MOB I

WEAR CHECK

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Area
[25200]
Machine Id
24-136
Component
Diesel Engine
Fluid
DIESEL ENGINE OIL SAE 15W40 (--- GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

WEAR

Metal levels are typical for a new component breaking in.

CONTAMINATION

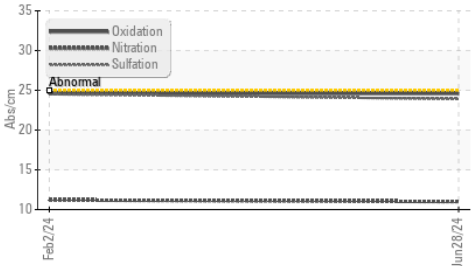
Elevated aluminum (Al) and/or lead (Pb) and potassium (K) levels in your metals analysis are likely a result of solder flux release into the lubricant and is common on new equipment/components. There is no indication of any contamination in the oil.

FLUID CONDITION

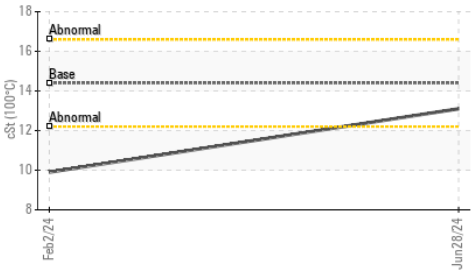
The condition of the oil is acceptable for the time in service.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WC0941358	WC0895431	---
Sample Date		Client Info		28 Jun 2024	02 Feb 2024	---
Machine Age	kms	Client Info		80730	41428	---
Oil Age	kms	Client Info		0	41428	---
Filter Age	kms	Client Info		0	41428	---
Oil Changed		Client Info		Changed	Changed	---
Filter Changed		Client Info		Changed	Changed	---
Sample Status				NORMAL	ABNORMAL	---
Iron	ppm	ASTM D5185(m)	>200	39	57	---
Chromium	ppm	ASTM D5185(m)	>6	3	4	---
Nickel	ppm	ASTM D5185(m)	>3	<1	<1	---
Titanium	ppm	ASTM D5185(m)	>2	0	0	---
Silver	ppm	ASTM D5185(m)	>2	<1	<1	---
Aluminum	ppm	ASTM D5185(m)	>50	40	50	---
Lead	ppm	ASTM D5185(m)	>10	2	3	---
Copper	ppm	ASTM D5185(m)	>50	108	125	---
Tin	ppm	ASTM D5185(m)	>6	2	4	---
Vanadium	ppm	ASTM D5185(m)		0	0	---
White Metal	scalar	Visual*	NONE	NONE	VLITE	---
Yellow Metal	scalar	Visual*	NONE	NONE	NONE	---
Silicon	ppm	ASTM D5185(m)	>50	7	10	---
Potassium	ppm	ASTM D5185(m)	>20	93	131	---
Fuel		WC Method	>3.0	<1.0	0.6	---
Water		WC Method	>0.2	NEG	NEG	---
Glycol		WC Method		NEG	NEG	---
Soot %	%	ASTM D7844*	>3	0.9	0.7	---
Nitration	Abs/cm	ASTM D7624*	>20	11.0	11.2	---
Sulfation	Abs/.1mm	ASTM D7415*	>30	23.9	24.5	---
Silt	scalar	Visual*	NONE	NONE	NONE	---
Debris	scalar	Visual*	NONE	NONE	NONE	---
Sand/Dirt	scalar	Visual*	NONE	NONE	NONE	---
Appearance	scalar	Visual*	NORML	NORML	NORML	---
Odor	scalar	Visual*	NORML	NORML	NORML	---
Emulsified Water	scalar	Visual*	>0.2	NEG	NEG	---
Sodium	ppm	ASTM D5185(m)	>158	3	4	---
Boron	ppm	ASTM D5185(m)	250	23	24	---
Barium	ppm	ASTM D5185(m)	10	<1	<1	---
Molybdenum	ppm	ASTM D5185(m)	100	42	44	---
Manganese	ppm	ASTM D5185(m)		1	3	---
Magnesium	ppm	ASTM D5185(m)	450	518	536	---
Calcium	ppm	ASTM D5185(m)	3000	1745	1731	---
Phosphorus	ppm	ASTM D5185(m)	1150	669	706	---
Zinc	ppm	ASTM D5185(m)	1350	847	849	---
Sulfur	ppm	ASTM D5185(m)	4250	1630	1730	---
Oxidation	Abs/.1mm	ASTM D7414*	>25	24.6	24.6	---
Visc @ 100°C	cSt	ASTM D7279(m)	14.4	13.1	▲ 9.9	---

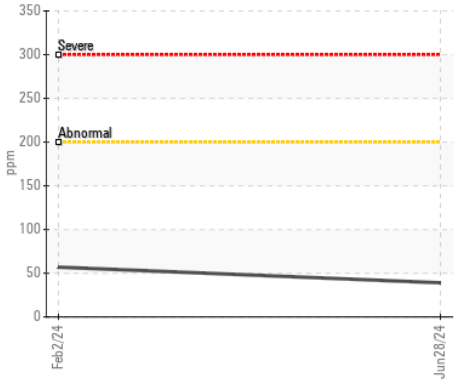
FT-IR (Direct Trend)



