MOBIL LUBE 360 OIL DIAGNOSTICS

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	MARGINAL
FLUID CONDITION	ABNORMAL

Machine Id
CASE 450 2190605
Component
Diesel Engine
Fluid
DIESEL ENGINE OIL SAE 15W40 (--- GAL)

RECOMMENDATION

The oil change at the time of sampling has been noted. Resample at the next service interval to monitor.

WEAR

All component wear rates are normal.

CONTAMINATION

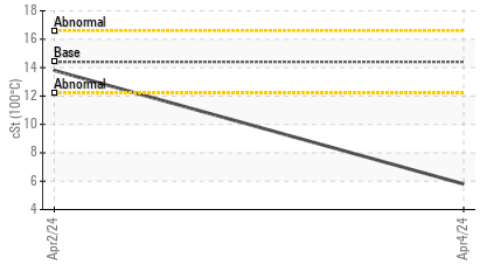
Light fuel dilution occurring.

FLUID CONDITION

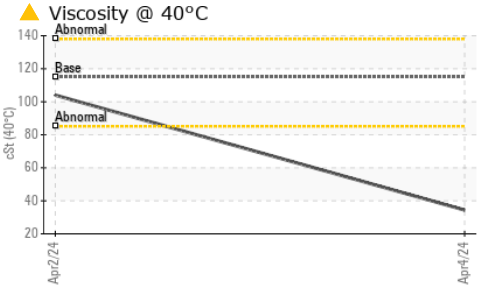
Calcium ppm levels are abnormally low. Phosphorus ppm levels are abnormally low. Zinc ppm levels are abnormally low. Visc @ 100°C is abnormally low. Visc @ 40°C is abnormally low. Fuel is present in the oil and is lowering the viscosity.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		PC0088642	PC0088644	---
Sample Date		Client Info		04 Apr 2024	02 Apr 2024	---
Machine Age	hrs	Client Info		3323	3323	---
Oil Age	hrs	Client Info		500	500	---
Filter Age	hrs	Client Info		500	500	---
Oil Changed		Client Info		Changed	Changed	---
Filter Changed		Client Info		Changed	Changed	---
Sample Status				ABNORMAL	NORMAL	---
Iron	ppm	ASTM D5185(m)	>100	10	4	---
Chromium	ppm	ASTM D5185(m)	>20	0	0	---
Nickel	ppm	ASTM D5185(m)	>4	0	0	---
Titanium	ppm	ASTM D5185(m)		0	0	---
Silver	ppm	ASTM D5185(m)	>3	0	0	---
Aluminum	ppm	ASTM D5185(m)	>20	<1	<1	---
Lead	ppm	ASTM D5185(m)	>40	0	0	---
Copper	ppm	ASTM D5185(m)	>330	7	<1	---
Tin	ppm	ASTM D5185(m)	>15	0	0	---
Vanadium	ppm	ASTM D5185(m)		0	0	---
Silicon	ppm	ASTM D5185(m)	>25	1	3	---
Potassium	ppm	ASTM D5185(m)	>20	<1	4	---
Fuel	%	ASTM D7593*	>5	▲ 2.5	<1.0	---
Water		WC Method	>0.2	NEG	NEG	---
Glycol		WC Method		NEG	NEG	---
Soot %	%	ASTM D7844*	>3	0	0	---
Nitration	Abs/cm	ASTM D7624*	>20	3.1	7.2	---
Sulfation	Abs/.1mm	ASTM D7415*	>30	15.7	21.2	---
Emulsified Water	scalar	Visual*	>0.2	NEG	NEG	---
Sodium	ppm	ASTM D5185(m)	>158	<1	2	---
Boron	ppm	ASTM D5185(m)	250	16	125	---
Barium	ppm	ASTM D5185(m)	10	<1	0	---
Molybdenum	ppm	ASTM D5185(m)	100	2	17	---
Manganese	ppm	ASTM D5185(m)		0	0	---
Magnesium	ppm	ASTM D5185(m)	450	27	216	---
Calcium	ppm	ASTM D5185(m)	3000	▲ 502	1943	---
Phosphorus	ppm	ASTM D5185(m)	1150	▲ 472	862	---
Zinc	ppm	ASTM D5185(m)	1350	▲ 569	986	---
Sulfur	ppm	ASTM D5185(m)	4250	3739	2566	---
Oxidation	Abs/.1mm	ASTM D7414*	>25	6.8	18.9	---
Visc @ 40°C	cSt	ASTM D7279(m)	115	▲ 34.4	104	---
Visc @ 100°C	cSt	ASTM D7279(m)	14.4	▲ 5.8	13.8	---
Viscosity Index (VI)	Scale	ASTM D2270*	126	109	133	---

