MOB I

OIL ANALYSIS REPORT

WEAR	ABNORMAL
CONTAMINATION	ABNORMAL
FLUID CONDITION	NORMAL

Machine Id
26022129
Component
Diesel Engine
Fluid
SHELL ROTELLA T 15W40 (--- GAL)

RECOMMENDATION

We advise that you check the air filter, air induction system, and any areas where dirt may enter the component. We recommend that you drain the oil from the component if this has not already been done. Oil and filter change at the time of sampling has been noted. We recommend an early resample to monitor this condition.

WEAR

Chromium and tin ppm levels are abnormal. Aluminum ppm levels are noted. Ring wear is indicated. Slide bearing wear is indicated.

CONTAMINATION

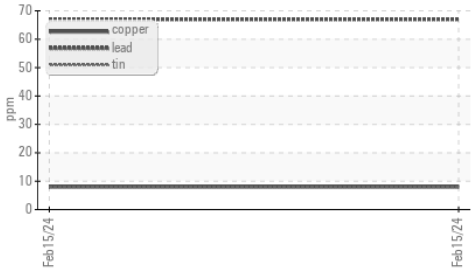
Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress. High amount of ingressed dirt has caused abrasive wear to the component.

FLUID CONDITION

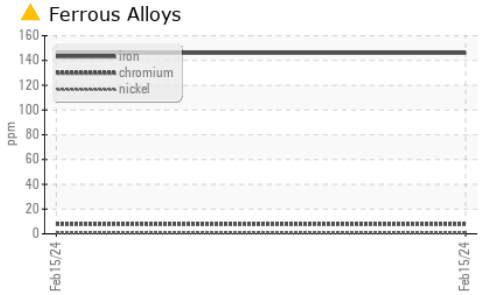
The oil is no longer serviceable as a result of the abnormal and/or severe wear.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		CU0022118	---	---
Sample Date		Client Info		15 Feb 2024	---	---
Machine Age	hrs	Client Info		27851	---	---
Oil Age	hrs	Client Info		659	---	---
Filter Age	hrs	Client Info		659	---	---
Oil Changed		Client Info		Changed	---	---
Filter Changed		Client Info		Changed	---	---
Sample Status				ABNORMAL	---	---
Iron	ppm	ASTM D5185(m)	>165	146	---	---
Chromium	ppm	ASTM D5185(m)	>5	▲ 8	---	---
Nickel	ppm	ASTM D5185(m)	>4	<1	---	---
Titanium	ppm	ASTM D5185(m)	>2	<1	---	---
Silver	ppm	ASTM D5185(m)	>2	0	---	---
Aluminum	ppm	ASTM D5185(m)	>20	▲ 18	---	---
Lead	ppm	ASTM D5185(m)	>150	67	---	---
Copper	ppm	ASTM D5185(m)	>90	8	---	---
Tin	ppm	ASTM D5185(m)	>5	▲ 8	---	---
Vanadium	ppm	ASTM D5185(m)		0	---	---
Silicon	ppm	ASTM D5185(m)	>35	▲ 52	---	---
Potassium	ppm	ASTM D5185(m)	>20	6	---	---
Fuel		WC Method	>3.0	<1.0	---	---
Water		WC Method	>0.2	NEG	---	---
Glycol	%	ASTM D7922*		0.0	---	---
Soot %	%	ASTM D7844*	>7.5	1.7	---	---
Nitration	Abs/cm	ASTM D7624*	>20	12.3	---	---
Sulfation	Abs/.1mm	ASTM D7415*	>30	28.5	---	---
Emulsified Water	scalar	Visual*	>0.2	NEG	---	---
Sodium	ppm	ASTM D5185(m)		7	---	---
Boron	ppm	ASTM D5185(m)	35	46	---	---
Barium	ppm	ASTM D5185(m)	0	0	---	---
Molybdenum	ppm	ASTM D5185(m)	0	27	---	---
Manganese	ppm	ASTM D5185(m)	0	1	---	---
Magnesium	ppm	ASTM D5185(m)	10	344	---	---
Calcium	ppm	ASTM D5185(m)	2340	2144	---	---
Phosphorus	ppm	ASTM D5185(m)	1110	1134	---	---
Zinc	ppm	ASTM D5185(m)	1210	1312	---	---
Sulfur	ppm	ASTM D5185(m)	3890	3254	---	---
Oxidation	Abs/.1mm	ASTM D7414*	>25	22.8	---	---
Visc @ 100°C	cSt	ASTM D7279(m)	15.7	15.7	---	---

