MOB I

WEAR CHECK

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
52965
Component
Diesel Engine
Fluid
DIESEL ENGINE OIL SAE 30 (--- GAL)

RECOMMENDATION

Resample at the next service interval to monitor. The fluid was not specified, however, a fluid match indicates that this fluid is (GENERIC) DIESEL ENGINE OIL SAE 30. Please confirm.

WEAR

Metal levels are typical for a new component breaking in.

CONTAMINATION

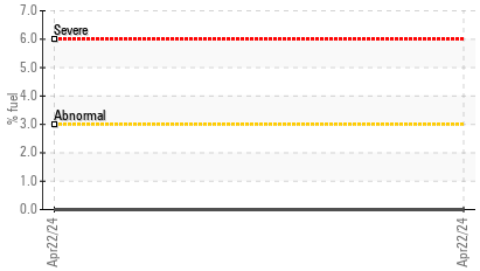
Elevated aluminum (Al) and/or lead (Pb) and potassium (K) levels in your metals analysis are likely a result of solder flux release into the lubricant and is common on new equipment/components. Tests indicate that there is no fuel present in the oil. There is no indication of any contamination in the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

FLUID CONDITION

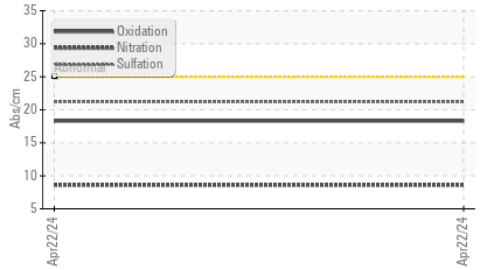
The condition of the oil is acceptable for the time in service.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WC0927589	---	---
Sample Date		Client Info		22 Apr 2024	---	---
Machine Age	mls	Client Info		26506	---	---
Oil Age	mls	Client Info		24110	---	---
Filter Age	mls	Client Info		24110	---	---
Oil Changed		Client Info		Changed	---	---
Filter Changed		Client Info		Changed	---	---
Sample Status				NORMAL	---	---
Iron	ppm	ASTM D5185(m)	>90	67	---	---
Chromium	ppm	ASTM D5185(m)	>20	1	---	---
Nickel	ppm	ASTM D5185(m)	>2	<1	---	---
Titanium	ppm	ASTM D5185(m)	>2	0	---	---
Silver	ppm	ASTM D5185(m)	>2	0	---	---
Aluminum	ppm	ASTM D5185(m)	>20	11	---	---
Lead	ppm	ASTM D5185(m)	>40	3	---	---
Copper	ppm	ASTM D5185(m)	>330	24	---	---
Tin	ppm	ASTM D5185(m)	>15	3	---	---
Vanadium	ppm	ASTM D5185(m)		0	---	---
White Metal	scalar	Visual*	NONE	VLITE	---	---
Yellow Metal	scalar	Visual*	NONE	NONE	---	---
Silicon	ppm	ASTM D5185(m)	>25	35	---	---
Potassium	ppm	ASTM D5185(m)	>20	40	---	---
Fuel	%	ASTM D7593*	>3.0	0.0	---	---
Water		WC Method	>0.2	NEG	---	---
Glycol		WC Method		NEG	---	---
Soot %	%	ASTM D7844*	>6	0.2	---	---
Nitration	Abs/cm	ASTM D7624*	>20	8.6	---	---
Sulfation	Abs/.1mm	ASTM D7415*	>30	21.2	---	---
Silt	scalar	Visual*	NONE	NONE	---	---
Debris	scalar	Visual*	NONE	NONE	---	---
Sand/Dirt	scalar	Visual*	NONE	NONE	---	---
Appearance	scalar	Visual*	NORML	NORML	---	---
Odor	scalar	Visual*	NORML	NORML	---	---
Emulsified Water	scalar	Visual*	>0.2	NEG	---	---
Sodium	ppm	ASTM D5185(m)	>75	4	---	---
Boron	ppm	ASTM D5185(m)	250	63	---	---
Barium	ppm	ASTM D5185(m)	10	5	---	---
Molybdenum	ppm	ASTM D5185(m)	100	64	---	---
Manganese	ppm	ASTM D5185(m)		6	---	---
Magnesium	ppm	ASTM D5185(m)	450	446	---	---
Calcium	ppm	ASTM D5185(m)	3000	1778	---	---
Phosphorus	ppm	ASTM D5185(m)	1150	931	---	---
Zinc	ppm	ASTM D5185(m)	1350	1140	---	---
Sulfur	ppm	ASTM D5185(m)	4250	2335	---	---
Oxidation	Abs/.1mm	ASTM D7414*	>25	18.3	---	---
Visc @ 100°C	cSt	ASTM D7279(m)	10.9	11.5	---	---

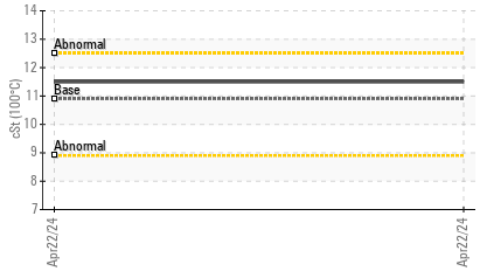
Fuel Dilution



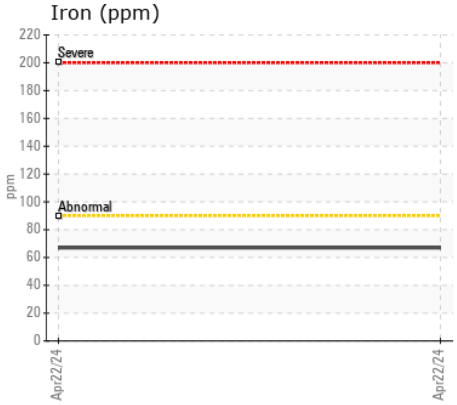
FT-IR (Direct Trend)



