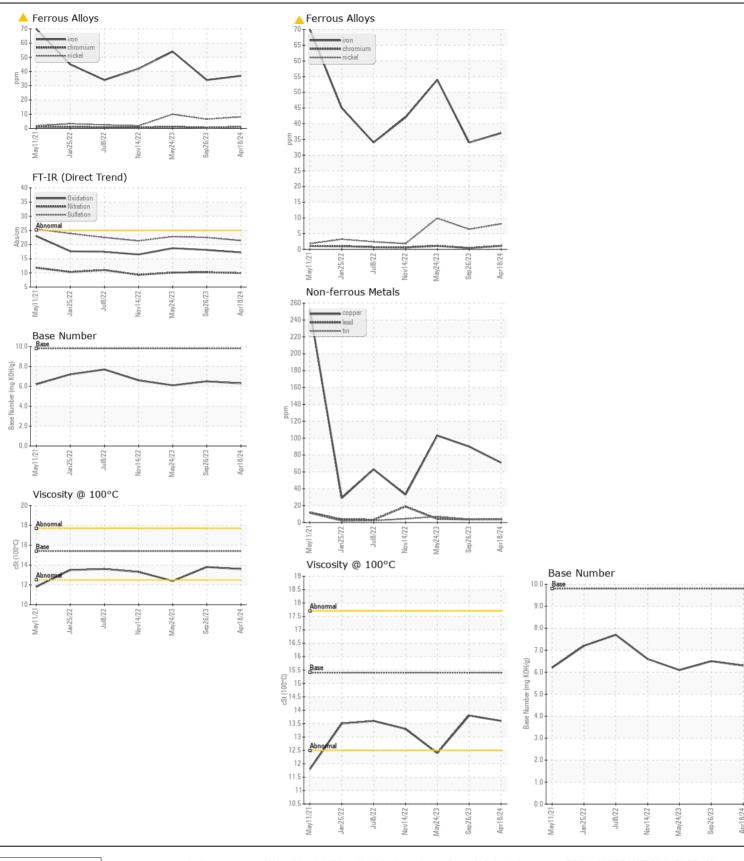
WEAR CONTAMINATION **FLUID CONDITION** **ABNORMAL** NORMAL **NORMAL**

CLI TRANSPORT LP - MANASSAS

8542 Component

Diesel Engine

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
ALCOMMENDATION	Sample Number	OCIVI	Client Info	LIIIIUAUII	NL0002033	NL0000571	NL0001611
Oil and filter change at the time of sampling has been noted. No corrective action is recommended at this time. Resample at the next service interval to monitor.	Sample Date		Client Info		18 Apr 2024	26 Sep 2023	24 May 2023
	Machine Age	mls	Client Info		308441	272302	235383
	Oil Age	mls	Client Info		45000	45000	45000
	Filter Age	mls	Client Info		45000	45000	45000
	Oil Changed	0	Client Info		Changed	Changed	Changed
	Filter Changed		Client Info		Changed	Changed	Changed
	Sample Status				ABNORMAL	ABNORMAL	
WEAR	Iron	ppm	ASTM D5185m	>100	37	34	54
Valve wear is indicated. All other component wear rates are normal.	Chromium	ppm	ASTM D5185m	>20	1	<1	1
valve wear is indicated. All other component wear rates are normal.	Nickel	ppm		>4	<u> </u>	<u> </u>	<u> </u>
	Titanium	ppm	ASTM D5185m		<1	0	0
	Silver	ppm	ASTM D5185m		1	<1	0
	Aluminum	ppm	ASTM D5185m		6	3	4
	Lead	ppm	ASTM D5185m		4	4	4
	Copper	ppm	ASTM D5185m		71	90	103
	Tin	ppm	ASTM D5185m	>15	4	4	7
	Vanadium	ppm	ASTM D5185m		<1	0	0
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	Silicon	ppm	ASTM D5185m	>25	9	8	<u>^</u> 25
	Potassium	ppm	ASTM D5185m		8	11	18
There is no indication of any contamination in the oil.	Fuel		WC Method	>5	<1.0	<1.0	0.3
	Water		WC Method	>0.2	NEG	NEG	NEG
	Glycol		WC Method		NEG	NEG	NEG
	Soot %	%	*ASTM D7844	>3	0.6	0.8	0.8
	Nitration	Abs/cm	*ASTM D7624	>20	9.9	10.2	10.1
	Sulfation	Abs/.1mm	*ASTM D7415	>30	21.4	22.5	22.8
	Silt	scalar	*Visual	NONE	NONE	NONE	NONE
	Debris	scalar	*Visual	NONE	NONE	NONE	NONE
	Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
	Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
	Odor	scalar	*Visual	NORML	NORML	NORML	NORML
	Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	NEG
FLUID CONDITION	Sodium	ppm	ASTM D5185m		2	0	13
	Boron	ppm	ASTM D5185m	0	17	2	15
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.	Barium	ppm	ASTM D5185m		1	4	0
	Molybdenum	ppm	ASTM D5185m		76	66	63
	Manganese	ppm	ASTM D5185m		2	1	4
	Magnesium	ppm	ASTM D5185m		1049	861	564
	Calcium	ppm	ASTM D5185m		1318	1188	1939
	Phosphorus	ppm	ASTM D5185m	1150	1095	949	1115
	Zinc	ppm	ASTM D5185m		1444	1204	1527
	Sulfur	ppm	ASTM D5185m		2967	2635	3840
	Oxidation	Abs/.1mm	*ASTM D7414		17.2	18.1	18.7
	Base Number (BN)	ma KOH/a	ASTM D2896	9.8	6.3	6.5	6.1
	Daco Hambor (Bit)	99					







Certificate L2367

Laboratory Sample No.

: NL0002033 **Lab Number** : 06217846 Unique Number : 11096043 Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 24 Jun 2024 **Tested** : 25 Jun 2024

: 25 Jun 2024 - Don Baldridge Diagnosed

FOX & JAMES NATIONALEASE - Manassas

1145 INDUSTRIAL RD $\mathsf{MANASSAS},\,\mathsf{VA}$ US 20109

Contact: JOSH ROLAND j.roland@foxandjames.com

To discuss this sample report, contact Customer Service at 1-800-237-1369. * - Denotes test methods that are outside of the ISO 17025 scope of accreditation.

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

T: (571)379-5296