WEAR CONTAMINATION **FLUID CONDITION**

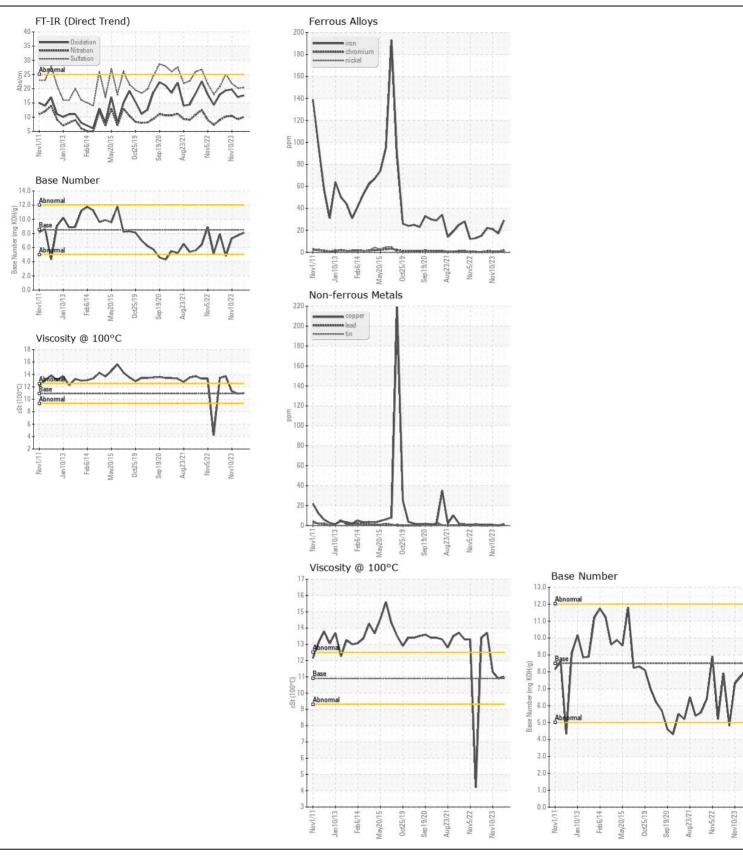
NORMAL NORMAL NORMAL

Machine Id

INTERNATIONAL 3517

Component
Diesel Engine

Diesel Engine DIESEL ENGINE OIL SAE 10W30 (32 QTS)							
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
	Sample Number		Client Info		WC0916552	WC0878535	WC0854050
Resample at the next service interval to monitor. Please specify the brand, type, and viscosity of the oil on your next sample.	Sample Date		Client Info		11 May 2024	12 Feb 2024	10 Nov 2023
	Machine Age	mls	Client Info		269241	259569	251343
	Oil Age	mls	Client Info		9677	4226	10044
	Filter Age	mls	Client Info		9677	4226	10044
	Oil Changed		Client Info		Changed	Changed	N/A
	Filter Changed		Client Info		Changed	Changed	N/A
	Sample Status				NORMAL	NORMAL	ATTENTION
WEAR	Iron	ppm	ASTM D5185m	>127	29	17	21
	Chromium	ppm	ASTM D5185m	>3	2	<1	<1
All component wear rates are normal.	Nickel	ppm	ASTM D5185m	>30	<1	0	0
	Titanium	ppm	ASTM D5185m	>2	<1	0	<1
	Silver	ppm	ASTM D5185m	>2	1	0	0
	Aluminum	ppm	ASTM D5185m	>59	8	4	4
	Lead	ppm	ASTM D5185m	>29	<1	0	<1
	Copper	ppm	ASTM D5185m	>135	2	<1	<1
	Tin	ppm	ASTM D5185m	>2	<1	0	0
	Vanadium	ppm	ASTM D5185m		<1	<1	0
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	Silicon	ppm	ASTM D5185m	>18	10	6	5
	Potassium	ppm	ASTM D5185m	>20	8	3	3
There is no indication of any contamination in the oil.	Fuel		WC Method	>2.0	<1.0	<1.0	1.7
	Water		WC Method	>0.2	NEG	NEG	NEG
	Glycol		WC Method		NEG	NEG	NEG
	Soot %	%	*ASTM D7844	>3	0.4	0.3	0.4
	Nitration	Abs/cm	*ASTM D7624	>20	10.1	9.2	10.4
	Sulfation	Abs/.1mm	*ASTM D7415	>30	20.4	20.2	21.8
	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		3	2	2
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.	Boron	ppm	ASTM D5185m	250	<1	2	1
	Barium	ppm	ASTM D5185m	10	1	0	0
	Molybdenum	ppm	ASTM D5185m	100	64	64	56
	Manganese	ppm	ASTM D5185m		<1	0	<1
	Magnesium	ppm	ASTM D5185m		999	1090	915
	Calcium	ppm	ASTM D5185m		1106	1141	1236
	Phosphorus	ppm	ASTM D5185m		1031	1169	985
	Zinc	ppm	ASTM D5185m		1278	1419	1296
	Sulfur	ppm	ASTM D5185m		3015	3393	3048
	Oxidation	Abs/.1mm	*ASTM D7414		17.6	17.0	19.7
	Base Number (BN)				8.1	7.7	7.3
	Visc @ 100°C	cSt	ASTM D445	10.9	11.0	10.9	11.3







Certificate L2367

Report Id: CARLIT [WUSCAR] 06191937 (Generated: 05/29/2024 17:22:46) Rev: 1

Laboratory Sample No.

Lab Number : 06191937

Unique Number : 11048689 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 : 28 May 2024 : WC0916552

: 29 May 2024 **Tested** Diagnosed : 29 May 2024 - Wes Davis **CARCO TRANSPORTATION**

3403 EAST ROOSEVELT ROAD LITTLE ROCK, AR

US 72206

T: (800)967-0777

Contact: DENNIS CATES denniscates@carcotrans.com

* - 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)

Contact/Location: DENNIS CATES - CARLIT

F: