



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	SEVERE
FLUID CONDITION	NORMAL

Machine Id
Freightliner T184 (S/N 3ALXA7BG7GDGT7720)
 Component
Diesel Engine
 Fluid
INVENTORY EXPRESS 15W40 (44 LTR)

RECOMMENDATION

We advise that you check for faulty combustion, plugged air filters, or aftercoolers. The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition. No other corrective action is recommended at this time.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WC0806841	WC0790248	---
Sample Date		Client Info		03 Nov 2023	27 Feb 2023	---
Machine Age	hrs	Client Info		1017567	963585	---
Oil Age	hrs	Client Info		0	0	---
Filter Age	hrs	Client Info		0	0	---
Oil Changed		Client Info		Changed	Changed	---
Filter Changed		Client Info		Changed	Changed	---
Sample Status				SEVERE	SEVERE	---

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>80	21	26	---
Chromium	ppm	ASTM D5185(m)	>5	<1	1	---
Nickel	ppm	ASTM D5185(m)	>2	0	<1	---
Titanium	ppm	ASTM D5185(m)		0	<1	---
Silver	ppm	ASTM D5185(m)	>3	0	0	---
Aluminum	ppm	ASTM D5185(m)	>30	3	4	---
Lead	ppm	ASTM D5185(m)	>30	1	2	---
Copper	ppm	ASTM D5185(m)	>150	<1	<1	---
Tin	ppm	ASTM D5185(m)	>5	<1	<1	---
Vanadium	ppm	ASTM D5185(m)		0	0	---

CONTAMINATION

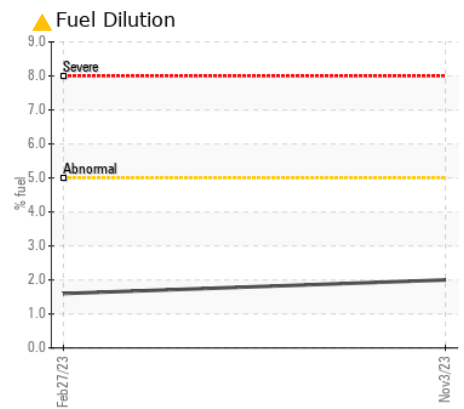
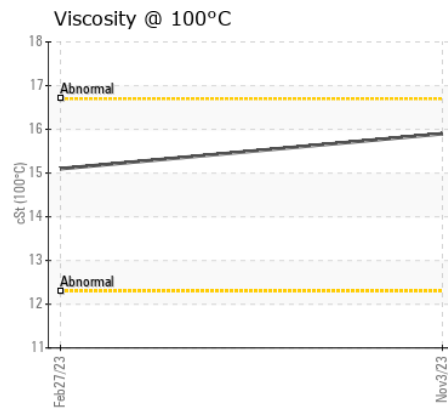
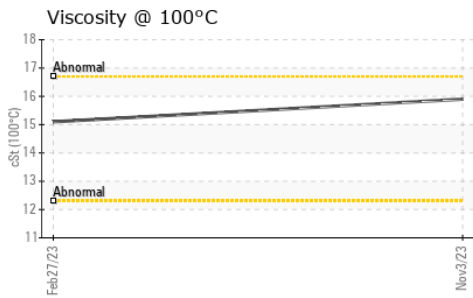
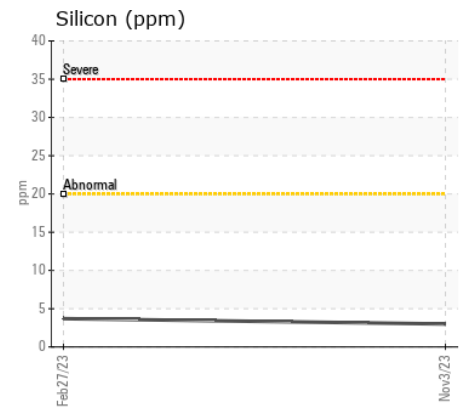
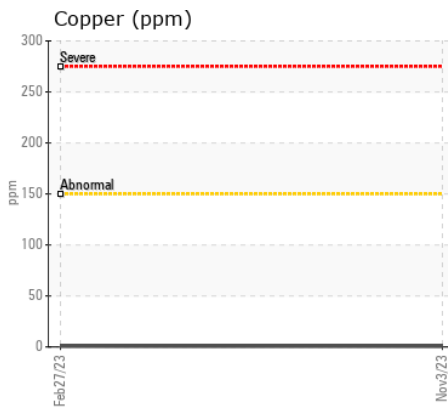
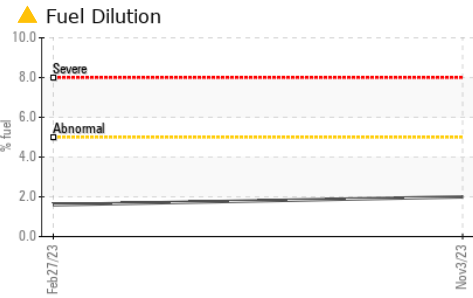
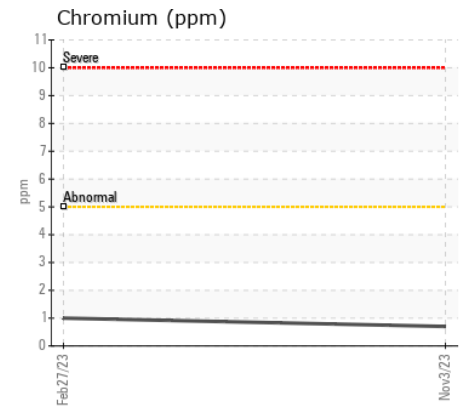
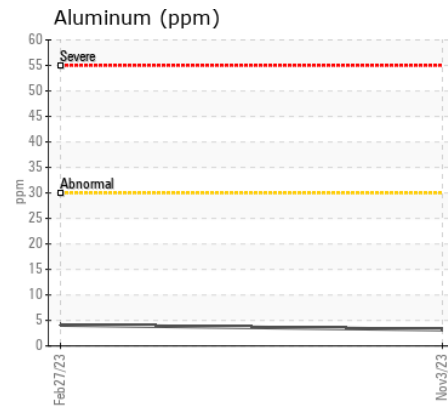
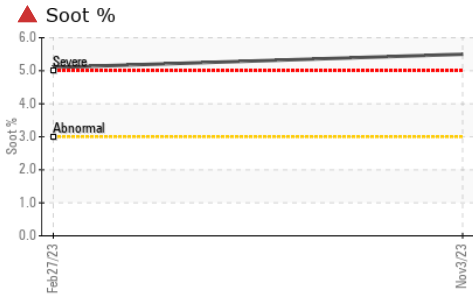
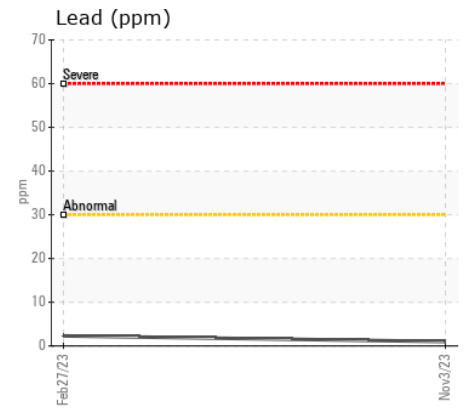
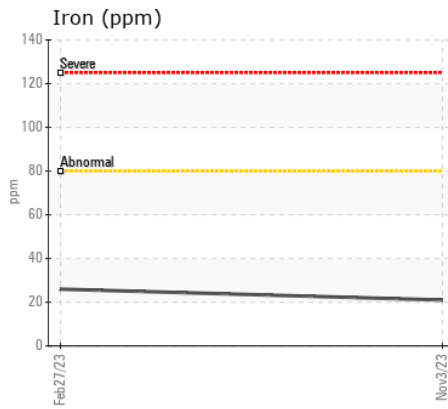
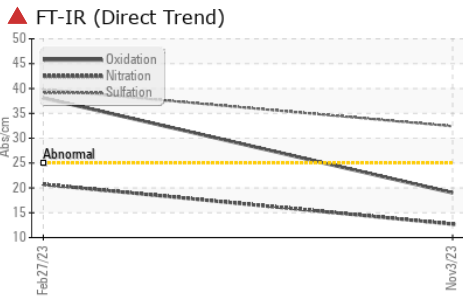
Light fuel dilution occurring. There is an abnormal amount of solids and carbon present in the oil. No other contaminants were detected in the oil.