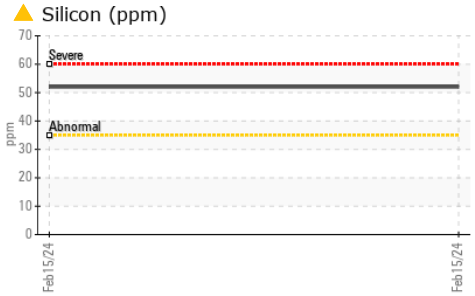
Non-ferrous Metals



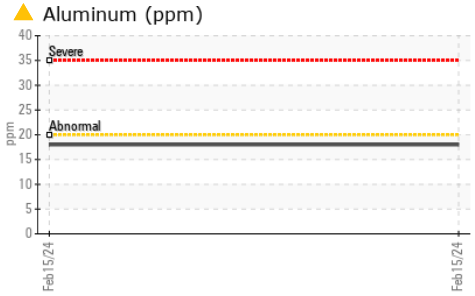
Ferrous Alloys



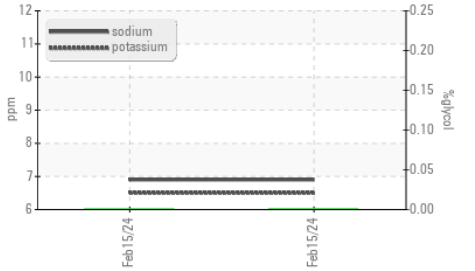
Silicon (ppm)



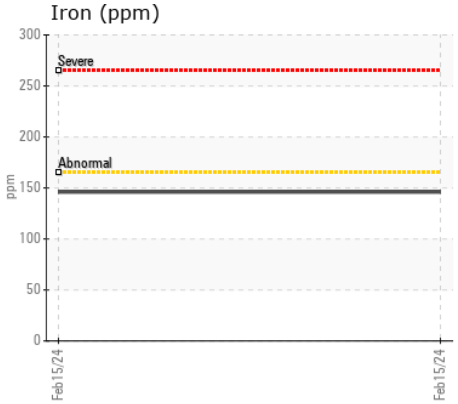
Aluminum (ppm)



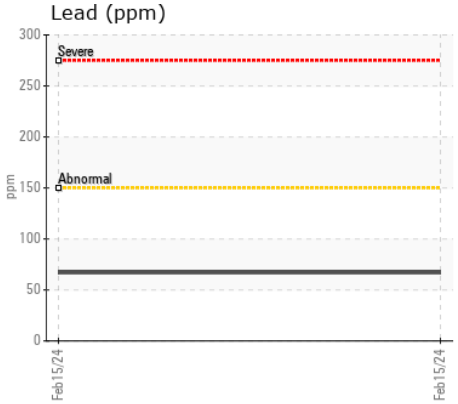
Glycol Contamination



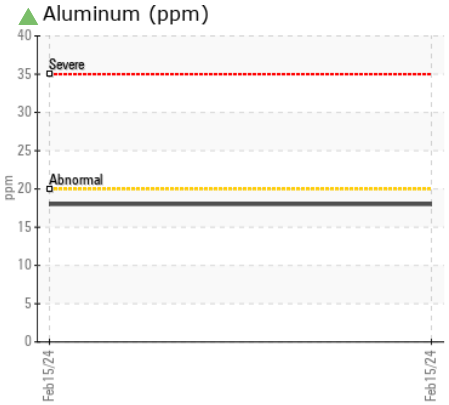
Iron (ppm)



