MOB I

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Area
TERANET [151252]
Machine Id
UNIT #2
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

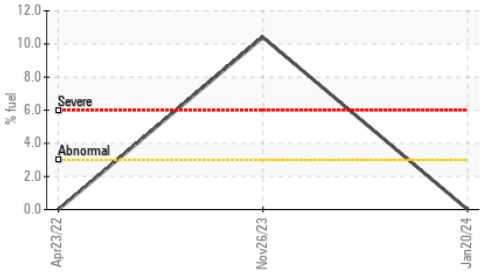
Tests indicate that there is no fuel present in the oil. There is no indication of any contamination in the oil.

FLUID CONDITION

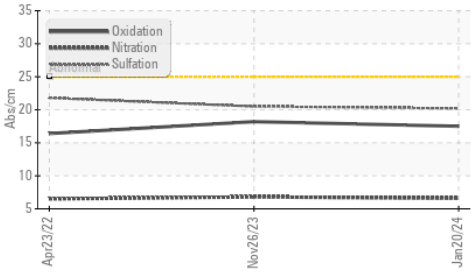
The condition of the oil is acceptable for the time in service.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		CU0021250	CU0021224	CU0019015
Sample Date		Client Info		20 Jan 2024	26 Nov 2023	23 Apr 2022
Machine Age	hrs	Client Info		231	229	0
Oil Age	hrs	Client Info		0	0	0
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Filter Changed		Client Info		N/A	N/A	N/A
Sample Status				NORMAL	SEVERE	NORMAL
Iron	ppm	ASTM D5185(m)	>90	2	2	2
Chromium	ppm	ASTM D5185(m)	>20	0	0	0
Nickel	ppm	ASTM D5185(m)	>2	0	0	<1
Titanium	ppm	ASTM D5185(m)	>2	0	0	0
Silver	ppm	ASTM D5185(m)	>2	0	<1	0
Aluminum	ppm	ASTM D5185(m)	>20	<1	<1	<1
Lead	ppm	ASTM D5185(m)	>40	0	2	<1
Copper	ppm	ASTM D5185(m)	>330	23	31	<1
Tin	ppm	ASTM D5185(m)	>15	0	<1	<1
Vanadium	ppm	ASTM D5185(m)		0	0	0
Silicon	ppm	ASTM D5185(m)	>25	6	4	6
Potassium	ppm	ASTM D5185(m)	>20	<1	0	0
Fuel	%	ASTM D7593*	>3.0	0.0	▲ 10.4	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	ASTM D7844*	>6	0	0	0
Nitration	Abs/cm	ASTM D7624*	>20	6.6	6.8	6.5
Sulfation	Abs/.1mm	ASTM D7415*	>30	20.2	20.5	21.8
Emulsified Water	scalar	Visual*	>0.2	NEG	NEG	NEG
Sodium	ppm	ASTM D5185(m)	>158	3	3	3
Boron	ppm	ASTM D5185(m)	250	43	38	44
Barium	ppm	ASTM D5185(m)	10	0	<1	0
Molybdenum	ppm	ASTM D5185(m)	100	46	42	40
Manganese	ppm	ASTM D5185(m)		<1	0	<1
Magnesium	ppm	ASTM D5185(m)	450	797	727	682
Calcium	ppm	ASTM D5185(m)	3000	1147	1031	1263
Phosphorus	ppm	ASTM D5185(m)	1150	694	624	779
Zinc	ppm	ASTM D5185(m)	1350	805	733	870
Sulfur	ppm	ASTM D5185(m)	4250	2047	1732	2069
Oxidation	Abs/.1mm	ASTM D7414*	>25	17.5	18.2	16.4
Visc @ 40°C	cSt	ASTM D7279(m)	115	112	---	---
Visc @ 100°C	cSt	ASTM D7279(m)	14.4	14.7	▲ 10.6	14.0
Viscosity Index (VI)	Scale	ASTM D2270*	126	134	---	---

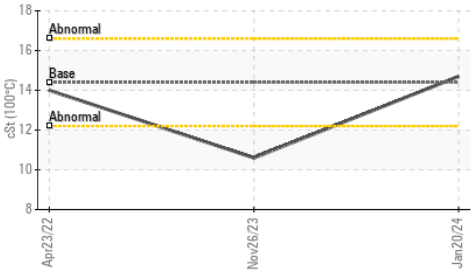
Fuel Dilution



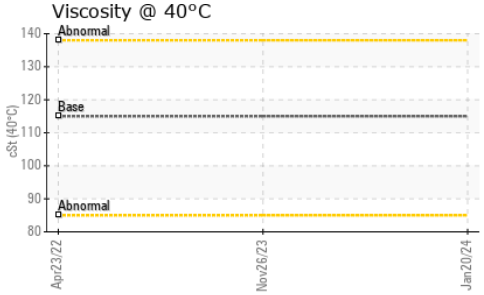
FT-IR (Direct Trend)



