



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	ABNORMAL
FLUID CONDITION	NORMAL

Machine Id
Freightliner T174 (S/N 3ALXFAA8XEDFU4437)
 Component
Diesel Engine
 Fluid
INVENTORY EXPRESS 15W40 (44 LTR)

RECOMMENDATION

The oil change at the time of sampling has been noted.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WC0889787	WC0758820	---
Sample Date		Client Info		15 Mar 2024	02 Nov 2022	---
Machine Age	kms	Client Info		1293879	1192338	---
Oil Age	kms	Client Info		0	0	---
Filter Age	kms	Client Info		0	0	---
Oil Changed		Client Info		Changed	Changed	---
Filter Changed		Client Info		Changed	Changed	---
Sample Status				ABNORMAL	SEVERE	---

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>80	36	▲ 86	---
Chromium	ppm	ASTM D5185(m)	>5	1	4	---
Nickel	ppm	ASTM D5185(m)	>2	0	0	---
Titanium	ppm	ASTM D5185(m)		0	2	---
Silver	ppm	ASTM D5185(m)	>3	0	0	---
Aluminum	ppm	ASTM D5185(m)	>30	4	7	---
Lead	ppm	ASTM D5185(m)	>30	1	3	---
Copper	ppm	ASTM D5185(m)	>150	3	10	---
Tin	ppm	ASTM D5185(m)	>5	0	1	---
Vanadium	ppm	ASTM D5185(m)		0	<1	---

CONTAMINATION

Light concentration of carbon/soot present in the oil. Tests indicate that there is no fuel present in the oil.

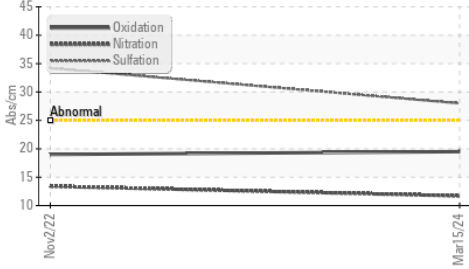
Silicon	ppm	ASTM D5185(m)	>20	2	7	---
Potassium	ppm	ASTM D5185(m)	>20	<1	1	---
Fuel	%	ASTM D7593*	>5	0.0	1	---
Water		WC Method	>0.2	NEG	NEG	---
Glycol		WC Method		NEG	NEG	---
Soot %	%	ASTM D7844*	>3	▲ 3.1	▲ 5	---
Nitration	Abs/cm	ASTM D7624*	>20	11.7	13.4	---
Sulfation	Abs/.1mm	ASTM D7415*	>30	28.0	34.2	---
Emulsified Water	scalar	Visual*	>0.2	NEG	NEG	---

FLUID CONDITION

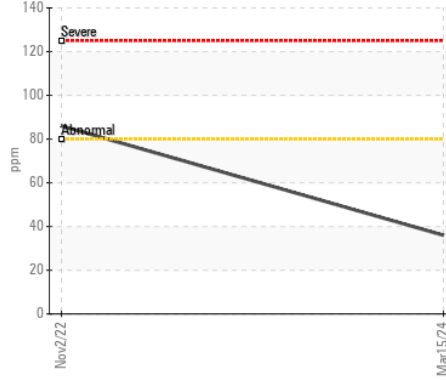
The oil is no longer serviceable due to the presence of contaminants.

Sodium	ppm	ASTM D5185(m)		13	14	---
Boron	ppm	ASTM D5185(m)		64	20	---
Barium	ppm	ASTM D5185(m)		0	0	---
Molybdenum	ppm	ASTM D5185(m)		62	47	---
Manganese	ppm	ASTM D5185(m)		<1	<1	---
Magnesium	ppm	ASTM D5185(m)		390	103	---
Calcium	ppm	ASTM D5185(m)		1625	2219	---
Phosphorus	ppm	ASTM D5185(m)		1013	1002	---
Zinc	ppm	ASTM D5185(m)		1203	1092	---
Sulfur	ppm	ASTM D5185(m)		2519	2851	---
Oxidation	Abs/.1mm	ASTM D7414*	>25	19.5	19.0	---
Visc @ 100°C	cSt	ASTM D7279(m)		15.6	15.1	---

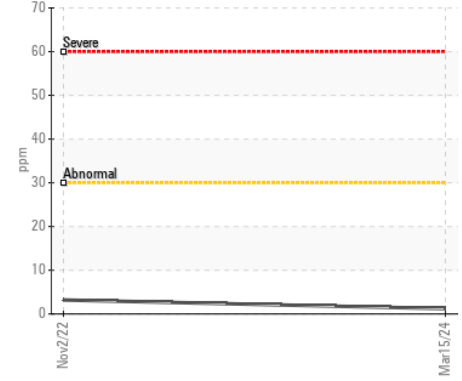
▲ FT-IR (Direct Trend)



