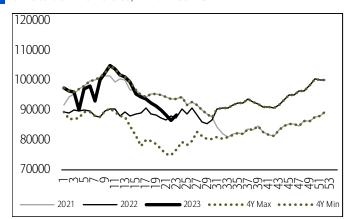


Source: Company reports, and Association of American Railroads.

BofA GLOBAL RESEARCH

Exhibit 68: Canadian Pacific Kansas City Cars-On-Line

CPKC cars on line were 88,441 for week 23



Source: Company reports, and Association of American Railroads.

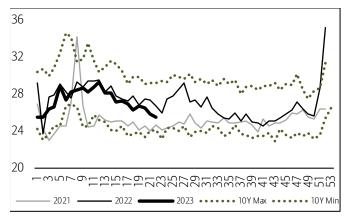
CPKC restated performance metrics, historical data available from 2020



Weekly Dwell Time Monitor

Exhibit 69: BNSF Dwell Time

BNSF dwell time was 25.9 hrs for week 22

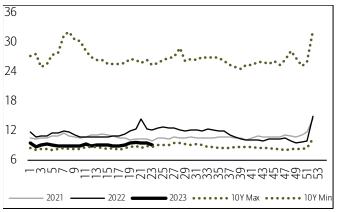


Source: Company reports, and Association of American Railroads.

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Exhibit 71: CSX Dwell Time

CSX dwell time was $9.1\,hrs$ for week $23\,$

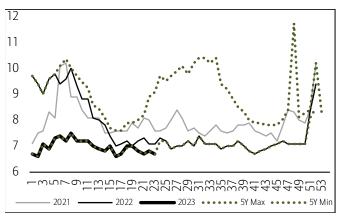


Source: Company reports, and Association of American Railroads.

BofA GLOBAL RESEARCH

Exhibit 73: Canadian National Dwell Time

CNI dwell time was 6.7 hrs for week 23



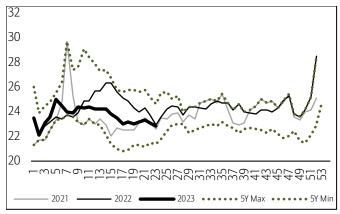
 $\textbf{Source:} \ \ \text{Company reports, and Association of American Railroads.}$

CNI restated performance metrics, historical data available from 2017

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Exhibit 70: Union Pacific Dwell Time

UNP dwell time was 22.8 hrs for week 23



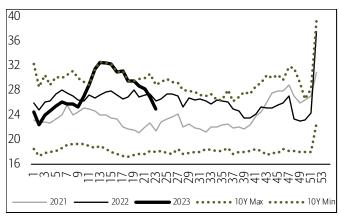
Source: Company reports, and Association of American Railroads.

UNP restated performance metrics, historical data available from 03/24/17

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Exhibit 72: Norfolk Southern Dwell Time

NSC dwell time was 24.9 hrs for week 23

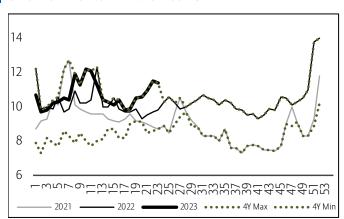


Source: Company reports, and Association of American Railroads.

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Exhibit 74: Canadian Pacific Kansas City Dwell Time

CPKC dwell time was 11.4 hrs for week 23



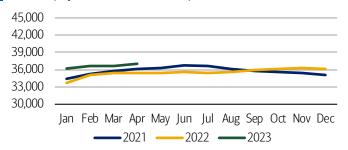
Source: Company reports, and Association of American Railroads. CPKC restated performance metrics, historical data available from 2020



Monthly Railroad employment data

Exhibit 75: BNSF US labor data

BNSF employment was +4.4% Y-Y in Apr 2023

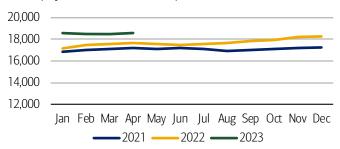


Source: STB

BofA GLOBAL RESEARCH

Exhibit 77: CSX US labor data

CSX employment was +5.2% Y-Y in Apr 2023

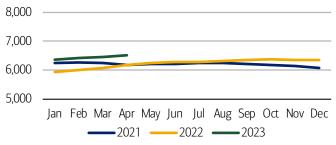


Source: STB

BofA GLOBAL RESEARCH

Exhibit 79: CN US labor data

CN employment was +5.7% Y-Y in Apr 2023

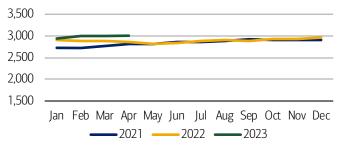


Source: STB

BofA GLOBAL RESEARCH

Exhibit 81: KSU US labor data

KSU employment was +4.8% Y-Y in Apr 2023

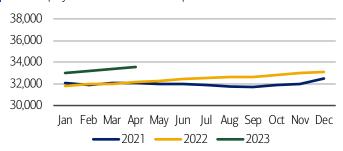


Source: STB

BofA GLOBAL RESEARCH

Exhibit 76: UNP US labor data

UNP employment was +4.4% Y-Y in Apr 2023

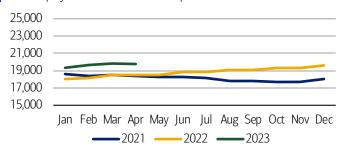


Source: STB

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Exhibit 78: NSC US labor data

NSC employment was +7.0% Y-Y in Apr 2023

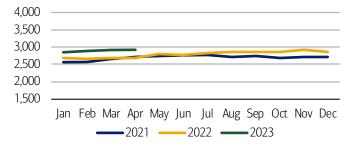


Source: STB

BofA GLOBAL RESEARCH

Exhibit 80: CP US labor data

CP employment was +8.9% Y-Y in Apr 2023



Source: STB

BofA GLOBAL RESEARCH

Exhibit 82: STB quarter to date data vs BofAe labor estimates

Data as of April 2023

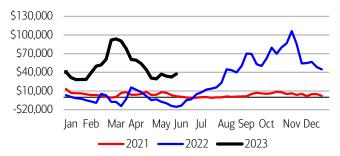
2023	2Q #	2Q %	BofAe	Diff	2Q Vols e
UNP	33,559	3.9%	3.0%	0.9%	-0.6%
CSX	18,574	5.7%	6.6%	-0.9%	-1.3%
NSC	19,794	6.3%	5.0%	1.3%	-4.9%
CN	6,518	4.5%	6.9%	-2.4%	-8.9%
CP	2,923	6.3%	4.1%	2.2%	5.0%
KSH	3.005	5.8%	_		_

