

Machine Id
1254
Component
Diesel Engine
Fluid
DIESEL ENGINE OIL SAE 15W40 (--- GAL)

RECOMMENDATION

Resample at the next service interval to monitor. Please specify the component make and model with your next sample.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		PC0072156	PC0083682	PC0072339
Sample Date		Client Info		07 Jan 2024	26 Dec 2023	10 May 2023
Machine Age	hrs	Client Info		4464	4452	3358
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	NORMAL	NORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>100	2	4	10
Chromium	ppm	ASTM D5185(m)	>20	0	<1	<1
Nickel	ppm	ASTM D5185(m)	>4	<1	<1	<1
Titanium	ppm	ASTM D5185(m)		0	0	<1
Silver	ppm	ASTM D5185(m)	>3	0	0	0
Aluminum	ppm	ASTM D5185(m)	>20	2	5	12
Lead	ppm	ASTM D5185(m)	>40	<1	0	<1
Copper	ppm	ASTM D5185(m)	>330	3	13	25
Tin	ppm	ASTM D5185(m)	>15	0	<1	2
Vanadium	ppm	ASTM D5185(m)		0	0	0
White Metal	scalar	Visual*	NONE	VLITE	NONE	---
Yellow Metal	scalar	Visual*	NONE	NONE	NONE	---

CONTAMINATION

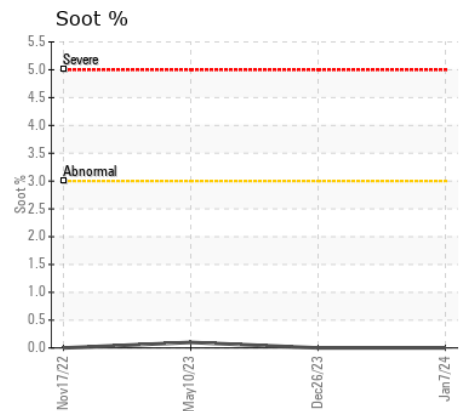
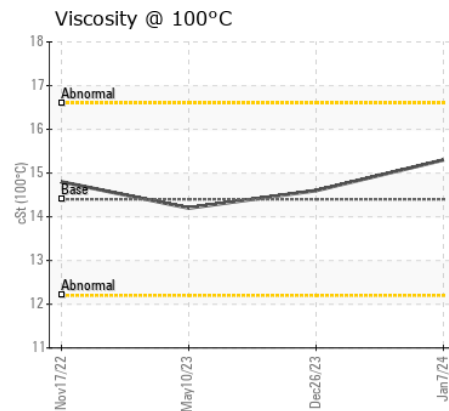
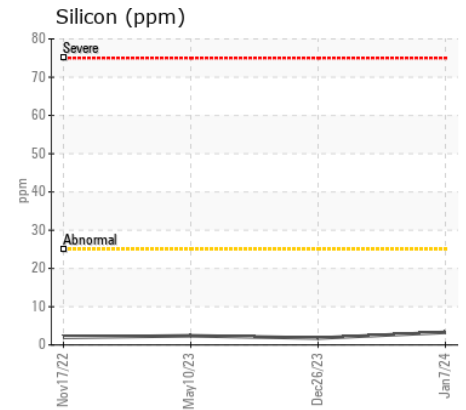
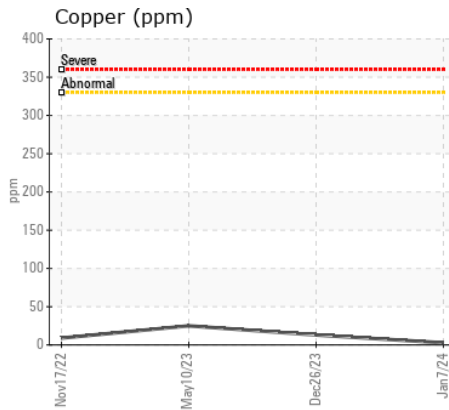
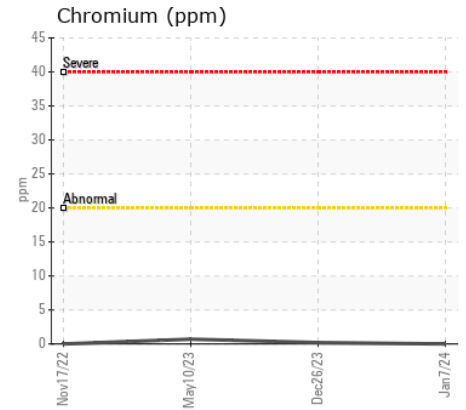
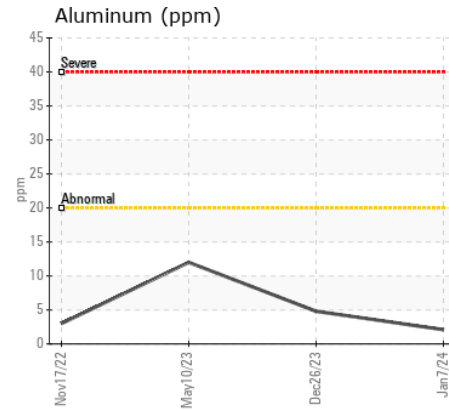
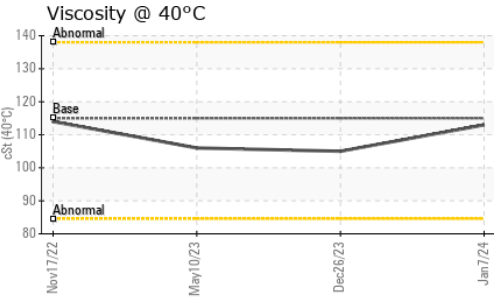
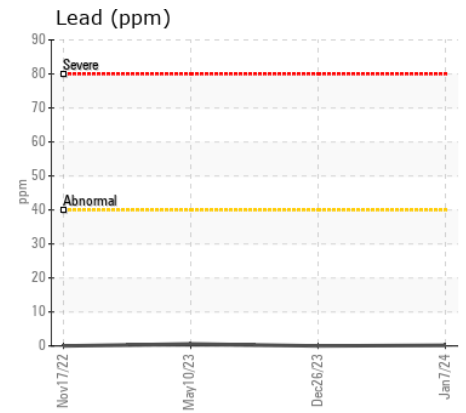
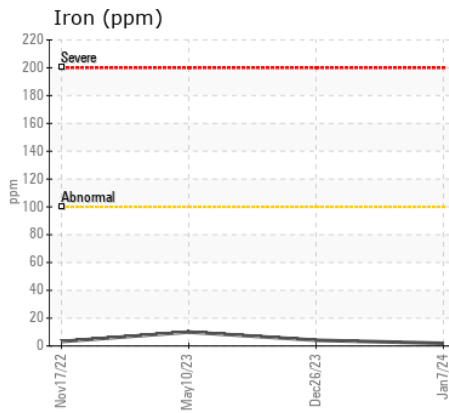
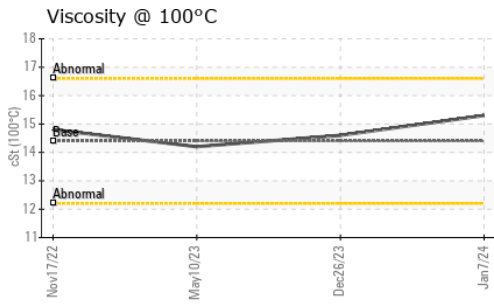
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>25	3	2	2
Potassium	ppm	ASTM D5185(m)	>20	2	6	17
Fuel		WC Method	>5	<1.0	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	ASTM D7844*	>3	0	0	0.1
Nitration	Abs/cm	ASTM D7624*	>20	4.5	5.3	6.7
Sulfation	Abs/.1mm	ASTM D7415*	>30	17.8	17.3	19.3
Silt	scalar	Visual*	NONE	NONE	NONE	---
Debris	scalar	Visual*	NONE	NONE	NONE	---
Sand/Dirt	scalar	Visual*	NONE	NONE	VLITE	---
Appearance	scalar	Visual*	NORML	NORML	NORML	---
Odor	scalar	Visual*	NORML	NORML	NORML	NORML
Emulsified Water	scalar	Visual*	>0.2	NEG	NEG	NEG