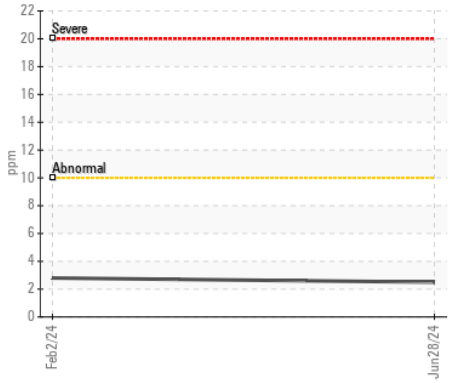
Viscosity @ 100°C



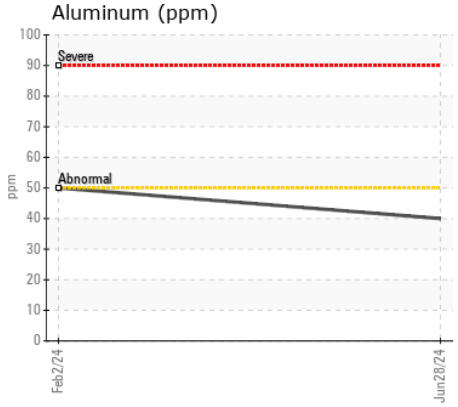
Iron (ppm)



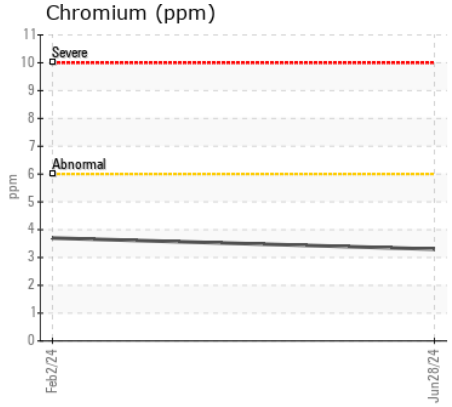
Lead (ppm)



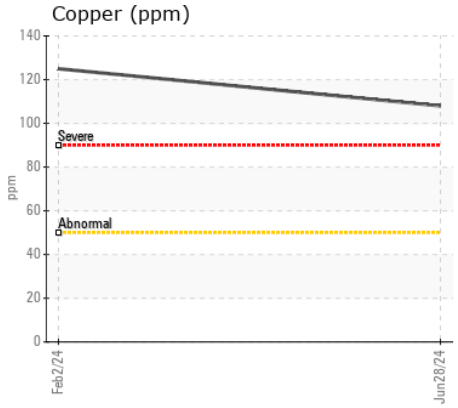
Aluminum (ppm)



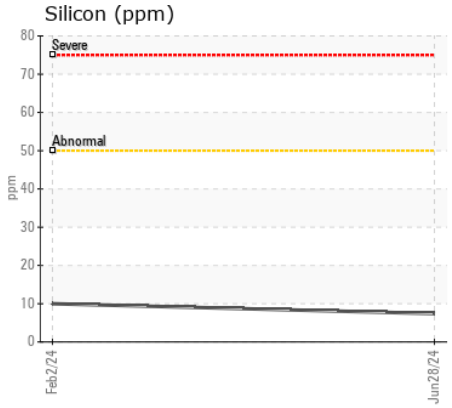
Chromium (ppm)



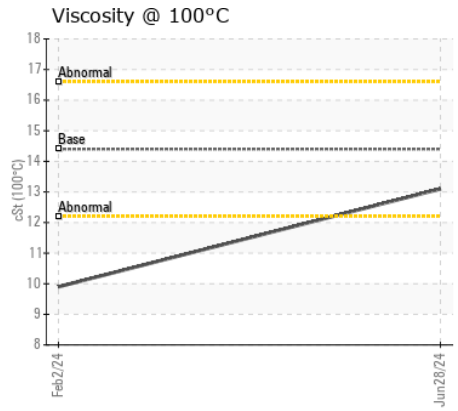
Copper (ppm)



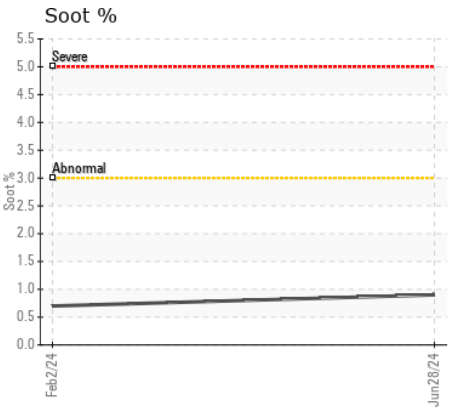
Silicon (ppm)



Viscosity @ 100°C



Soot %



ISO 17025:2017 Accredited Laboratory

Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WC0941358 **Received** : 03 Jul 2024
Lab Number : 02645205 **Tested** : 03 Jul 2024
Unique Number : 5802744 **Diagnosed** : 03 Jul 2024 - Wes Davis
Test Package : MOB 1 (Additional Tests: Visual)

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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