Source: STB, BofA Global Research estimates

Weekly Shipping Rates

Exhibit 83: VLCC Spot Rates

VLCC Spot Rates at \$37,234 as of 6/09/2023

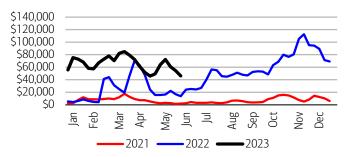


Source: BofA Global Research and Clarksons

BofA GLOBAL RESEARCH

Exhibit 85: Suezmax Spot Rates

Suezmax Spot Rates at \$46,034 as of 6/09/2023

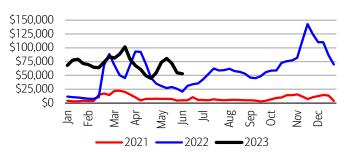


Source: BofA Global Research and Clarksons

BofA GLOBAL RESEARCH

Exhibit 87: Aframax Spot Rates

Aframax Spot Rates at \$53,000 as of 6/09/2023

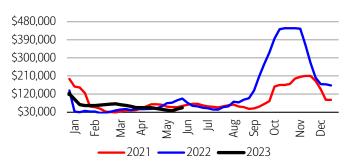


Source: BofA Global Research and Clarksons

BofA GLOBAL RESEARCH

Exhibit 89: LNG TFDE Spot Rates

LNG TFDE Spot Rates at \$51,250 as of 6/09/2023

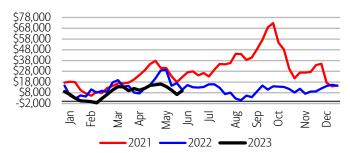


Source: BofA Global Research and Clarksons

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Exhibit 84: Capesize spot Rates

Capesize Spot rates at \$9,821 as of 6/09/2023

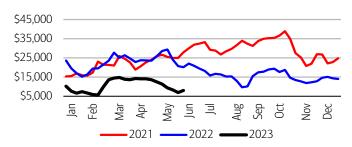


Source: BofA Global Research and Clarksons

BofA GLOBAL RESEARCH

Exhibit 86: Panamax Spot Rates

Panamax Spot Rates at \$8,003 as of 6/09/2023

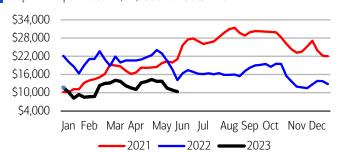


Source: BofA Global Research and Clarksons

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Exhibit 88: Supramax Spot Rates

Supramax Spot Rates at \$10,358 as of 6/09/2023



Source: BofA Global Research and Clarksons

BofA GLOBAL RESEARCH

Exhibit 90: Yearly and Quarterly Gas Carrier Rate Data

LNG Carrier Rate is down 2QTD & down YTD

Gas Carrier	2QTD	2023 YTD	Orderbook
	Average	Avg.	% of Fleet
LNG TFDE	\$47,100	\$60,924	76%
% chg. Y-Y	-26%	-54%	

Source: Clarkson

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24

Exhibit 91: Yearly and Quarterly Tanker Rate Data

Tanker Rates are up 2QTD & YTD

	2QTD	2023 YTD	Orderbook
Tanker	Average	Avg.	% of Fleet
VLCC	\$41,928	\$49,190	2%
% chg. Y-Y	1485%	106%	
Suezmax	\$57,795	\$65,208	5%
% chg. Y-Y	98%	47%	
Aframax	\$61,156	\$70,236	11%
% chg. Y-Y	39%	25%	

Source: Clarkson

BofA GLOBAL RESEARCH

Exhibit 93: Baltic Dry Index

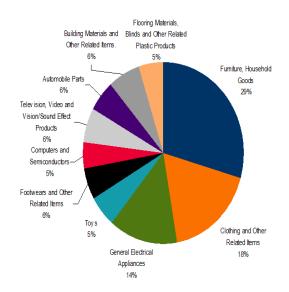
Baltic Dry Index is at \$1,055 as of 6/09/2023



Source: Bloomberg

BofA GLOBAL RESEARCH

Exhibit 95: Container Breakdown by Commodity Furniture, Household & Goods represents almost 30%



Source: OOCL, BofA Global Research estimates

Exhibit 92: Yearly and Quarterly Dry Bulk Rate Data

Dry Bulk Rates are down 2QTD & YTD

Dry Bulk	2QTD Average	2023 YTD Avg.	Orderbook % of Fleet
Capesize	\$12,167	\$8,532	5%
% chg. Y-Y	-23%	-28%	
Panamax	\$11,245	\$10,551	9%
% chg. Y-Y	-52%	-44%	
Supramax	\$12,425	\$11,676	8%
% chg. Y-Y	-37%	-35%	

Source: Clarkson

BofA GLOBAL RESEARCH

Exhibit 94: Shipping Rates

Shipping Rates are mixed year over year

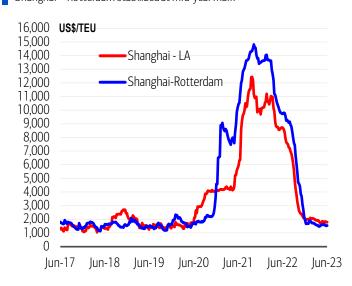
	Current Wk 06/09/23	Prior Wk 06/02/23	YOY Wk 06/10/22	•	YOY % Change
Vessel Type					
VLCC	\$37,234	\$32,424	-\$15,466	14.8%	340.7%
Suezmax	\$46,034	\$54,429	\$13,675	-15.4%	236.6%
Aframax	\$53,000	\$54,843	\$20,623	-3.4%	157.0%
LNG TFDE	\$51,250	\$45,000	\$76,750	13.9%	-33.2%
Baltic Dry Index	1,055	919	2,342	14.8%	-55.0%

Source: Bloomberg and Clarkson

BofA GLOBAL RESEARCH

Exhibit 96: Container Rates – Shanghai Containerized Freight Index (SCFI)