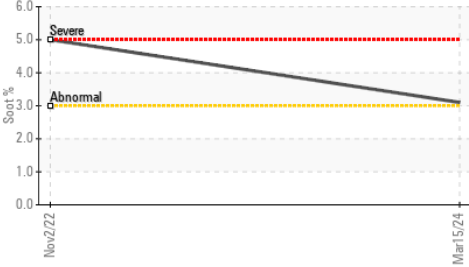
Iron (ppm)



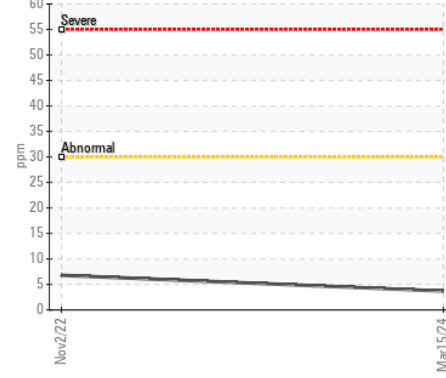
Lead (ppm)



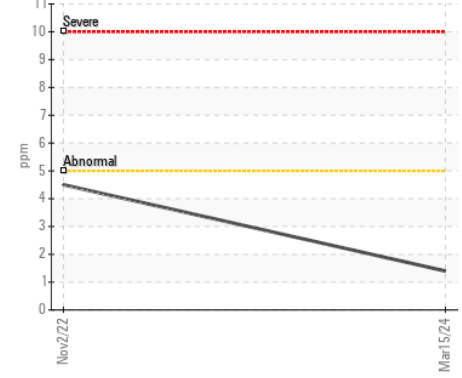
▲ Soot %



Aluminum (ppm)



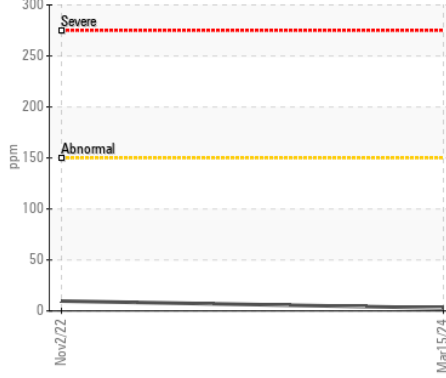
Chromium (ppm)



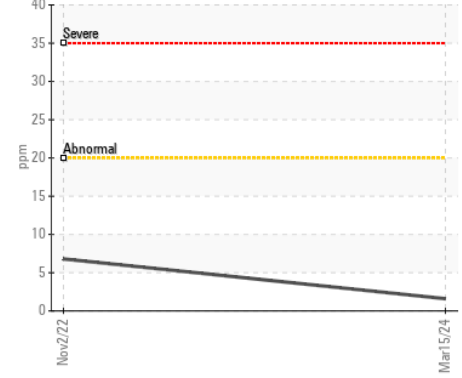
Fuel Dilution



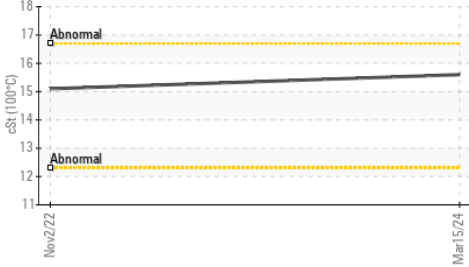
Copper (ppm)



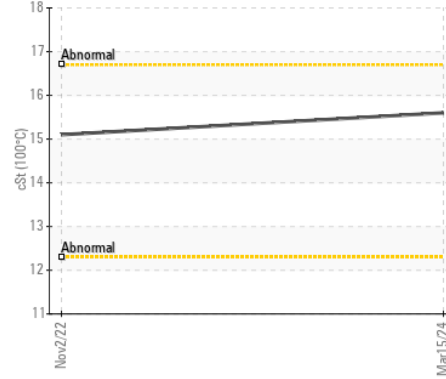
Silicon (ppm)



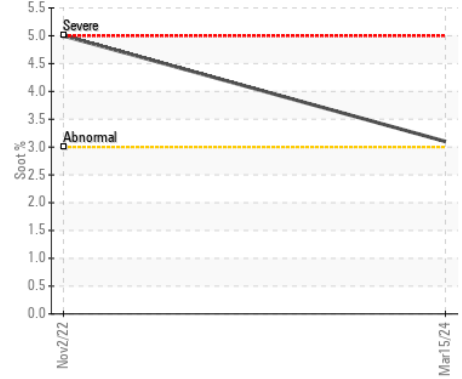
Viscosity @ 100°C



Viscosity @ 100°C



▲ Soot %



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WC0889787 **Received** : 30 May 2024
Lab Number : 02638991 **Tested** : 03 Jun 2024
Unique Number : 5788153 **Diagnosed** : 03 Jun 2024 - 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.