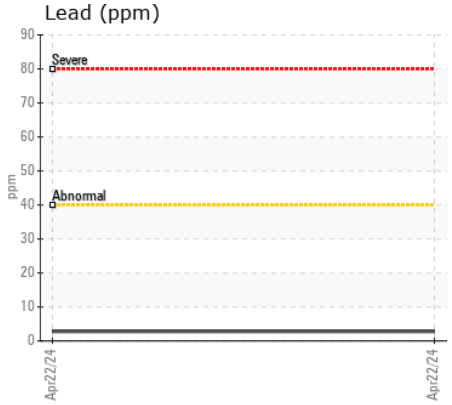
Viscosity @ 100°C



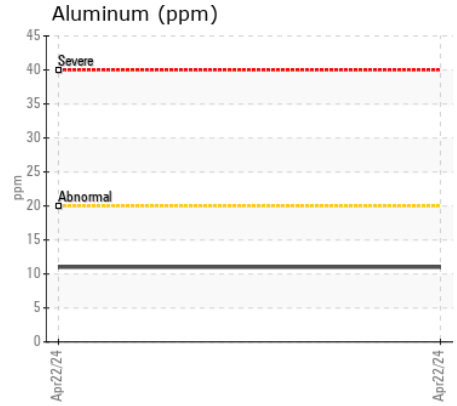
Iron (ppm)



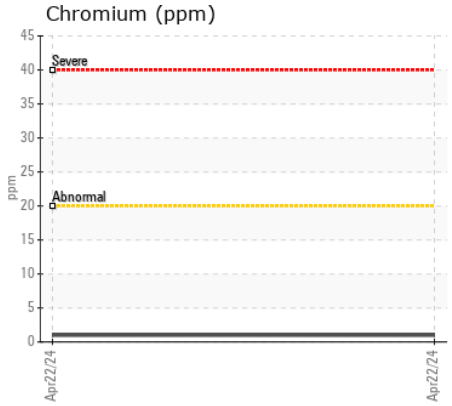
Lead (ppm)



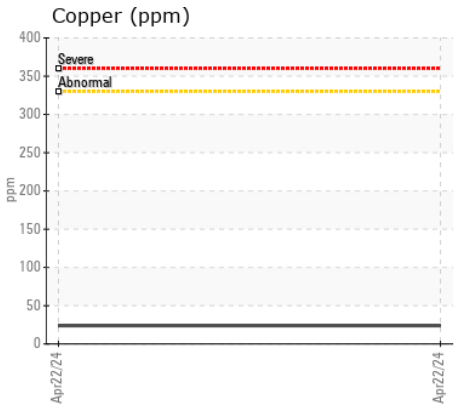
Aluminum (ppm)



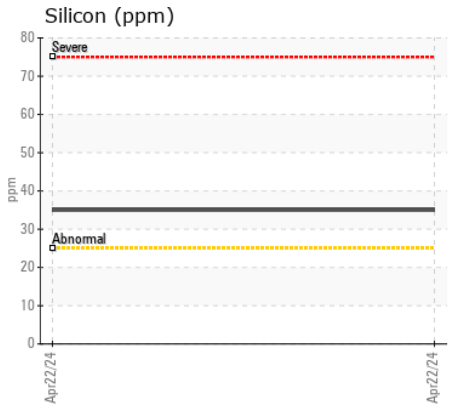
Chromium (ppm)



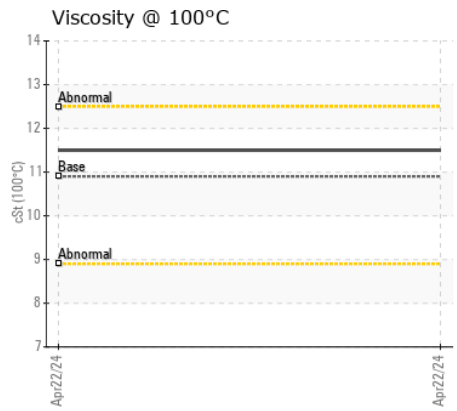
Copper (ppm)



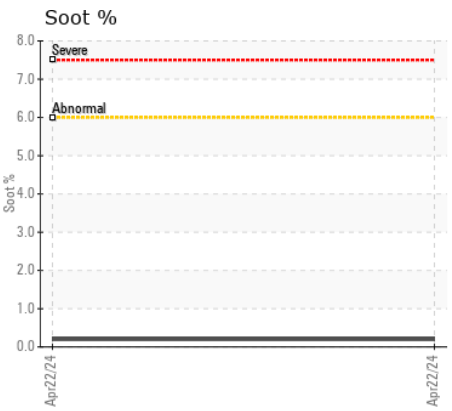
Silicon (ppm)



Viscosity @ 100°C



Soot %



ISO 17025:2017 Accredited Laboratory

Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WC0927589 **Received** : 03 Jun 2024
Lab Number : 02639371 **Tested** : 04 Jun 2024
Unique Number : 5788533 **Diagnosed** : 04 Jun 2024 - Wes Davis
Test Package : MOB 1 (Additional Tests: FuelDilution, PercentFuel, 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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