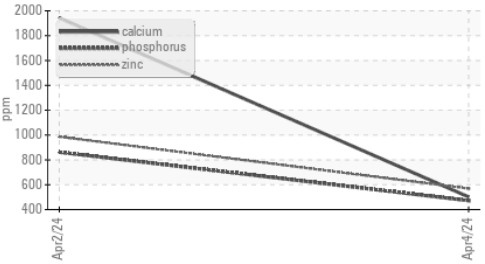
Viscosity @ 100°C



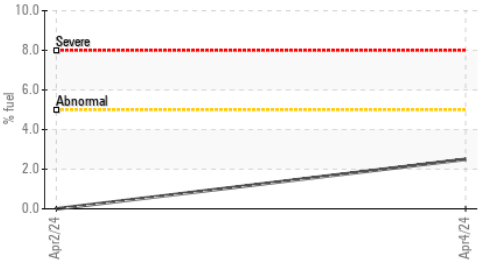
Viscosity @ 40°C



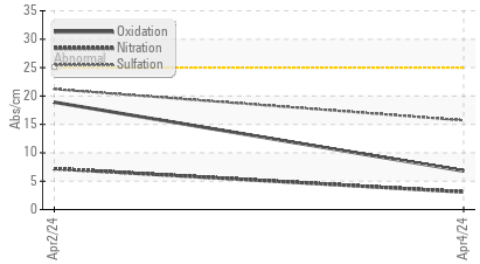
Additives



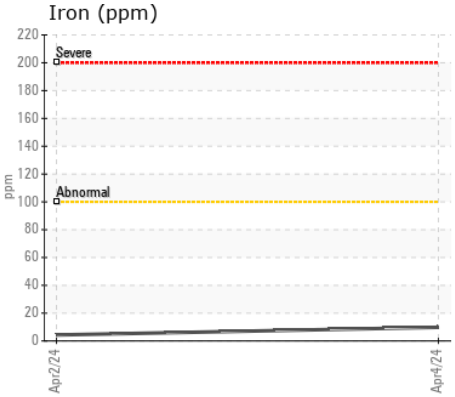
Fuel Dilution



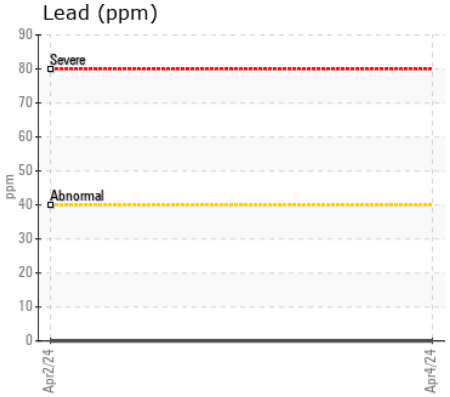
FT-IR (Direct Trend)



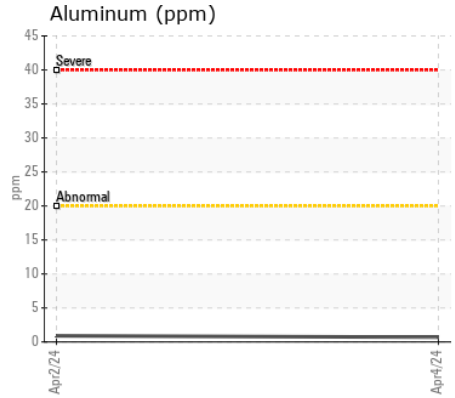
Iron (ppm)