 $Shanghai-Rotterdam\,stabilized\,at\,mid-year\,mark$



Source: Chinese Shipping, and BofA Global Research

Exhibit 97: Railroads Comp Sheet

Data as of 6/14/2023

									EP	S										
		Investor Opinion	Share	Shares Out.	Mkt Cap	Net Debt	EV	BofA	BofA	BofA	Cons.	Fo	orward F	P/E	EB	ITDA (\$	bil)	Forwa	rd EV/E	BITDA
Company	Ticker		Price	(mil.)	(\$ bil.)	(\$ bil.)	(\$ bil.)	2021a	2022a	2023e	2023e	2021a	2022a	2023e	2021a	2022a	2023e	2021a	2022a	2023e
Canadian Nationa	I CNI	B-1-7	\$116.61	663	\$77.3	\$11.2	\$88.5	\$4.71	\$5.75	\$5.95	\$5.91	24.8x	20.3x	19.6x	\$5.73	\$6.61	\$6.74	15.5x	13.4x	13.1x
Canadian Pacific	CP	B-1-7	\$77.69	931	\$72.3	\$14.7	\$87.0	\$2.97	\$2.89	\$3.18	\$3.19	26.2x	26.9x	24.4x	\$3.33	\$3.26	\$3.63	26.1x	26.7x	24.0x
CSX Corporation	CSX	B-1-7	\$33.09	2,033	\$67.3	\$16.0	\$83.2	\$1.56	\$1.91	\$1.95	\$1.93	21.2x	17.3x	17.0x	\$6.67	\$7.42	\$7.41	12.5x	11.2x	11.2x
Norfolk Southern	NSC	B-1-7	\$221.40	228	\$50.4	\$14.7	\$65.1	\$12.11	\$13.60	\$13.30	\$13.19	18.3x	16.3x	16.6x	\$5.63	\$6.12	\$5.87	11.6x	10.6x	11.1x
Union Pacific	UNP	B-1-7	\$202.74	610	\$123.6	\$32.3	\$155.9	\$9.95	\$11.23	\$11.10	\$11.25	20.4x	18.1x	18.3x	\$11.55	\$12.26	\$12.15	13.5x	12.7x	12.8x
												22.2x	19.8x	19.2x				15.8x	14.9x	14.5x

	2023	Q2EPS						Reve	nue	2022Q4	Net	DOIG							
	e	st.	Δ to	ı	EPS Grov	wth	YoY	Grov	vth	Op.	Debt/	ROIC	Total Re	eturn (v	v/reinves	sted divi	den ds)	Divid	dend
Company	BofA	Cons.	Street	1yr	3yr	5yr	2Q2023	1yr	5yr	Ratio	EBITDA	1yr	1 week	YTD	1yr	3yr	5yr	Annual	Yield
Canadian National	\$1.42	\$1.47	-3%	32%	11%	14%	18%	21%	6%	58%	1.8x	9.6%	0%	-1%	10%	12%	9%	\$3.14	2.0%
Canadian Pacific	\$0.82	\$0.78	5%	-15%	8%	17%	65%	56%	17%	58%	3.2x	12.1%	-2%	4%	14%	16%	16%	\$0.76	0.7%
CSX Corporation	\$0.52	\$0.49	5%	23%	88%	14%	19%	15%	6%	61%	2.2x	9.3%	2%	8%	14%	14%	10%	\$0.44	1.3%
Norfolk Southern	\$3.17	\$3.22	-2%	5%	15%	10%	14%	14%	3%	62%	2.5x	7.6%	1%	-9%	2%	10%	10%	\$5.40	2.4%
Union Pacific	\$2.74	\$2.78	-1%	9%	11%	10%	14%	11%	2%	61%	2.8x	10.5%	1%	-1%	0%	9%	9%	\$5.20	2.6%
										60%	2.5x	10%	0%	0%	80%	12%	11%		

Source: BofA Global Research estimates, Company reports, Bloomberg (for stocks not covered by BofA Global Research)

BofA GLOBAL RESEARCH

Exhibit 98: Intermodal/Container Lessors Comp Sheet

Data as of 6/14/2023

									EP	S										
		Investor	Share	Shares Out.	Mkt Cap	Net Debt	EV	BofA	BofA	BofA	Cons	F	orward F	P/E	E	BITDA (\$	bil)	Forwa	ard EV/E	BITDA
Company	Ticker	Opinion	Price	(mil.)	(\$ bil.)	(\$ bil.)	(\$ bil.)	2021a	2022a	2023e	2023e	2021a	2022a	2023e	2021a	2022a	2023e	2021a	2022a	2023e
J.B. Hunt																				
Transp.	JBHT	B-1-7	\$174.39	104	\$18.1	\$1.2	\$19.3	\$7.14	\$9.79	\$8.25	\$8.40	24.4x	17.8x	21.1x	\$1.60	\$2.06	\$1.91	12.0x	9.4x	10.1x
Triton Int'l Ltd	TRTN	RSTR	\$82.97		\$4.6															
Textainer Group	TGH	n/a	\$39.53	42	\$1.7	\$5.1	\$6.7	n/a	\$6.13	n/a	\$4.88	7.2x	6.4x	8.1x	\$0.69	\$0.75	\$0.67	9.8x	9.0x	10.1x
Hub Group Inc	HUBG	n/a	\$79.25	33	\$2.6	\$0.2	\$2.8	n/a	\$10.55	n/a	\$6.39	19.8x	7.5x	12.4x	\$0.32	\$0.62	\$0.45	8.9x	4.5x	6.2x
												17.2x	10.6x	13.9x				10.2x	7.6x	8.8x
		2023Q2EPS	;				Revenue	2022Q4	Net		ROIC									
		est.	Δ to	EPS Gro	wth	YoY	Growth	Op.	Debt/		KUIC		Total	Return ((w/rein ve	ested div	iden ds)		Divi	iden d
_			_	_	_										_	_	_			

	est. Δ to EPS Growth		vth	YoY	Grov	wth	Op.	Debt/	ROIC	Total F	eturn (w/rein ve	sted div	iden ds)	Divid	lend			
Company	BofA	Cons.	Street	1yr	3yr	5yr	2Q2023	1yr	5yr	Ratio	EBITDA	1yr	1 week	YTD	1yr	3yr	5yr	Annual	Yield
J.B. Hunt																			
Transp.	\$1.94	\$2.02	-4%	12%	26%	16%	22%	12%	11%	91%	0.6x	12%	-1%	0%	9%	16%	7%	\$1.68	1.0%
Triton Int'l Ltd													0%	23%	55%	46%	25%		
Textainer Group	n/a	\$1.21		22%	118%		7%	0%	9%	50%	6.8x	6%	1%	30%	37%	69%	20%	\$1.20	3.0%
Hub Group Inc	n/a	\$1.42		43%	70%	81%	26%	13%	8%	93%	0.3x	18%	2%	0%	8%	20%	9%		
										78%	2.6x	12%	1%	13%	27%	38%	15%		

