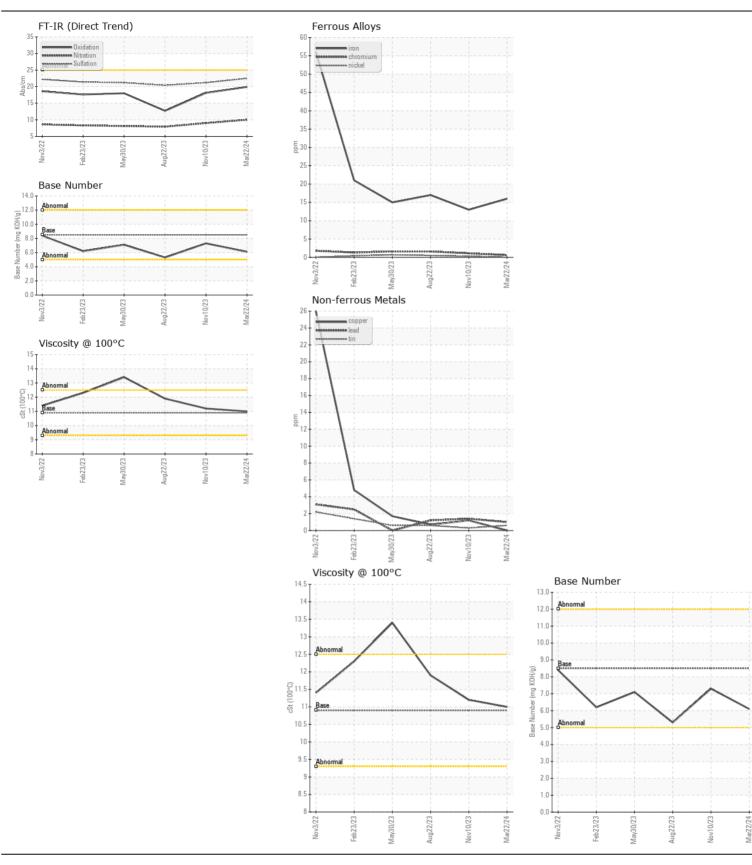
WEAR CONTAMINATION **FLUID CONDITION**

NORMAL NORMAL NORMAL

Machine Id

3775 Component Diesel Engine

DIESEL ENGINE OIL SAE 10W30 (QTS)							
Resample at the next service interval to monitor. Please specify the component make and model with your next sample. Please specify the brand, type, and viscosity of the oil on your next sample.	Test	UOM	Method	Limit/Abn	Current	History1	History2
	Sample Number	00111	Client Info	Little	WC0916494	WC0853996	WC0822918
	Sample Date		Client Info		22 Mar 2024	10 Nov 2023	22 Aug 2023
	Machine Age	mls	Client Info		189338	145562	113662
	Oil Age	mls	Client Info		43776	31902	29162
	Filter Age	mls	Client Info		43776	31902	29162
	Oil Changed		Client Info		Changed	Changed	Changed
	Filter Changed		Client Info		Changed	Changed	Changed
	Sample Status				NORMAL	NORMAL	NORMAL
WEAR	Iron	ppm	ASTM D5185m	>100	16	13	17
All component wear rates are normal.	Chromium	ppm	ASTM D5185m	>20	<1	1	2
	Nickel	ppm	ASTM D5185m	>4	0	<1	<1
	Titanium	ppm	ASTM D5185m		0	<1	0
	Silver	ppm	ASTM D5185m	>3	0	0	<1
	Aluminum	ppm	ASTM D5185m	>20	2	3	7
	Lead	ppm	ASTM D5185m	>40	1	1	1
	Copper	ppm	ASTM D5185m	>330	0	1	<1
	Tin	ppm	ASTM D5185m	>15	<1	<1	<1
	Vanadium	ppm	ASTM D5185m		0	0	0
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	Silicon	ppm	ASTM D5185m	>25	5	6	7
There is no indication of any contemination in the cit	Potassium	ppm	ASTM D5185m	>20	3	6	19
There is no indication of any contamination in the oil.	Fuel		WC Method	>5	<1.0	<1.0	<1.0
	Water		WC Method	>0.2	NEG	NEG	NEG
	Glycol		WC Method		NEG	NEG	NEG
	Soot %	%	*ASTM D7844	>3	0.3	0.2	0.2
	Nitration	Abs/cm	*ASTM D7624	>20	10.0	9.0	7.9
	Sulfation	Abs/.1mm	*ASTM D7415	>30	22.5	21.2	20.4
	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		<1	2	1
The BN result indicates that there is suitable alkalinity remaining in the	Boron	ppm	ASTM D5185m		1	<1	5
oil. The condition of the oil is suitable for further service.	Barium	ppm	ASTM D5185m	10	0	0	0
	Molybdenum	ppm	ASTM D5185m	100	59	53	19
	Manganese	ppm	ASTM D5185m		0	<1	<1
	Magnesium	ppm	ASTM D5185m		931	869	99
	Calcium	ppm	ASTM D5185m		1068	1197	2166
	Phosphorus	ppm	ASTM D5185m		1008	937	852
	Zinc	ppm	ASTM D5185m		1225	1236	1062
	Sulfur	ppm	ASTM D5185m		3150	2962	3801
	Oxidation	Abs/.1mm	*ASTM D7414		19.9	18.1	12.7
	Base Number (BN)				6.1	7.3	5.3
	Visc @ 100°C	cSt	ASTM D445	10.9	11.0	11.2	11.9







Certificate L2367

Laboratory Sample No.

: WC0916494 Lab Number : 06151509 Unique Number: 10981587 Test Package : FLEET

To discuss this sample report, contact Customer Service at 1-800-237-1369.

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 17 Apr 2024 **Tested**

Diagnosed

: 18 Apr 2024 : 18 Apr 2024 - Wes Davis **CARCO TRANSPORTATION**

3403 EAST ROOSEVELT ROAD LITTLE ROCK, AR

US 72206 Contact: DENNIS CATES

denniscates@carcotrans.com T: (800)967-0777

* - 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)

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