MOB I

WEAR CHECK

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Area
[44599431]
Machine Id
7468
Component
Diesel Engine
Fluid
SHELL 15W40 (--- GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

WEAR

All component wear rates are normal.

CONTAMINATION

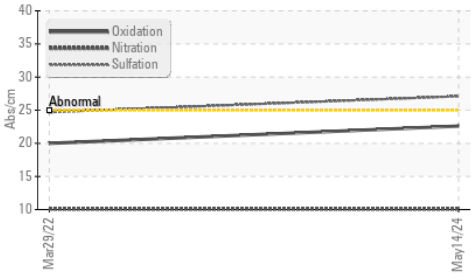
Elevated aluminum (Al) and/or lead (Pb) and potassium (K) levels in your metals analysis are likely a result of solder flux release into the lubricant and is common on new equipment/components. There is no indication of any contamination in the oil.

FLUID CONDITION

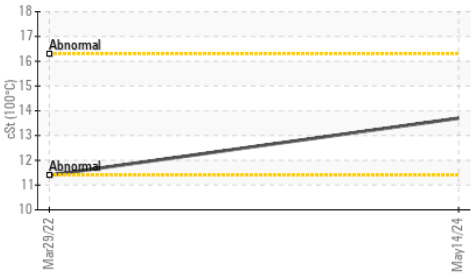
The condition of the oil is acceptable for the time in service.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WC0554144	WC0553336	---
Sample Date		Client Info		14 May 2024	29 Mar 2022	---
Machine Age	kms	Client Info		165273	53336	---
Oil Age	kms	Client Info		0	0	---
Filter Age	kms	Client Info		0	0	---
Oil Changed		Client Info		N/A	Changed	---
Filter Changed		Client Info		N/A	Changed	---
Sample Status				NORMAL	ABNORMAL	---
Iron	ppm	ASTM D5185(m)	>90	35	84	---
Chromium	ppm	ASTM D5185(m)	>20	2	4	---
Nickel	ppm	ASTM D5185(m)	>2	<1	<1	---
Titanium	ppm	ASTM D5185(m)	>2	0	0	---
Silver	ppm	ASTM D5185(m)	>2	0	1	---
Aluminum	ppm	ASTM D5185(m)	>20	14	31	---
Lead	ppm	ASTM D5185(m)	>40	3	6	---
Copper	ppm	ASTM D5185(m)	>330	2	27	---
Tin	ppm	ASTM D5185(m)	>15	<1	4	---
Vanadium	ppm	ASTM D5185(m)		0	0	---
Silicon	ppm	ASTM D5185(m)	>25	4	46	---
Potassium	ppm	ASTM D5185(m)	>20	40	114	---
Fuel		WC Method	>3.0	<1.0	▲ 1.7	---
Water		WC Method	>0.2	NEG	NEG	---
Glycol		WC Method		NEG	NEG	---
Soot %	%	ASTM D7844*	>6	0.3	0.2	---
Nitration	Abs/cm	ASTM D7624*	>20	10.1	10.1	---
Sulfation	Abs/.1mm	ASTM D7415*	>30	27.1	24.7	---
Emulsified Water	scalar	Visual*	>0.2	NEG	NEG	---
Sodium	ppm	ASTM D5185(m)	>150	2	6	---
Boron	ppm	ASTM D5185(m)		51	39	---
Barium	ppm	ASTM D5185(m)		0	6	---
Molybdenum	ppm	ASTM D5185(m)		<1	62	---
Manganese	ppm	ASTM D5185(m)		<1	5	---
Magnesium	ppm	ASTM D5185(m)		18	471	---
Calcium	ppm	ASTM D5185(m)		2213	1471	---
Phosphorus	ppm	ASTM D5185(m)		912	987	---
Zinc	ppm	ASTM D5185(m)		1096	1194	---
Sulfur	ppm	ASTM D5185(m)		2788	2457	---
Oxidation	Abs/.1mm	ASTM D7414*	>25	22.6	20.0	---
Visc @ 100°C	cSt	ASTM D7279(m)		13.7	▲ 11.4	---

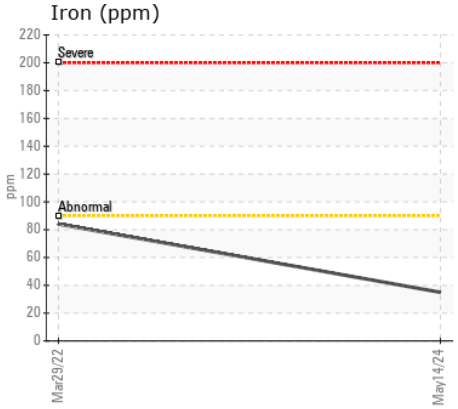
FT-IR (Direct Trend)