Source: BofA Global Research estimates, Company reports, Bloomberg (for stocks not covered by BofA Global Research)

BofA GLOBAL RESEARCH

Exhibit 99: Less-than-Truckload (LTL) Comp Sheet

Data as of 6/14/2023

									EP	S										
		Investor	Share	Shares Out.	Mkt Cap	Net Debt	EV	BofA	BofA	BofA	Cons.	ı	orward	P/E	EB	ITDA (\$	bil)	Forw	ard EV/E	:BITDA
Company	Ticker	Opinion	Price	_(mil.)	(\$ bil.)	(\$ bil.)	(\$ bil.)	2021a	2022a	2023e	2023e	2021a	2022a	2023e	2021a	2022a	2023e	2021a	2022a	2023e
Arcbest Corp	ARCB	C-3-7	\$89.15	24	\$2.1	\$0.1	\$2.3	\$8.11	\$13.63	\$7.50	\$7.90	11.0x	6.5x	11.9x	\$0.41	\$0.58	\$0.36	5.6x	3.9x	6.2x
Old Dominion	ODFL	B-2-7	\$320.72	110	\$35.2	(\$0.1)	\$35.0	\$8.89	\$12.18	\$11.25	\$10.87	36.1x	26.3x	28.5x	\$1.65	\$2.10	\$1.96	21.2x	16.7x	17.8x
Saia Inc	SAIA	B-2-9	\$313.35	27	\$8.3	\$0.0	\$8.3	\$9.48	\$13.40	\$12.70	\$12.18	33.1x	23.4x	24.7x	\$0.48	\$0.63	\$0.62	17.4x	13.2x	13.3x
TFI Int'l	TFII	B-2-7	\$105.99	87	\$9.2	\$1.5	\$10.7	\$5.23	\$8.02	\$7.15	\$7.03	20.3x	13.2x	14.8x	\$0.70	\$1.13	\$0.90	15.2x	9.4x	11.9x
XPO, Inc.	XPO	C-2-9	\$51.36	116	\$6.0	\$3.0	\$8.9	\$1.94	\$3.53	\$2.40	\$2.44	26.5x	14.5x	21.4x	\$0.90	\$0.66	\$0.58	9.9x	13.5x	15.3x
Yellow Corp	YELL	n/a	\$1.70	52	\$0.1	\$1.5	\$1.6	-\$1.39	\$0.75	-\$2.79	(\$2.79)		2.3x		\$0.26	\$0.35	\$0.19	5.9x	4.4x	8.2x
												25.4x	14.4x	20.3x	_			12.5x	10.2x	12 1x

											ZJ.¬	A 17.7A	20.57				12.3/ 10.2/	12.17
	2023Q2EPS est. Δ to EPS Growth BofA Cons. Street 1yr 3yr 5yr					YoY	Gro	enue owth		Net Debt/	ROIC			w/rein ve:	_	_		dend
Company	BotA Cons.	Street	lyr	3yr	5yr	2Q2023	1yr	5yr	Ratio	EBITDA	1 yr	1 week	YTD	1 yr	3yr	5yr	Annual	Yield
Arcbest Corp	\$2.06 \$2.06	0%	8%	108%	262%	34%	15%	12%	93%	0.2x	7.2%	2%	28%	20%	57%	14%	\$0.48	0.5%
Old Dominion	\$2.73 \$2.70	1%	24%	35%	26%	19%	10%	10%	71%	-0.1x	18.7%	1%	13%	35%	27%	25%	\$1.60	0.5%
Saia Inc	\$3.28 \$3.24	1%	22%	48%	34%	22%	13%	12%	86%	0.0x	11.9%	4%	49%	72%	44%	30%		
TFI Int'l	\$1.88 \$1.84	2%	26%	62%	36%	22%	3%	24%	90%	1.0x	10.9%	-3%	6%	42%	50%		\$1.40	1.3%
XPO, Inc.	\$0.64 \$0.64	-1%	38%	86%	99%	7%	5%	-9%	91%	2.7x		4%	54%	81%	26%	6%		
Yellow Corp	n/a (\$0.61)		0%	n/a	n/a	2%	-1%	-1%	101%	3.6x	12.2%	4%	-32%	-50%	-3%	-31%		
									000/	1.2	12.20/	20/	200/	220/	2.40/	00/		

Source: BofA Global Research estimates, Company reports, Bloomberg (for stocks not covered by BofA Research)



Exhibit 100: Airfreight Comp Sheet

Data as of 6/14/2023

			C1	-			D/	D (4	- C		_	_		/ =		TDA (6.1	•••	-	L =1/ED	ITDA
			Share	Snare Out.	мкт Сар	Net Debt	EV	BofA	BofA	BofA	Cons.	r	orward P	/E	EB	ITDA (\$ b	II)	Forwar	d EV/EB	IIDA
Company	Company Ticker Opinion Price (mil.) (\$ bil.) (\$ bil.)							2021-	20222	20220	20220	20212	20222	20220	2021a	20222	2023e	20212	20222	2023e
Company	ncker						(\$ bil.)						2022a	20236				2021a	2022a	2023e
Fedex Corp	FDX	B-1-7	\$229.67	251	\$57.7	\$15.6	\$73.3	\$18.19	\$14.90	\$18.45	\$14.87	12.6x	15.4x	12.4x	\$9.98	\$10.84	\$9.42	7.4x	6.8x	7.8x
United Parcel-B	UPS	B-2-7	\$174.88	725	\$150.2	\$14.1	\$164.3	\$12.13	\$12.95	\$10.65	\$10.74	14.4x	13.5x	16.4x	\$16.10	\$16.97	\$15.51	10.2x	9.7x	10.6x
												13.5x	14.5x	14.4x	-			8.8x	8.2x	9.2x
		202302FP	ς				Rovenue	202204	l Not											

	est.	Δto	E	PS Grov	wth	YoY	Gro		2022Q. Op.	Debt/	ROIC	Total	Return (w/rein ves	ted divide	ends)	Dividend
Company	BofA Cons.	Street	1yr	3yr	5yr	2Q2023	1yr	5yr	Ratio	EBITDA	1yr	1 week	YTD	1yr	3yr	5yr	Annual Yield
Fedex Corp	\$4.89 \$4.87	0%	-10%	138%	11%	11%	1%	6%	95%	3.5x	5%	3%	34%	3%	22%	-1%	\$5.04 2.2%
UPS	\$2.48 \$2.53	-2%	-3%	257%	58%	3%	0%	7%	86%	1.0x	15%	2%	2%	4%	23%	12%	\$6.48 3.7%
									90%	2.2x	10%	2%	18%	3%	23%	5%	

