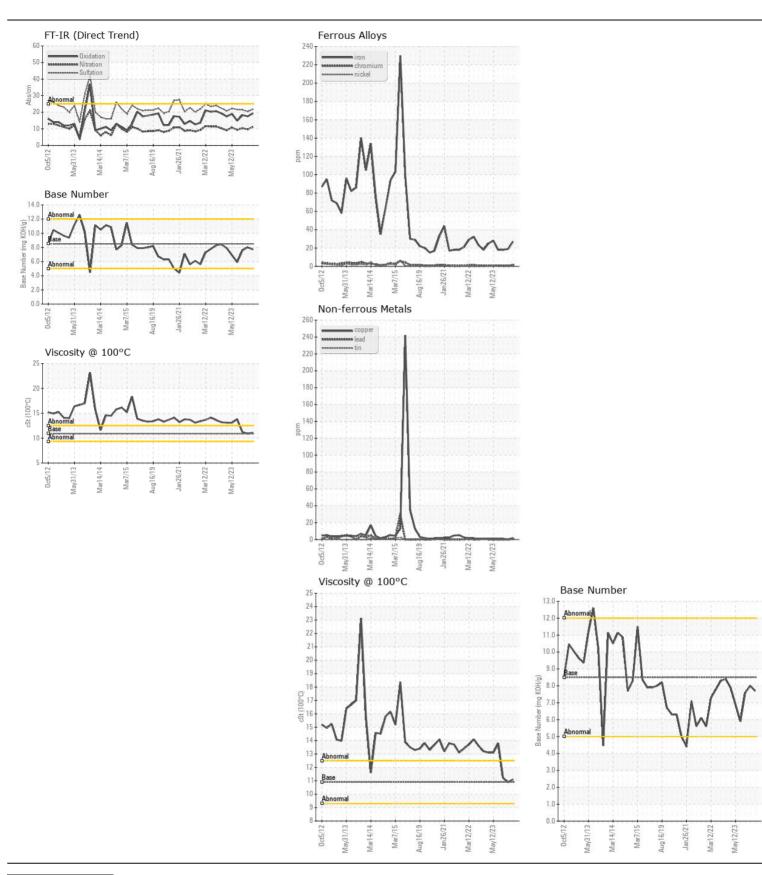
WEAR CONTAMINATION FLUID CONDITION

NORMAL NORMAL NORMAL

Machine Id

INTERNATIONAL 3516

Component Front Diesel Engine Fluid							
DIESEL ENGINE OIL SAE 10W30 (32 QTS)							
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
TECOMMENDATION	Sample Number	OOW	Client Info	LITTIO7 COTT	WC0916560	WC0878538	-
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		04 May 2024	18 Feb 2024	10 Nov 2023
	Machine Age	mls	Client Info		15195	310165	296887
	Oil Age	mls	Client Info		15195	27318	14034
	Filter Age	mls	Client Info		15195	27318	14034
	Oil Changed		Client Info		Changed	N/A	Changed
	Filter Changed		Client Info		Changed	N/A	Changed
	Sample Status				NORMAL	ATTENTION	ABNORMAL
WEAR	Iron	ppm	ASTM D5185m	>127	27	19	18
	Chromium	ppm	ASTM D5185m	>3	1	<1	<1
Metal levels are typical for a new component breaking in.	Nickel	ppm	ASTM D5185m	>30	<1	0	0
	Titanium	ppm	ASTM D5185m	>2	<1	0	0
	Silver	ppm	ASTM D5185m		1	0	0
	Aluminum	ppm	ASTM D5185m	>59	10	8	8
	Lead	ppm	ASTM D5185m	>29	<1	0	0
	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
Elevated aluminum (Al) and/or lead (Pb) and potassium (K) levels in your metals analysis are likely a result of solder flux release into the lubricant and is common on new equipment/components. There is no indication of any contamination in the oil.	Silicon	ppm	ASTM D5185m		7	6	5
	Potassium	ppm	ASTM D5185m		12	8	9
	Fuel		WC Method	>2.0	<1.0	1.2	<u>^</u> 2.0
	Water		WC Method	>0.2	NEG	NEG	NEG
	Glycol		WC Method		NEG	NEG	NEG
	Soot %	%	*ASTM D7844		0.5	0.3	0.3
	Nitration	Abs/cm	*ASTM D7624	>20	11.2	9.6	10.3
	Sulfation	Abs/.1mm	*ASTM D7415		21.8	20.4	21.4
	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		2	1	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		<1	<1	1
	Barium	ppm	ASTM D5185m		<1	0	0
	Molybdenum	ppm	ASTM D5185m	100	65	66	57
	Manganese	ppm	ASTM D5185m		<1	0	<1
	Magnesium	ppm	ASTM D5185m		1051	1125	932
	Calcium	ppm	ASTM D5185m		1157	1188	1269
	Phosphorus	ppm	ASTM D5185m		1106	1206	1006
	Zinc	ppm		1350	1355	1474	1326
	Sulfur	ppm	ASTM D5185m		3225	3417	3029
	Oxidation	Abs/.1mm	*ASTM D7414		19.3	17.5	18.2
	Base Number (BN)	0 0			7.7	8.0	7.6
	Visc @ 100°C	cSt	ASTM D445	10.9	11.1	0.9	<u>▲</u> 11.2







Certificate L2367

Report Id: CARLIT [WUSCAR] 06191926 (Generated: 05/29/2024 17:22:15) Rev: 1

Laboratory Sample No.

: WC0916560 Lab Number : 06191926 Unique Number : 11048678 Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 28 May 2024 **Tested**

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

3403 EAST ROOSEVELT ROAD LITTLE ROCK, AR

US 72206

Contact: DENNIS CATES denniscates@carcotrans.com

T: (800)967-0777

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)

F: