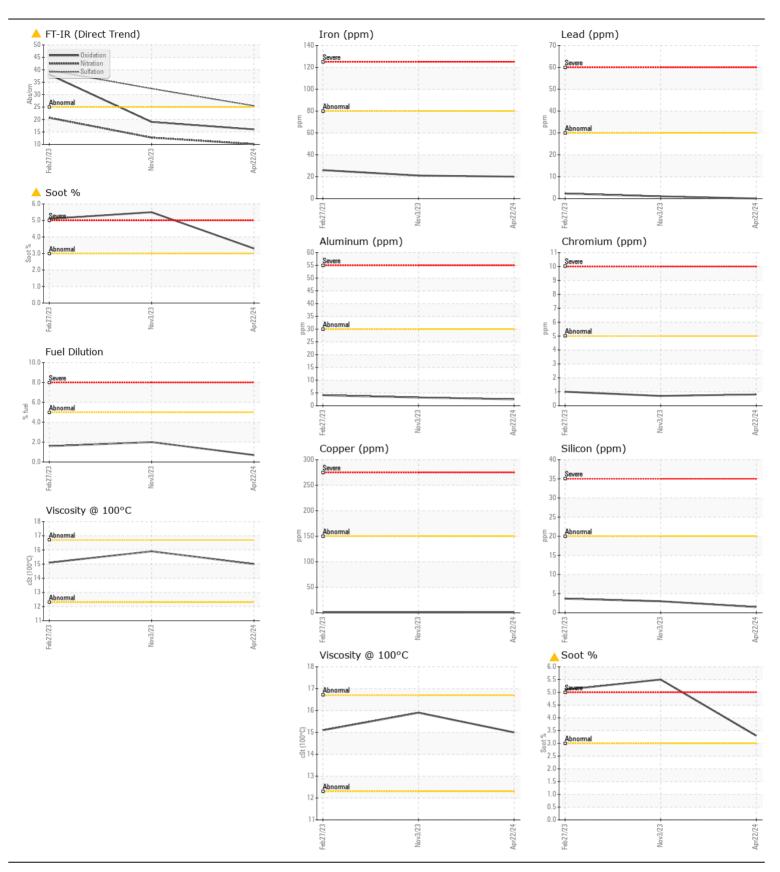
WEAR CONTAMINATION **FLUID CONDITION**

NORMAL ABNORMAL NORMAL

Machine Id

Freightliner T184 (S/N 3ALXA7BG7GDGT7720) Component Diesel Engine Fluid DIESEL TORY Fluid DIESEL TORY

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
The oil change at the time of sampling has been noted.	Sample Number		Client Info		WC0906432	WC0806841	WC079024
	Sample Date		Client Info		22 Apr 2024	03 Nov 2023	27 Feb 202
	Machine Age	hrs	Client Info		1067069	1017567	963585
	Oil Age	hrs	Client Info		0	0	0
	Filter Age	hrs	Client Info		0	0	0
	Oil Changed		Client Info		Changed	Changed	Changed
	Filter Changed		Client Info		Changed	Changed	Changeo
	Sample Status				ABNORMAL	SEVERE	SEVERE
WEAR	Iron	ppm	ASTM D5185(m)	>80	20	21	26
All component wear rates are normal.	Chromium	ppm	ASTM D5185(m)		<1	<1	1
	Nickel	ppm	ASTM D5185(m)		0	0	<1
	Titanium	ppm	ASTM D5185(m)		0	0	<1
	Silver	ppm	ASTM D5185(m)	>3	0	0	0
	Aluminum	ppm	ASTM D5185(m)	>30	2	3	4
	Lead	ppm	ASTM D5185(m)	>30	0	1	2
	Copper	ppm	ASTM D5185(m)	>150	1	<1	<1
	Tin	ppm	ASTM D5185(m)	>5	0	<1	<1
	Vanadium	ppm	ASTM D5185(m)		0	0	0
CONTAMINATION	Silicon	ppm	ASTM D5185(m)	>20	2	3	4
	Potassium	ppm	ASTM D5185(m)		<1	<1	2
Fuel content negligible. Light concentration of carbon/soot present in the oil.	Fuel	%	ASTM D7593*		0.7	<u>^</u> 2	1.6
	Water		WC Method	>0.2	NEG	NEG	NEG
	Glycol		WC Method		NEG	NEG	NEG
	Soot %	%	ASTM D7844*	>3	△ 3.3	▲ 5.5	▲ 5.1
	Nitration	Abs/cm	ASTM D7624*	>20	10.1	12.7	20.7
	Sulfation	Abs/.1mm	ASTM D7415*	>30	25.5	32.4	39.8
	Emulsified Water	scalar	Visual*	>0.2	NEG	NEG	NEG
FLUID CONDITION	Sodium	ppm	ASTM D5185(m)		2	2	2
The oil is no longer serviceable due to the presence of contaminants.	Boron	ppm	ASTM D5185(m)		75	30	22
	Barium	ppm	ASTM D5185(m)		0	<1	0
	Molybdenum	ppm	ASTM D5185(m)		62	65	58
	Manganese	ppm	ASTM D5185(m)		<1	0	<1
	Magnesium	ppm	ASTM D5185(m)		362	261	69
	Calcium	ppm	ASTM D5185(m)		1634	1847	2174
	Phosphorus	ppm	ASTM D5185(m)		963	963	986
	Zinc	ppm	ASTM D5185(m)		1143	1129	1088
	Sulfur	ppm	ASTM D5185(m)		2587	2702	2968
	Oxidation	Abs/.1mm	ASTM D7414*	>25	16.0	19.0	38.1
	Visc @ 100°C	cSt	ASTM D7279(m)		15.0	15.9	△ 15.1





CALA ISO 17025:2017 Accredited Laboratory

Laboratory Sample No.

Lab Number : 02631617 Unique Number : 5772770

: WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 Received : WC0906432 **Tested**

: 30 Apr 2024 - Wes Davis Diagnosed Test Package: MOB 1 (Additional Tests: FuelDilution, PercentFuel)

: 26 Apr 2024

: 30 Apr 2024

To discuss this sample report, contact Customer Service at 1-800-268-2131. Test denoted (*) outside scope of accreditation, (m) method modified, (e) tested at external lab. Validity of results and interpretation are based on the sample and information as supplied.

Zavcor Trucking Limited

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