Source: BofA Global Research estimates, Company reports, Bloomberg.

BofA GLOBAL RESEARCH

Exhibit 101: Truckload Carriers Comp Sheet

Data as of 6/14/2023

										EPS											
		Investor	Share	Shares Out.	Mkt Cap	Net Debt	EV	I	BofA	BofA	BofA	Cons.	Fo	orward P	/E	EBITI	DA (\$	bil)	Forwa	rd EV/E	BITDA
Company	Ticker	Opinion	Price	(mil.)	(\$ bil.)	(\$ bil.)	(\$ bil.)	2	021a	2022a	2023e	2023e	2021a	2022a	2023e	2021a2	022a	2023e	2021a	2022a	2023e
Knight Transportation	KNX	B-1-7	\$56.00	161	\$9.0	\$1.7	\$10.7		54.72	\$5.10	\$3.40	\$3.31	11.9x	11.0x	16.5x	\$1.55	\$1.77	\$1.43	6.9x	6.0x	7.5x
Schneider National	SNDR	B-1-7	\$27.01	95	\$4.8	(\$0.2)	\$4.6	9	52.29	\$2.63	\$2.05	\$2.05	11.8x	10.3x	13.2x	\$0.83	\$0.97	\$0.85	5.6x	4.8x	5.5x
US Xpress Enterprises	USX	n/a	\$6.11	41	\$0.3	\$0.5	\$0.8	9	50.16	-\$0.63	-\$0.50	-\$1.55	38.2x			\$0.10	\$0.06	\$0.09	7.6x	13.1x	9.2x
Werner Enterprises	WERN	B-1-7	\$43.79	63	\$2.8	\$0.6	\$3.4	9	3.46	\$3.71	\$2.55	\$2.76	12.7x	11.8x	17.2x	\$0.58	\$0.61	\$0.53	5.8x	5.5x	6.3x
Covenant Transport	CVLG	n/a	\$39.50	11	\$0.5	\$0.1	\$0.6		n/a	n/a	n/a	\$4.05	11.0x	6.7x	9.8x	\$0.12	\$0.15	\$0.11	5.1x	4.2x	5.6x
Heartland Express	HTLD	n/a	\$16.32	79	\$1.3	\$0.3	\$1.6		n/a	n/a	n/a	\$0.81	16.4x	11.6x	20.2x	\$0.21	\$0.25	\$0.30	7.7x	6.4x	5.4x
Marten Transport	MRTN	n/a	\$22.24	81	\$1.8	(\$0.1)	\$1.7		n/a	n/a	n/a	\$1.22	22.4x	16.7x	18.3x	\$0.22	\$0.25	\$0.25	7.9x	6.8x	6.9x
Pam Transport	PTSI	n/a	\$27.15	22	\$0.6	\$0.1	\$0.7		n/a	n/a	n/a	\$2.55	8.8x	6.2x	10.6x	\$0.15	\$0.20	\$0.15	4.7x	3.7x	4.7x
Universal Logistics	ULH	n/a	\$29.97	26	\$0.8	\$0.4	\$1.2		n/a	n/a	n/a	n/a	11.4x	4.6x		\$0.19	\$0.32		6.4x	3.7x	

	2023Q2EPS						Rev	enue	2022Q4	l .	ROIC	Tota	l Retur	ı (w/rei	nveste	d			
	e	st.	Δ to	E	PS Grov	vth	YoY	Gro	wth	Op.	Net Debt/	RUIC		divi	iden ds)			Divid	
Company	BofA	Cons.	Street	1yr	3yr	5yr	2Q2023	1yr	5yr	Ratio	EBITDA	<u> 1yr </u>	1 week	YTD	1yr	3yr	5yr	Annual	Yield
Knight Transportation	\$0.77	\$0.77	1%	-17%	42%	25%	24%	10%	7%	87%	1.1x	6.1%	-3%	7%	25%	14%	7%	\$0.56	1.0%
Schneider National	\$0.47	\$0.46	2%	15%	49%	19%	18%	7%	6%	91%	-0.2x	7.0%	0%	16%	21%	11%	2%	\$0.36	1.3%
US Xpress Enterprises	(\$0.18)		0%				11%	6%	3%	101%	5.8x	3.8%	0%	238%	120%	4%	-18%		
Werner Enterprises	\$0.58	\$0.64	-9%	-11%	19%	19%	20%	16%	8%	90%	1.0x	9.6%	-4%	9%	15%	4%	6%	\$0.56	1.3%
Covenant Transport	n/a	\$0.99		14%			16%	7%	10%	93%	0.0x	15.6%	-4%	15%	75%	48%	4%	\$0.44	1.1%
Heartland Express	n/a	\$0.19		-1%	27%	3%	59%	89%	24%	93%	0.9x	12.0%	-1%	7%	19%	-5%	-2%	\$0.08	0.5%
Marten Transport	n/a	\$0.30		20%	22%	20%	30%	23%	10%	90%	-0.4x	13.5%	0%	13%	30%	15%	11%	\$0.24	1.1%
Pam Transport	n/a	\$0.65		-7%	162%		34%	22%	14%	96%	0.7x	15.6%	-5%	5%	-2%	53%	21%		
Universal Logistics	n/a	n/a		62%	73%	34%	15%	4%	6%	91%	1.2x	18.6%	2%	-10%	9%	27%	5%	\$0.42	1.4%
										92%	1.1x	11%	-2%	33%	35%	19%	4%		

Source: BofA Global Research estimates, Company reports, Bloomberg (for stocks not covered by BofA Global Research).

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Exhibit 102: Freight Forwarding Comp Sheet

Data as of 6/14/2023

									EP	S										
		Investor	Share	Shares Out.	Mkt Cap	Net Debt	: EV	BofA	BofA	BofA	Cons.	Fo	orward	P/E	EBI	TDA (\$	bil)	Forw	ard EV/EB	BITDA
Company	Ticker	Opinion	Price	(mil.)	(\$ bil.)	(\$ bil.)	(\$ bil.)	2021a	2022a	2023e	2023e	2021a	2022a	2023e	2021a	2022a	2023e	2021a	2022a	2023e
CH Robinson	CHRW	B-3-7	\$94.61	116	\$11.0	\$1.8	\$12.8	\$6.29	\$7.50	\$4.15	\$4.11	15.0x	12.6x	22.8x	\$1.17	\$1.4	\$0.81	10.9x	9.3x	15.8x
RXO Inc	RXO	C-1-9	\$21.81	117	\$2.6	\$0.4	\$2.9	\$1.48	\$1.56	\$0.85	\$0.62	14.7x	14.0x	25.7x	\$0.26	\$0.3	\$0.44	11.2x	9.7x	6.6x
World Fuel Svcs	INT	B-1-7	\$24.09	62	\$1.5	\$0.5	\$2.0	\$1.36	\$2.04	\$2.15	\$2.17	17.7x	11.8x	11.2x	\$0.24	\$0.4	\$0.42	8.5x	5.3x	4.9x
Landstar System	LSTR	n/a	\$186.33	36	\$6.7	(\$0.2)	\$6.5	n/a	n/a	\$11.76	\$8.31	18.8x	15.8x	22.4x	\$0.55	\$0.6	\$0.45	11.7x	10.3x	14.3x
Expeditors Intl	EXPD	n/a	\$117.64	153	\$18.0	(\$1.8)	\$16.1	n/a	n/a	\$8.83	\$5.43	15.3x	13.3x	21.7x	\$1.82	\$2.0	\$1.14	8.9x	8.2x	14.2x
Forward Air Corp	FWRD	n/a	\$104.05	26	\$2.7	\$0.3	\$3.0	n/a	n/a	\$14.24	\$5.71	24.9x	7.3x		\$0.20	\$0.3	\$0.27	15.4x	9.3x	11.1x
												17.7x	12.5x	20.8x	=			11.1x	8.7x	11.1x

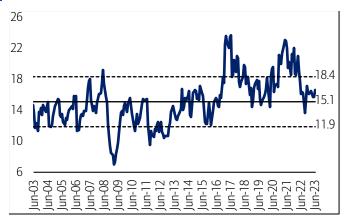
		_					_						20.07						
	2023Q2EP	5						enue	2022Q		ROIC								
	est.	Δ to	E	EPS Grow	<i>r</i> th	YoY	Gro	wth	Op.	Net Debt/	NOIC	Total Re	eturn (w	/rein ves	sted div	riden ds)		Divid	iend
Company	BofA Cons	. Street	1yr	3yr	5yr	2Q2023	1yr	5yr	Ratio	EBITDA	<u> 1yr </u>	1 week	YTD	1yr	3yr	5yr	An	nnual	Yield
CH Robinson	\$1.01 \$0.9	8 3%	-9%	26%	19%	7%	-10%	7%	96%	1.5x	23%	3%	5%	-9%	9%	3%	\$.	2.44	2.6%
RXO Inc	\$0.17 \$0.1	1 50%				2%			100%			-4%	27%						
World Fuel Svcs	\$0.44 \$0.5	0 -11%	35%	-4%	2%	88%	57%	14%	99%	1.3x	7%	-4%	-11%	3%	0%	3%	\$	0.56	2.3%
Landstar System	n/a \$1.8	9	-7%	35%	21%	14%	-4%	11%	93%	-0.4x	38%	-1%	16%	31%	23%	12%	\$	1.20	0.6%
Expeditors Intl	n/a \$1.3	9	-12%	41%	24%	3%	-17%	15%	89%	-1.1x	35%	1%	14%	21%	18%	10%	\$	1.38	1.2%
Forward Air Corp	n/a \$1.3	0	33%	124%	53%	19%	9%	8%	88%	0.7x	20%	0%	0%	16%	31%	12%	\$1	0.96	0.9%
									94%	0.4x	25%	- 1%	8%	12%	16%	8%			

Source: BofA Global Research estimates, Company reports, Bloomberg (for stocks not covered by BofA Research)



Exhibit 103: CSX forward P/E

CSX Forward P/E is 17.0x

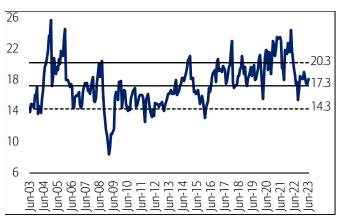


Source: BofA Global Research estimates, company reports, Bloomberg, Reuters, First Call, Factset.

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Exhibit 105: UNP forward P/E

UNP Forward P/E is 18.3x

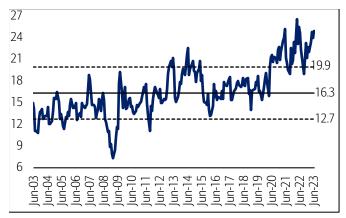


Source: BofA Global Research estimates, company reports, Bloomberg, Reuters, First Call, Factset.

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Exhibit 107: CP forward P/E

CP Forward P/E is 24.4x

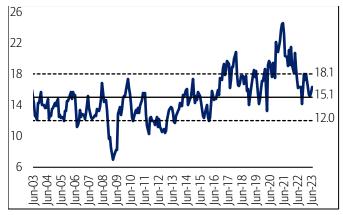


Source: BofA Global Research estimates, company reports, Bloomberg, Reuters, First Call, Factset.

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Exhibit 104: NSC forward P/E

NSC Forward P/E is 16.6x

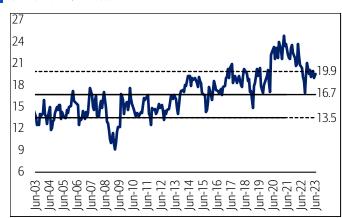


Source: BofA Global Research estimates, company reports, Bloomberg, Reuters, First Call, Factset.