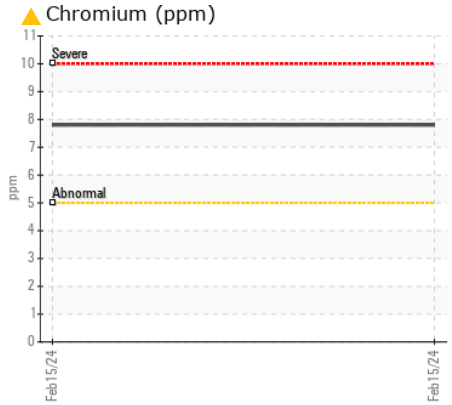
Lead (ppm)



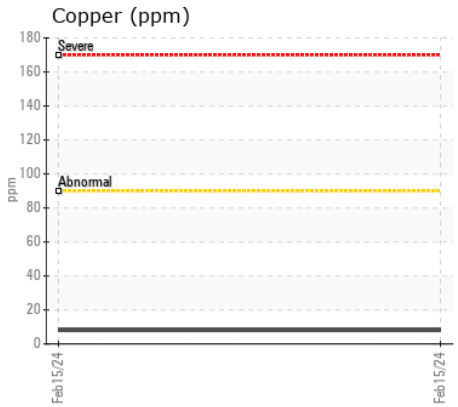
Aluminum (ppm)



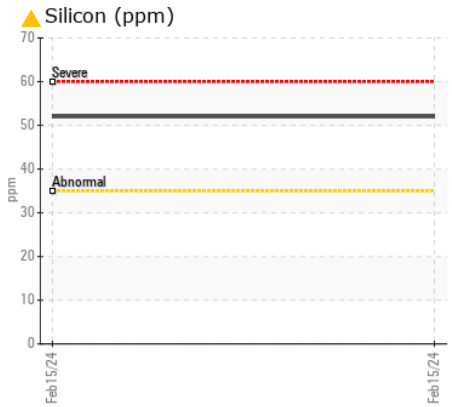
Chromium (ppm)



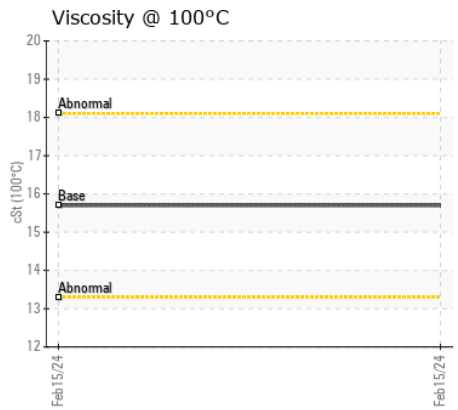
Copper (ppm)



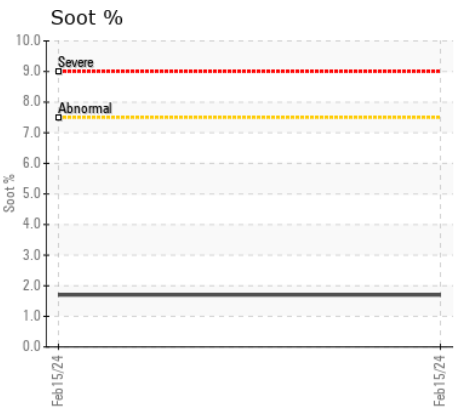
Silicon (ppm)



Viscosity @ 100°C



Soot %



ISO 17025:2017 Accredited Laboratory

Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : CU0022118
Lab Number : 02617411
Unique Number : 5734521
Test Package : MOB 1 (Additional Tests: Glycol)

Received : 22 Feb 2024
Tested : 22 Feb 2024
Diagnosed : 23 Feb 2024 - Kevin Marson

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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