Silicon	ppm	ASTM D5185(m)	>20	3	4	---
Potassium	ppm	ASTM D5185(m)	>20	<1	2	---
Fuel	%	ASTM D7593*	>5	▲ 2	1.6	---
Water		WC Method	>0.2	NEG	NEG	---
Glycol		WC Method		NEG	NEG	---
Soot %	%	ASTM D7844*	>3	▲ 5.5	▲ 5.1	---
Nitration	Abs/cm	ASTM D7624*	>20	12.7	20.7	---
Sulfation	Abs/.1mm	ASTM D7415*	>30	32.4	39.8	---
Emulsified Water	scalar	Visual*	>0.2	NEG	NEG	---

FLUID CONDITION

The oil is no longer serviceable due to the presence of contaminants.

Sodium	ppm	ASTM D5185(m)		2	2	---
Boron	ppm	ASTM D5185(m)		30	22	---
Barium	ppm	ASTM D5185(m)		<1	0	---
Molybdenum	ppm	ASTM D5185(m)		65	58	---
Manganese	ppm	ASTM D5185(m)		0	<1	---
Magnesium	ppm	ASTM D5185(m)		261	69	---
Calcium	ppm	ASTM D5185(m)		1847	2174	---
Phosphorus	ppm	ASTM D5185(m)		963	986	---
Zinc	ppm	ASTM D5185(m)		1129	1088	---
Sulfur	ppm	ASTM D5185(m)		2702	2968	---
Oxidation	Abs/.1mm	ASTM D7414*	>25	19.0	38.1	---
Visc @ 100°C	cSt	ASTM D7279(m)		15.9	▲ 15.1	---



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WC0806841 **Received** : 10 Nov 2023
Lab Number : 02595530 **Tested** : 13 Nov 2023
Unique Number : 5672609 **Diagnosed** : 13 Nov 2023 - Wes Davis
Test Package : MOB 1 (Additional Tests: FuelDilution, PercentFuel)

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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.

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