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Exhibit 106: CNI forward P/E

CNI Forward P/E is 19.6x

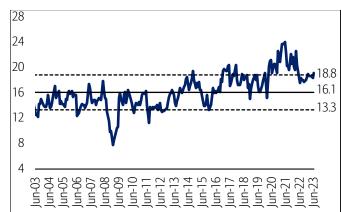


Source: BofA Global Research estimates, company reports, Bloomberg, Reuters, First Call, Factset.

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Exhibit 108: Rails Average forward P/E

Rails Average Forward P/E is 19.2x



Source: BofA Global Research estimates, company reports, Bloomberg, Reuters, First Call, Factset.

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Exhibit 109: SAIA forward P/E

SAIA Forward P/E is 24.7x

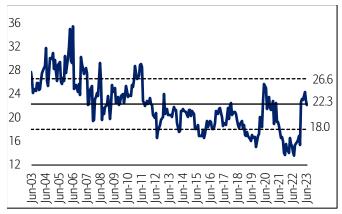


Source: BofA Global Research estimates, company reports, Bloomberg, Reuters, First Call, Factset.

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Exhibit 111: CHRW forward P/E

CHRW Forward P/E is 22.8x

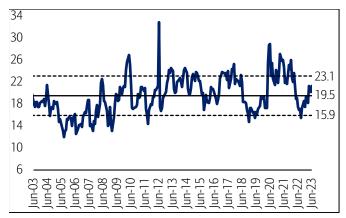


Source: BofA Global Research estimates, company reports, Bloomberg, Reuters, First Call, Factset.

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Exhibit 113: JBHT forward P/E

JBHT Forward P/E is 21.1x

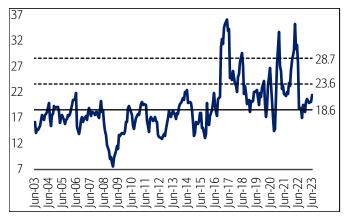


Source: BofA Global Research estimates, company reports, Bloomberg, Reuters, First Call, Factset.

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Exhibit 110: KEX forward P/E

KEX Forward P/E is 21.1x

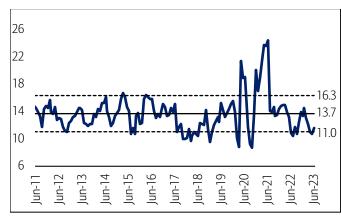


Source: BofA Global Research estimates, company reports, Bloomberg, Reuters, First Call, Factset.

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Exhibit 112: INT forward P/E

INT Forward P/E is 11.2x

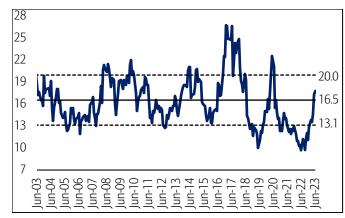


Source: BofA Global Research estimates, company reports, Bloomberg, Reuters, First Call, Factset.

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Exhibit 114: WERN forward P/E

WERN Forward P/E is 17.2x

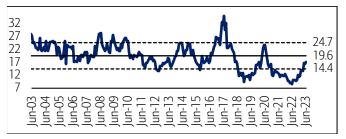


Source: BofA Global Research estimates, company reports, Bloomberg, Reuters, First Call, Factset.

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Exhibit 115: KNX forward P/E

KNX Forward P/E is 16.5x



Source: BofA Global Research estimates, company reports, Bloomberg, Reuters, First Call, Factset.

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Exhibit 117: TFII forward P/E

TFII Forward P/E is 14.8x

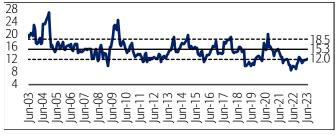


Source: BofA Global Research estimates, company reports, Bloomberg, Reuters, First Call, Factset.

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Exhibit 119: FDX forward P/E

FDX Forward P/E is 12.4x



Source: BofA Global Research estimates, company reports, Bloomberg, Reuters, First Call, Factset.

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Exhibit 116: SNDR forward P/E

SNDR Forward P/E is 13.2x



Source: BofA Global Research estimates, company reports, Bloomberg, Reuters, First Call, Factset.

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Exhibit 118: ODFL forward P/E

ODFL Forward P/E is 28.5x

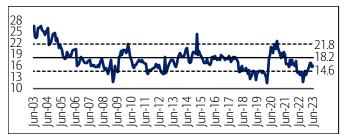


Source: BofA Global Research estimates, company reports, Bloomberg, Reuters, First Call, Factset.

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Exhibit 120: UPS forward P/E

UPS Forward P/E is 16.4x

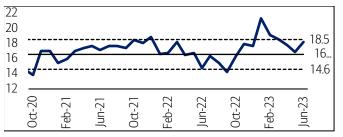


Source: BofA Global Research estimates, company reports, Bloomberg, Reuters, First Call, Factset.

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Exhibit 121: WAB forward P/E

WAB Forward P/E is 18.5x

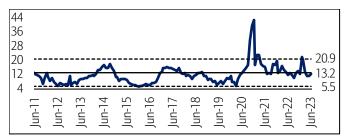


Source: BofA Global Research estimates, company reports, Bloomberg, Reuters, First Call, Factset.

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Exhibit 122: GBX forward P/E

GBX Forward P/E is 12.8x



Source: BofA Global Research estimates, company reports, Bloomberg, Reuters, First Call, Factset.

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Exhibit 123: Stocks mentioned

Rating and price summary

BofA TickerBloomberg tickerCompany namePriceRatingFDXFDX USFedEx Corp.US\$ 229.67B-1-7

Source: BofA Global Research



Price objective basis & risk

FedEx Corp. (FDX)

Our \$295 price objective is based on a 15.5x multiple on our F24 EPS estimate. Our target multiple is above the mid-point of its 20-year historical 12.5x-18.5x range as F23 appears to be trough as the company engages on a robust cost cutting program. We believe its cost cutting program is more credible given its tangible moves to reduce headcount and shed excess capacity.