FLUID CONDITION

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

Sodium	ppm	ASTM D5185(m)	>158	<1	1	1
Boron	ppm	ASTM D5185(m)	250	<1	2	<1
Barium	ppm	ASTM D5185(m)	10	0	0	0
Molybdenum	ppm	ASTM D5185(m)	100	57	56	61
Manganese	ppm	ASTM D5185(m)		0	0	<1
Magnesium	ppm	ASTM D5185(m)	450	962	937	992
Calcium	ppm	ASTM D5185(m)	3000	1023	1014	1129
Phosphorus	ppm	ASTM D5185(m)	1150	1014	963	1102
Zinc	ppm	ASTM D5185(m)	1350	1175	1133	1217
Sulfur	ppm	ASTM D5185(m)	4250	2808	2593	2713
Oxidation	Abs/.1mm	ASTM D7414*	>25	13.0	12.5	14.4
Visc @ 40°C	cSt	ASTM D7279(m)	115	113	105	106
Visc @ 100°C	cSt	ASTM D7279(m)	14.4	15.3	14.6	14.2
Viscosity Index (VI)	Scale	ASTM D2270*	126	141	143	136



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 LES ENTREPRISES MICHAUVILLE INC.
Sample No. : PC0072156 **Received** : 08 Jan 2024
Lab Number : 02606984 **Diagnosed** : 08 Jan 2024
Unique Number : 5708070 **Diagnostician** : Wes Davis
Test Package : MOB 1 (Additional Tests: KV40, VI, 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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