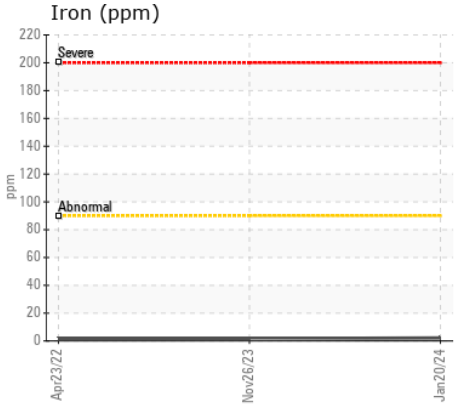
Viscosity @ 100°C



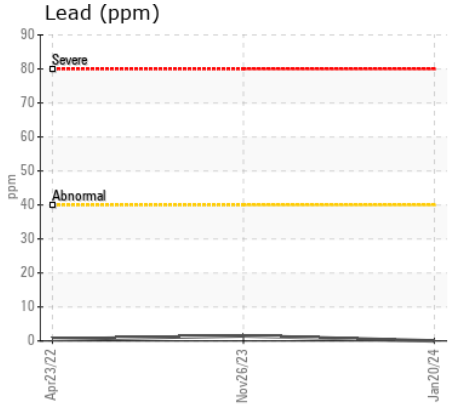
Viscosity @ 40°C



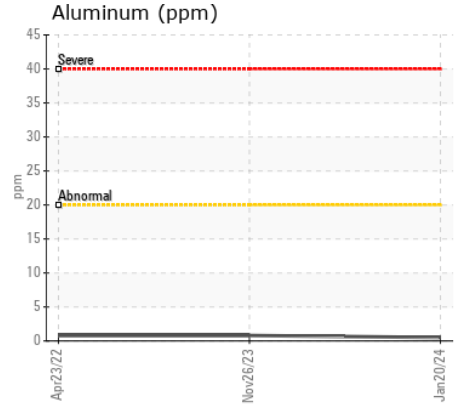
Iron (ppm)



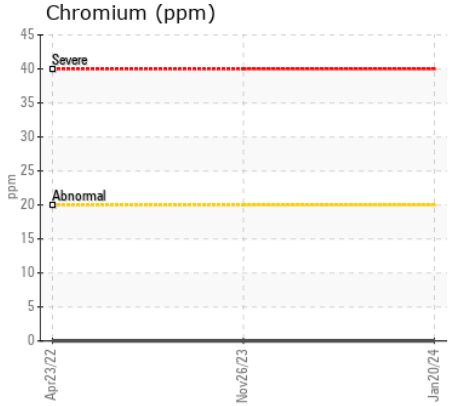
Lead (ppm)



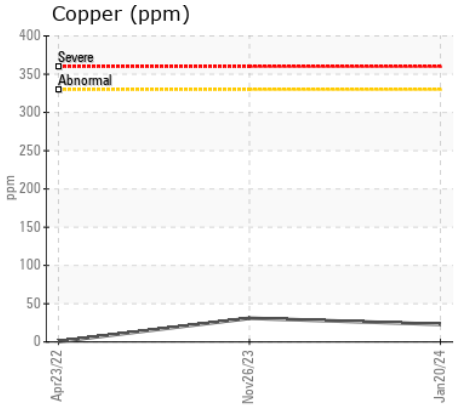
Aluminum (ppm)



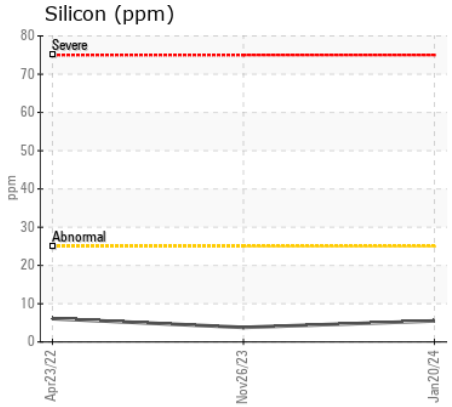
Chromium (ppm)



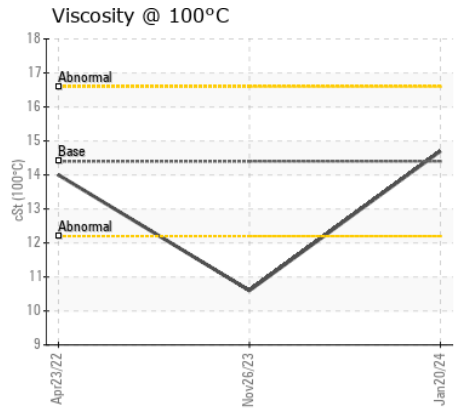
Copper (ppm)



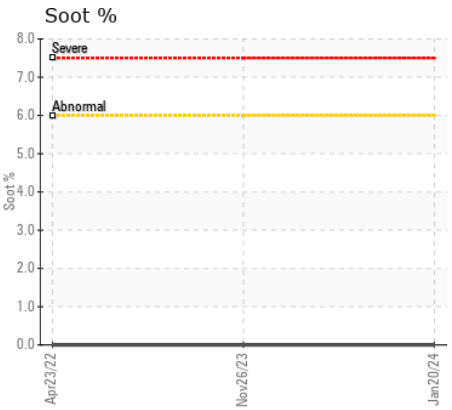
Silicon (ppm)



Viscosity @ 100°C



Soot %



ISO 17025:2017 Accredited Laboratory

Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : CU0021250
Lab Number : 02640828
Unique Number : 5789990
Test Package : MOB 1 (Additional Tests: KV40, PercentFuel, VI)

Received : 10 Jun 2024
Tested : 11 Jun 2024
Diagnosed : 11 Jun 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.

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