Risks to our objective are slower-than-expected growth in the U.S. and global economy, increasing barriers to global trade (protectionism), a quick rise in fuel prices, increased volume and price competition, a return of union pressure on the company's Ground and Express employees, and renewed unionization moves at its Freight segment. Risks also are Congressional approval moving FedEx Express from the RLA to the NLRB and additional steps to classify Ground contractor drivers as employees. This pressure is occurring at the State level as well, given some legislative moves to declare all trucking and parcel contractors as employees. Additionally, domestic Express network restructuring could result in a service disruption, which could impact estimates. Also continued pressure on margins from growth of e-commerce volumes given its lower delivery density, or an unexpected deceleration in ecommerce growth. A rapidly deteriorating econ backdrop given rising inflation and interest rates.

Analyst Certification

I, Ken Hoexter, hereby certify that the views expressed in this research report accurately reflect my personal views about the subject securities and issuers. I also certify that no part of my compensation was, is, or will be, directly or indirectly, related to the specific recommendations or view expressed in this research report.



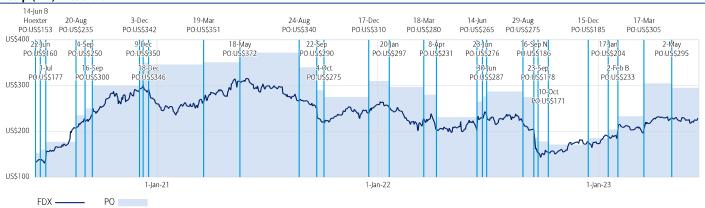
US - Transportation Coverage Cluster

Investment rating	Company	Bof A Ticker	Bloomberg symbol	Analyst
BUY				
	Canadian National	CNI	CNIUS	Ken Hoexter
	Canadian Pacific Kansas City Ltd	CP	CP US	Ken Hoexter
	CSX Corporation	CSX	CSX US	Ken Hoexter
	FedEx Corp.	FDX	FDX US	Ken Hoexter
	J.B. Hunt Transport Services	JBHT	JBHT US	Ken Hoexter
	Kirby Corp	KEX	KEX US	Ken Hoexter
	Knight-Swift Transportation Holdings Inc	KNX	KNX US	Ken Hoexter
	Norfolk Southern	NSC	NSC US	Ken Hoexter
	RXO, Inc.	RXO	RXO US	Ken Hoexter
	Schneider National	SNDR	SNDR US	Ken Hoexter
	Scorpio Tankers Inc.	STNG	STNG US	Ken Hoexter
	Union Pacific	UNP	UNP US	Ken Hoexter
	Werner Enterprises	WERN	WERN US	Ken Hoexter
	World Fuel Services	INT	INT US	Ken Hoexter
NEUTRAL				
	Old Dominion Freight Line	ODFL	ODFL US	Ken Hoexter
	Saia Inc.	SAIA	SAIA US	Ken Hoexter
	Teekay Tankers Limited	TNK	TNK US	Ken Hoexter
	TFI International	TFII	TFILUS	Ken Hoexter
	TFI International	YTFII	TFII CN	Ken Hoexter
	UPS	UPS	UPS US	Ken Hoexter
	Wabtec Corp.	WAB	WAB US	Ken Hoexter
	XPO, Inc.	XPO	XPO US	Ken Hoexter
UNDERPERFORM				
	ArcBest Corporation	ARCB	ARCB US	Ken Hoexter
	C.H. Robinson	CHRW	CHRW US	Ken Hoexter
	The Greenbrier Companies	GBX	GBX US	Ken Hoexter
	TuSimple	TSP	TSP US	Ken Hoexter
RSTR				
	Triton International, Ltd	TRTN	TRTN US	Ken Hoexter

Disclosures

Important Disclosures

FedEx Corp. (FDX) Price Chart



B: Buy, N: Neutral, U: Underperform, PO: Price Objective, NA: No longer valid, NR: No Rating

The Investment Opinion System is contained at the end of the report under the heading 'Fundamental Equity Opinion Key'. Dark grey shading indicates the security is restricted with the opinion suspended. Medium grey shading indicates the security is under review with the opinion withdrawn. Light grey shading indicates the security is not covered. Chart is current as of a date no more than one trading day prior to the date of the report.

Equity Investment Rating Distribution: Transport/Infrastructure Group (as of 31 Mar 2023)

Coverage Universe	Count	Percent	Inv. Banking Relationships R1	Count	Percent
Buy	68	51.52%	Buy	38	55.88%
Hold	28	21.21%	Hold	15	53.57%
Sell	36	27.27%	Sell	18	50.00%

Equity Investment Rating Distribution: Global Group (as of 31 Mar 2023)

Coverage Universe	Count	Percent	Inv. Banking Relationships ^{R1}	Count	Percent
Buy	1869	53.01%	Buy	1030	55.11%
Hold	827	23.45%	Hold	476	57.56%
Sell	830	23.54%	Sell	389	46.87%

RI Issuers that were investment banking dients of BofA Securities or one of its affiliates within the past 12 months. For purposes of this Investment Rating Distribution, the coverage universe includes only stocks. A stock rated Neutral is included as a Hold. and a stock rated Underperform is included as a Sell.

FUNDAMENTAL EQUITY OPINION KEY: Opinions include a Volatility Risk Rating, an Investment Rating and an Income Rating. VOLATILITY RISK RATINGS, indicators of potential price fluctuation, are: A - Low, B - Medium and C - High. INVESTMENT RATINGS reflect the analyst's assessment of both a stock's absolute total return potential as well as its attractiveness for investment relative to other stocks within its Coverage Cluster (defined below). Our investment ratings are: 1 - Buy stocks are expected to have a total return of at least 10% and are the most attractive stocks in the coverage cluster; 2 - Neutral stocks are expected to remain flat or increase in value and are less attractive than Buy rated stocks and 3 - Underperform stocks are the least attractive stocks in a coverage cluster. An investment rating of 6 (No Rating) indicates that a stock is no longer trading on the basis of fundamentals. Analysts assign investment ratings considering, among other things, the 0-12 month total return expectation for a stock and the firm's guidelines for ratings dispersions (shown in the table below). The current price objective for a stock should be referenced to better understand the total return expectation at any given time. The price objective reflects the analyst's view of the potential price appreciation (depreciation).

Investment rating Total return expectation (within 12-month period of date of initial rating) Ratings dispersion guidelines for coverage cluster^{R2}

Buy	≥ 10%	≤ 70%
Neutral	≥ 0%	≤ 30%
Underperform	N/A	≥ 20%

Ratings dispersions may vary from time to time where BofA Global Research believes it better reflects the investment prospects of stocks in a Coverage Cluster.

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