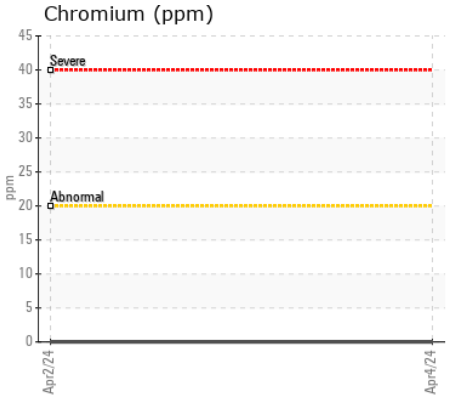
Lead (ppm)



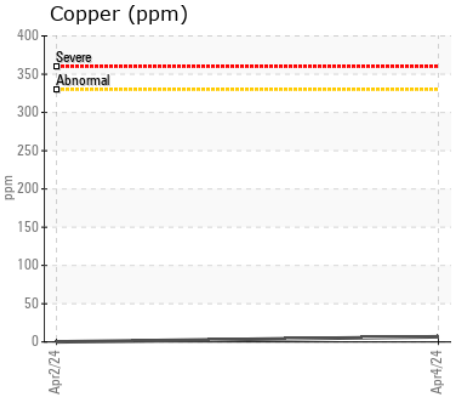
Aluminum (ppm)



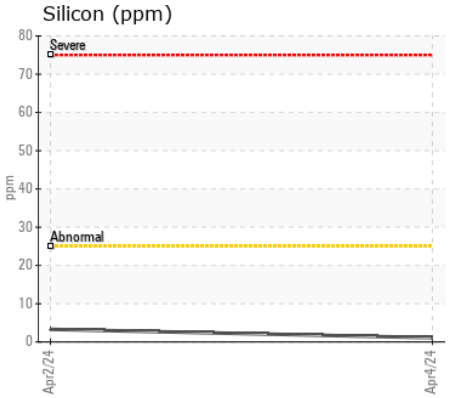
Chromium (ppm)



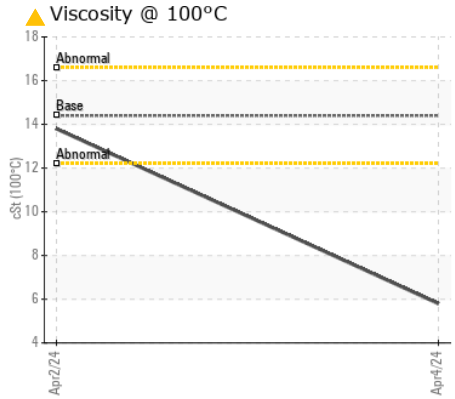
Copper (ppm)



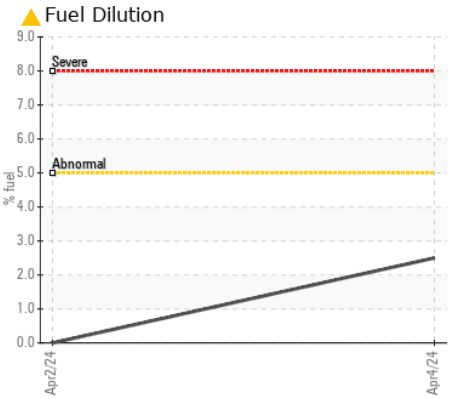
Silicon (ppm)



Viscosity @ 100°C



Fuel Dilution



ISO 17025:2017 Accredited Laboratory

Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : PC0088642 **Received** : 17 May 2024
Lab Number : 02636271 **Tested** : 21 May 2024
Unique Number : 5785433 **Diagnosed** : 21 May 2024 - Wes Davis
Test Package : MOB 1 (Additional Tests: FuelDilution, KV40, PercentFuel, 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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