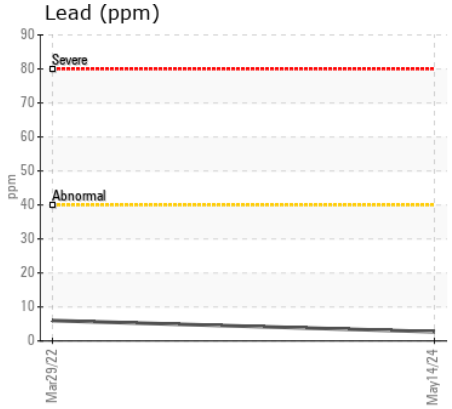
Viscosity @ 100°C



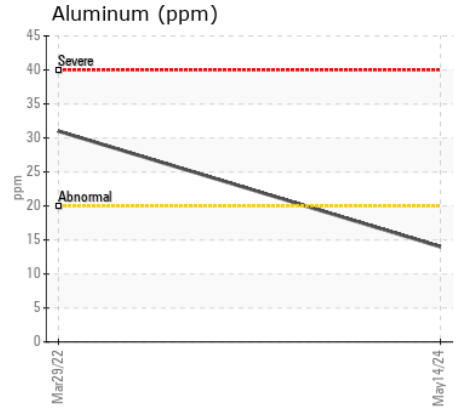
Iron (ppm)



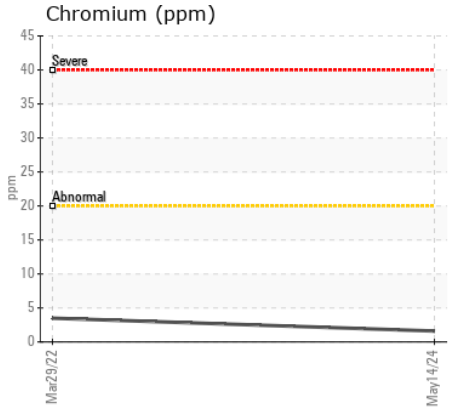
Lead (ppm)



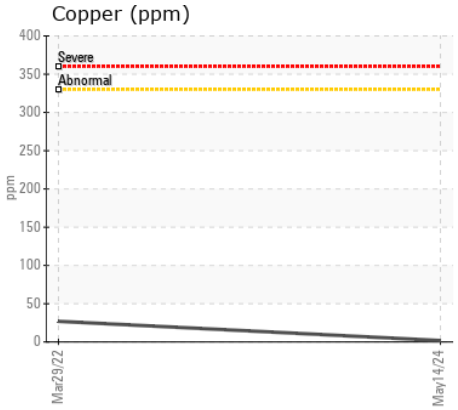
Aluminum (ppm)



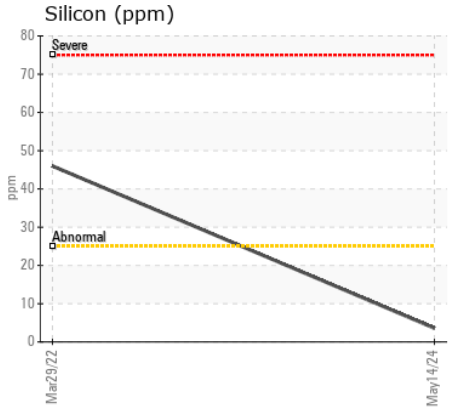
Chromium (ppm)



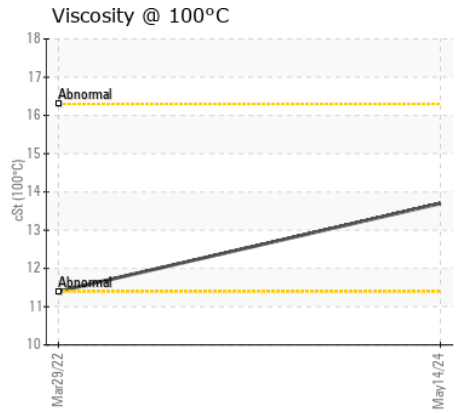
Copper (ppm)



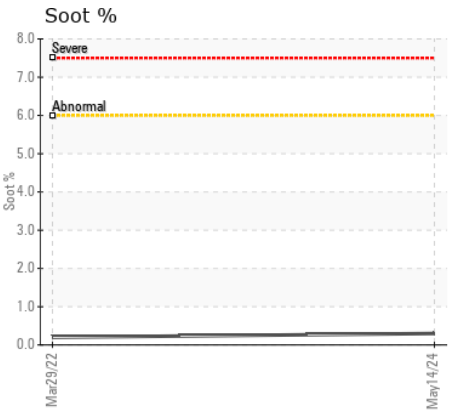
Silicon (ppm)



Viscosity @ 100°C



Soot %



ISO 17025:2017 Accredited Laboratory

Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WC0554144
Lab Number : 02635966
Unique Number : 5785128
Test Package : MOB 1

Received : 16 May 2024
Tested : 16 May 2024
Diagnosed : 16 May 2024 - Wes Davis

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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