MOBIL WEAR CHECK

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
370-2
Component
Diesel Engine
Fluid
DIESEL ENGINE OIL SAE 15W40 (45 LTR)

RECOMMENDATION

Resample at the next service interval to monitor.

WEAR

All component wear rates are normal.

CONTAMINATION

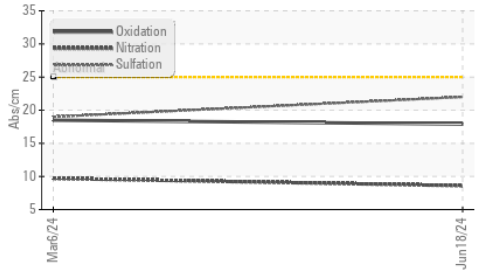
Elevated aluminum (Al) and/or lead (Pb) and potassium (K) levels in your metals analysis are likely a result of solder flux release into the lubricant and is common on new equipment/components. There is no indication of any contamination in the oil.

FLUID CONDITION

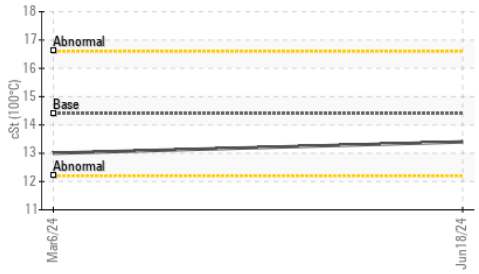
The condition of the oil is acceptable for the time in service.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		**WC0935808**	WC0890786	---
Sample Date		Client Info		**18 Jun 2024**	06 Mar 2024	---
Machine Age	hrs	Client Info		**0**	490	---
Oil Age	hrs	Client Info		**0**	490	---
Filter Age	hrs	Client Info		**0**	490	---
Oil Changed		Client Info		**N/A**	Not Changd	---
Filter Changed		Client Info		**N/A**	Not Changd	---
Sample Status				**NORMAL**	ABNORMAL	---
Iron	ppm	ASTM D5185(m)	>100	**17**	33	---
Chromium	ppm	ASTM D5185(m)	>20	**<1**	3	---
Nickel	ppm	ASTM D5185(m)	>4	**<1**	<1	---
Titanium	ppm	ASTM D5185(m)		**<1**	0	---
Silver	ppm	ASTM D5185(m)	>3	**<1**	1	---
Aluminum	ppm	ASTM D5185(m)	>20	**9**	▲ 64	---
Lead	ppm	ASTM D5185(m)	>40	**<1**	4	---
Copper	ppm	ASTM D5185(m)	>330	**5**	24	---
Tin	ppm	ASTM D5185(m)	>15	**1**	3	---
Vanadium	ppm	ASTM D5185(m)		**0**	0	---
Silicon	ppm	ASTM D5185(m)	>25	**4**	10	---
Potassium	ppm	ASTM D5185(m)	>20	**16**	14	---
Fuel		WC Method	>5	**<1.0**	<1.0	---
Water		WC Method	>0.2	**NEG**	NEG	---
Glycol		WC Method		**NEG**	0.0	---
Soot %	%	ASTM D7844*	>3	**0.1**	0.1	---
Nitration	Abs/cm	ASTM D7624*	>20	**8.6**	9.7	---
Sulfation	Abs/.1mm	ASTM D7415*	>30	**22.0**	19.0	---
Emulsified Water	scalar	Visual*	>0.2	**NEG**	NEG	---
Sodium	ppm	ASTM D5185(m)	>158	**2**	3	---
Boron	ppm	ASTM D5185(m)	250	**91**	80	---
Barium	ppm	ASTM D5185(m)	10	**<1**	13	---
Molybdenum	ppm	ASTM D5185(m)	100	**1**	43	---
Manganese	ppm	ASTM D5185(m)		**<1**	2	---
Magnesium	ppm	ASTM D5185(m)	450	**32**	943	---
Calcium	ppm	ASTM D5185(m)	3000	**2278**	1229	---
Phosphorus	ppm	ASTM D5185(m)	1150	**941**	723	---
Zinc	ppm	ASTM D5185(m)	1350	**1177**	865	---
Sulfur	ppm	ASTM D5185(m)	4250	**2859**	2520	---
Oxidation	Abs/.1mm	ASTM D7414*	>25	**17.9**	18.5	---
Visc @ 40°C	cSt	ASTM D7279(m)	115	**102**	---	---
Visc @ 100°C	cSt	ASTM D7279(m)	14.4	**13.4**	13.0	---
Viscosity Index (VI)	Scale	ASTM D2270*	126	**130**	---	---

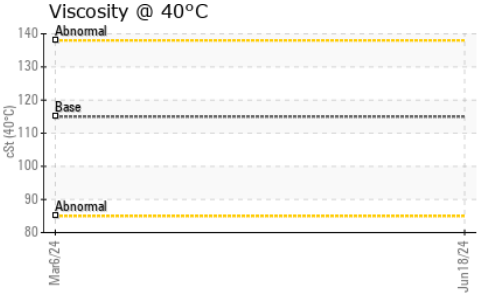
FT-IR (Direct Trend)



