MOB I

WEAR CHECK

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Area
[23847]
Machine Id
21-126
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

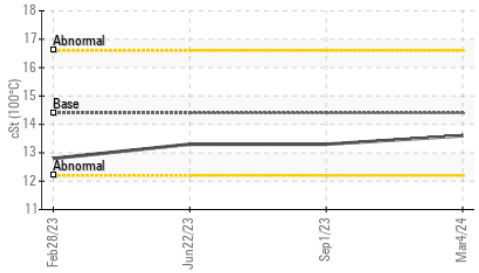
Elevated aluminum (Al) and/or lead (Pb) and potassium (K) levels in your metals analysis are likely a result of solder flux release into the lubricant and is common on new equipment/components. There is no indication of any contamination in the oil.

FLUID CONDITION

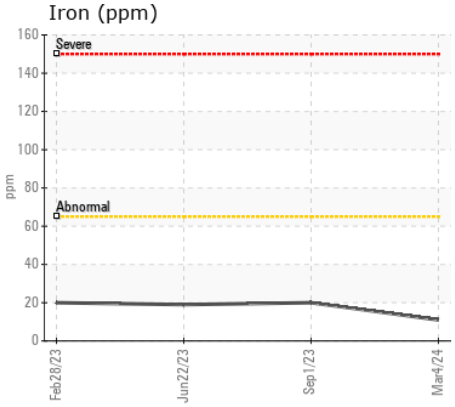
The condition of the oil is acceptable for the time in service.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		**WC0842840**	WC0842889	WC0818031
Sample Date		Client Info		**04 Mar 2024**	01 Sep 2023	22 Jun 2023
Machine Age	kms	Client Info		**3572**	43765	34499
Oil Age	kms	Client Info		**0**	0	0
Filter Age	kms	Client Info		**0**	0	0
Oil Changed		Client Info		**Changed**	Changed	Changed
Filter Changed		Client Info		**Changed**	Changed	Changed
Sample Status				**NORMAL**	NORMAL	NORMAL
Iron	ppm	ASTM D5185(m)	>65	**11**	20	19
Chromium	ppm	ASTM D5185(m)	>5	**1**	4	3
Nickel	ppm	ASTM D5185(m)	>3	**<1**	0	<1
Titanium	ppm	ASTM D5185(m)	>5	**0**	0	0
Silver	ppm	ASTM D5185(m)	>2	**0**	<1	<1
Aluminum	ppm	ASTM D5185(m)	>35	**11**	46	29
Lead	ppm	ASTM D5185(m)	>10	**<1**	<1	1
Copper	ppm	ASTM D5185(m)	>180	**14**	24	55
Tin	ppm	ASTM D5185(m)	>8	**<1**	1	2
Vanadium	ppm	ASTM D5185(m)		**0**	0	0
Silicon	ppm	ASTM D5185(m)	>15	**5**	5	5
Potassium	ppm	ASTM D5185(m)	>20	**18**	97	56
Fuel		WC Method	>3.0	**<1.0**	<1.0	0.7
Water		WC Method	>0.2	**NEG**	NEG	NEG
Glycol		WC Method		**NEG**	NEG	NEG
Soot %	%	ASTM D7844*	>3	**0**	0.1	0.1
Nitration	Abs/cm	ASTM D7624*	>20	**7.0**	8.0	8.8
Sulfation	Abs/.1mm	ASTM D7415*	>30	**22.6**	24.1	22.7
Emulsified Water	scalar	Visual*	>0.2	**NEG**	NEG	NEG
Sodium	ppm	ASTM D5185(m)	>158	**3**	3	3
Boron	ppm	ASTM D5185(m)	250	**39**	28	29
Barium	ppm	ASTM D5185(m)	10	**0**	0	0
Molybdenum	ppm	ASTM D5185(m)	100	**40**	39	40
Manganese	ppm	ASTM D5185(m)		**0**	<1	<1
Magnesium	ppm	ASTM D5185(m)	450	**504**	499	527
Calcium	ppm	ASTM D5185(m)	3000	**1694**	1649	1685
Phosphorus	ppm	ASTM D5185(m)	1150	**754**	727	769
Zinc	ppm	ASTM D5185(m)	1350	**866**	858	878
Sulfur	ppm	ASTM D5185(m)	4250	**2181**	1901	1902
Oxidation	Abs/.1mm	ASTM D7414*	>25	**21.0**	22.0	22.7
Visc @ 100°C	cSt	ASTM D7279(m)	14.4	**13.6**	13.3	13.3

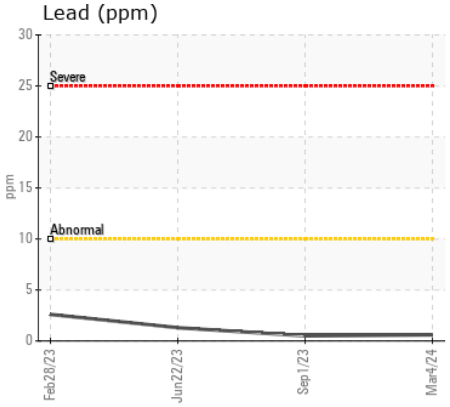
Viscosity @ 100°C



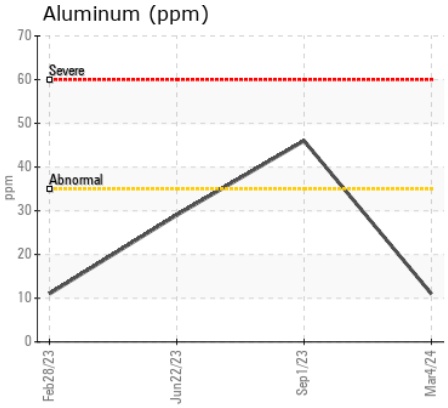
Iron (ppm)



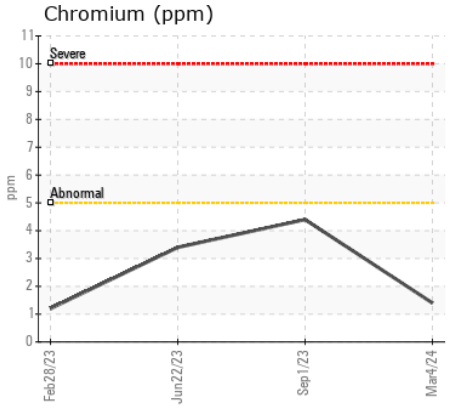
Lead (ppm)



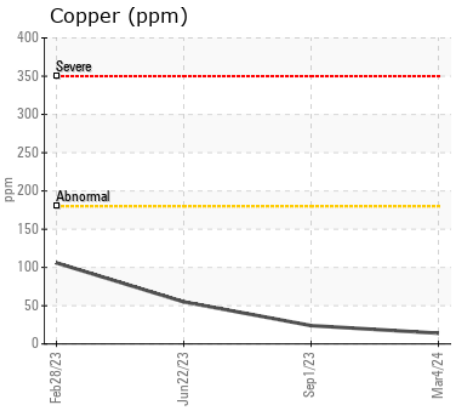
Aluminum (ppm)



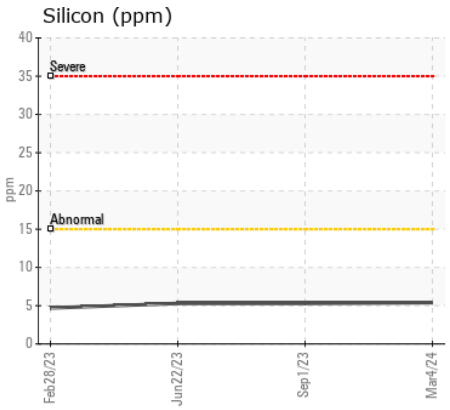
Chromium (ppm)



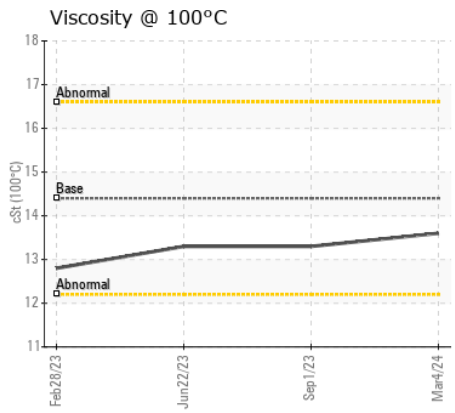
Copper (ppm)



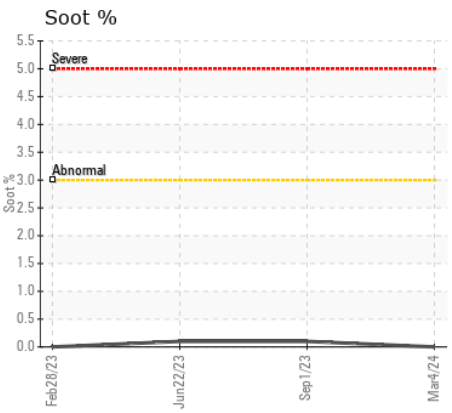
Silicon (ppm)



Viscosity @ 100°C



Soot %



ISO 17025:2017 Accredited Laboratory

Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WC0842840
Lab Number : 02620080
Unique Number : 5737190
Test Package : MOB 1

Received : 06 Mar 2024
Tested : 06 Mar 2024
Diagnosed : 06 Mar 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.

OX FLEET CARE
466 HIGHWAY 52
DUNDAS, ON
CA L9H 5E2
Contact: Robert Hughes
robert.hughes@ox-equipment.com
T: (289)683-6037
F: