

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

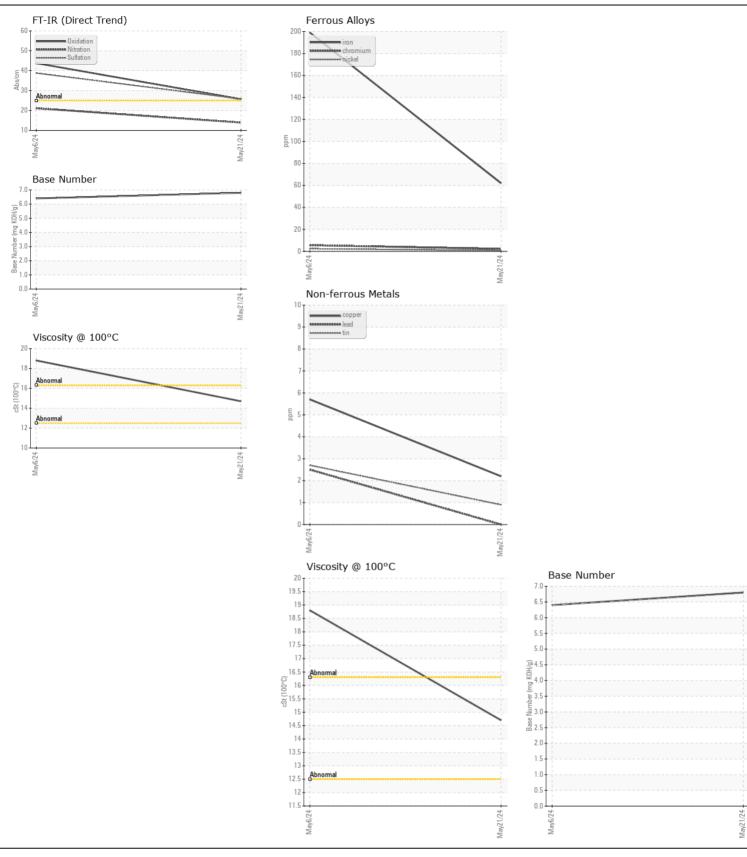
Store 9 - Marietta

FREIGHTLINER BUCKET 1905

Diesel Engine

MOBIL 15W40 (--- GAL)

DECOMMEND ATION	- .	11014		12 27/81		Line is a	
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Resample at the next service interval to monitor.	Sample Number		Client Info		LEC0048389	LEC0037377	
	Sample Date	mle	Client Info		21 May 2024	06 May 2024	
	Machine Age	mls	Client Info		72206	10000	
	Oil Age	mls	Client Info		10000 10000	0	
	Filter Age Oil Changed	mls	Client Info				
	Filter Changed		Client Info		Changed	Changed	
	_		Client Into		Changed	Changed ABNORMAL	
<u></u>	Sample Status				NORMAL	ADNORIVIAL	
WEAR	Iron	ppm	ASTM D5185m	>80	62	<u> </u>	
All component wear rates are normal.	Chromium	ppm	ASTM D5185m	>5	2	6	
	Nickel	ppm	ASTM D5185m	>2	<1	2	
	Titanium	ppm	ASTM D5185m		<1	1	
	Silver	ppm	ASTM D5185m	>3	0	<1	
	Aluminum	ppm	ASTM D5185m	>30	5	12	
	Lead	ppm	ASTM D5185m	>30	0	2	
	Copper	ppm	ASTM D5185m	>150	2	6	
	Tin	ppm	ASTM D5185m	>5	<1	3	
	Vanadium	ppm	ASTM D5185m		0	<1	
	White Metal	scalar	*Visual	NONE	NONE	NONE	
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
CONTAMINATION	Silicon	ppm	ASTM D5185m		6	13	
There is no indication of any contamination in the oil.	Potassium	ppm	ASTM D5185m		8	18	
	Fuel		WC Method		<1.0	<1.0	
	Water		WC Method	>0.2	NEG	NEG	
	Glycol		WC Method		NEG	NEG	
	Soot %	%	*ASTM D7844		0.8	2	
	Nitration	Abs/cm	*ASTM D7624	>20	13.9	21.1	
	Sulfation	Abs/.1mm	*ASTM D7415		25.8	38.8	
	Silt	scalar	*Visual	NONE	NONE	NONE	
	Debris	scalar	*Visual	NONE	NONE	NONE	
	Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	
	Appearance	scalar	*Visual	NORML	NORML	NORML	
	Odor	scalar	*Visual	NORML	NORML	NORML	
	Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	
LUID CONDITION	Sodium	ppm	ASTM D5185m	>118	1	6	
	Boron	ppm	ASTM D5185m		19	30	
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		0	0	
	Molybdenum	ppm	ASTM D5185m		78	52	
	Manganese	ppm	ASTM D5185m		<1	3	
	Magnesium	ppm	ASTM D5185m		1067	1097	
	Calcium	ppm	ASTM D5185m		1250	1741	
	Phosphorus	ppm	ASTM D5185m		1275	1385	
	Zinc	ppm	ASTM D5185m		1504	1663	
	Sulfur	ppm	ASTM D5185m		3796	4462	
	Oxidation	Abs/.1mm	*ASTM D7414	>25	25.6	43.8	
	Base Number (BN)	mg KOH/g	ASTM D2896		6.8	6.4	
	Visc @ 100°C	cSt	ASTM D445		14.7	<u> </u>	







Certificate L2367

Laboratory Sample No.

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Lab Number : 06197491

: LEC0048389

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

Received **Tested** Unique Number : 11059614 Test Package : CONST (Additional Tests: TBN)

: 03 Jun 2024 : 04 Jun 2024 Diagnosed

: 04 Jun 2024 - Don Baldridge

US 43081 Contact: DAN ROMINE dromine@russelltreeexperts.com T: (614)895-7000

3427 E DUBLIN GRANVILLE RD

RUSSELL TREE EXPERTS

WESTERVILLE, OH

* - 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)