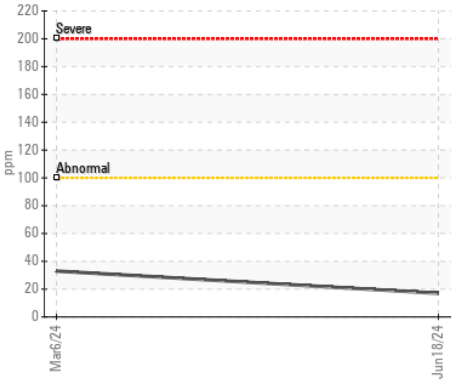
Viscosity @ 100°C



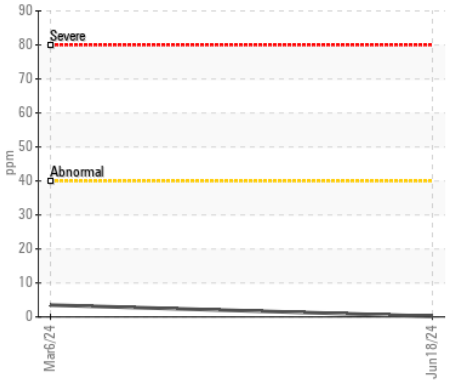
Viscosity @ 40°C



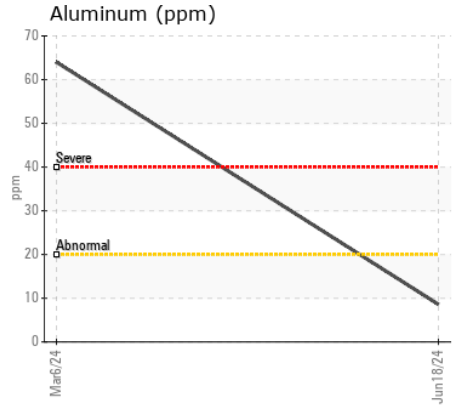
Iron (ppm)



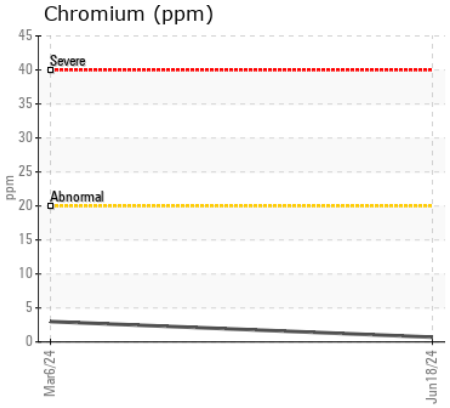
Lead (ppm)



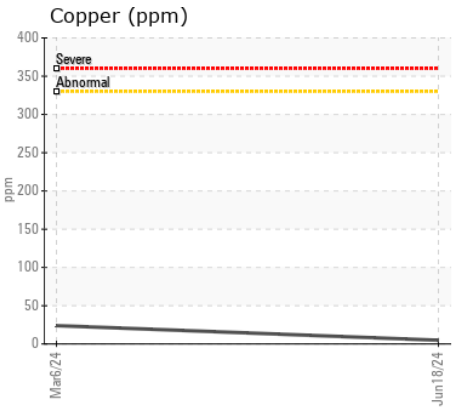
Aluminum (ppm)



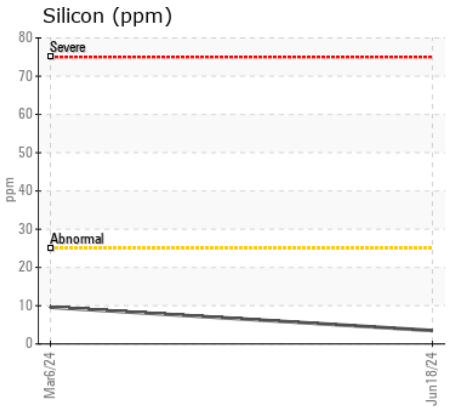
Chromium (ppm)



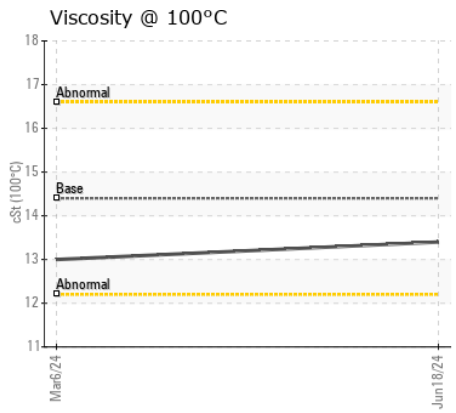
Copper (ppm)



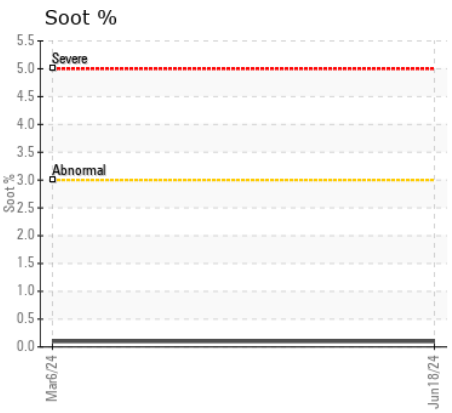
Silicon (ppm)



Viscosity @ 100°C



Soot %



ISO 17025:2017 Accredited Laboratory

Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WC0935808 **Received** : 21 Jun 2024
Lab Number : 02643347 **Tested** : 21 Jun 2024
Unique Number : 5800886 **Diagnosed** : 21 Jun 2024 - Wes Davis
Test Package : MOB 1 (Additional Tests: KV40, VI)

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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