

Machine Id  
**76101**  
Component  
**Diesel Engine**  
Fluid  
**DIESEL ENGINE OIL SAE 5W40 (--- 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		<b>PC0083744</b>	PC0077407	PC0075861
Sample Date		Client Info		<b>19 Feb 2024</b>	17 Dec 2023	10 Oct 2023
Machine Age	hrs	Client Info		<b>20954</b>	20390	19937
Oil Age	hrs	Client Info		<b>0</b>	0	0
Filter Age	hrs	Client Info		<b>0</b>	0	0
Oil Changed		Client Info		<b>N/A</b>	N/A	N/A
Filter Changed		Client Info		<b>N/A</b>	N/A	N/A
Sample Status				<b>NORMAL</b>	NORMAL	NORMAL

**WEAR**

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>100	<b>6</b>	4	4
Chromium	ppm	ASTM D5185(m)	>20	<b>2</b>	1	1
Nickel	ppm	ASTM D5185(m)	>4	<b>&lt;1</b>	0	0
Titanium	ppm	ASTM D5185(m)		<b>0</b>	0	0
Silver	ppm	ASTM D5185(m)	>3	<b>0</b>	<1	<1
Aluminum	ppm	ASTM D5185(m)	>20	<b>3</b>	2	2
Lead	ppm	ASTM D5185(m)	>40	<b>0</b>	0	0
Copper	ppm	ASTM D5185(m)	>330	<b>&lt;1</b>	<1	<1
Tin	ppm	ASTM D5185(m)	>15	<b>0</b>	0	0
Vanadium	ppm	ASTM D5185(m)		<b>0</b>	0	0

**CONTAMINATION**

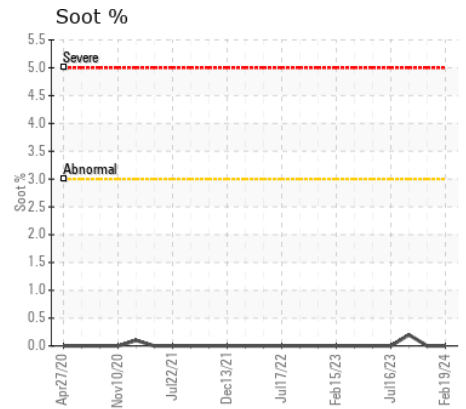
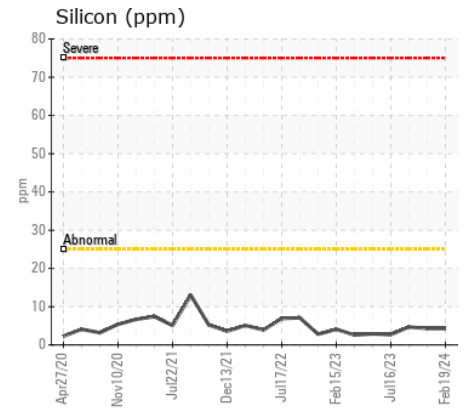
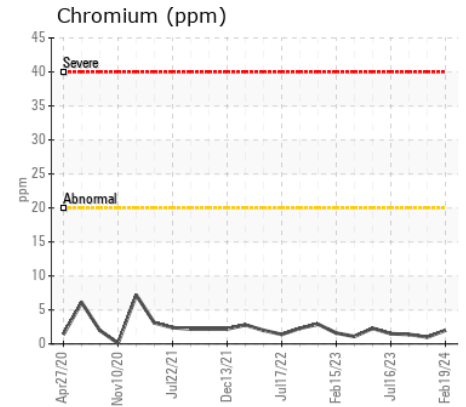
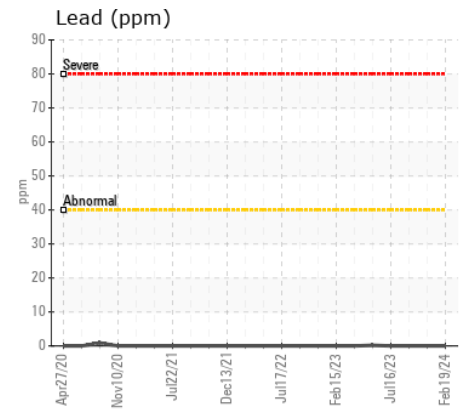
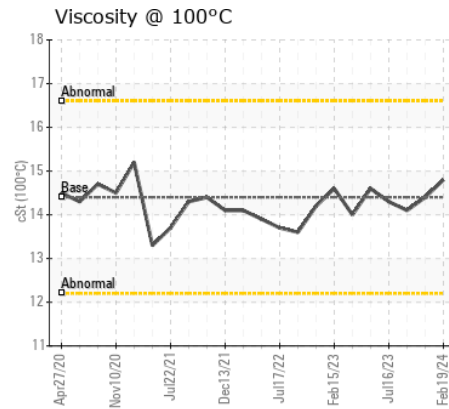
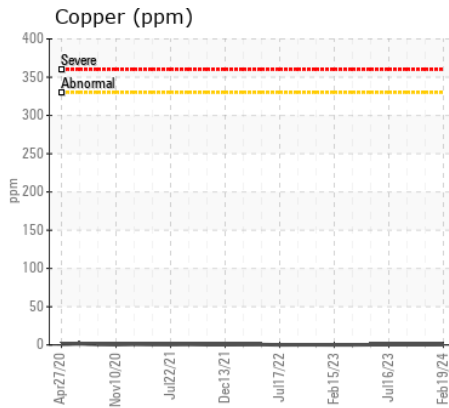
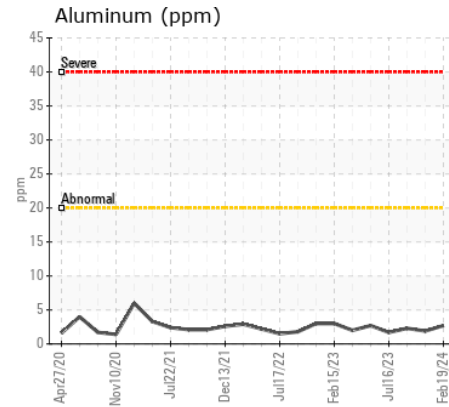
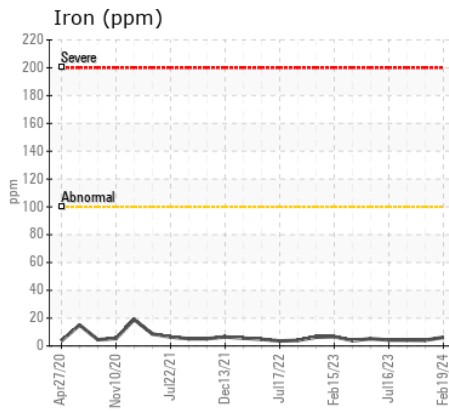
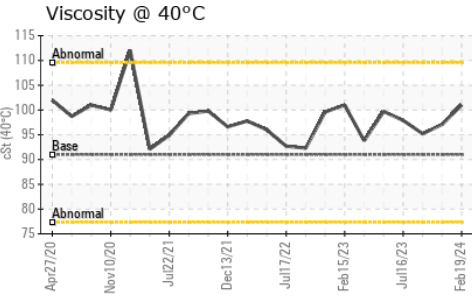
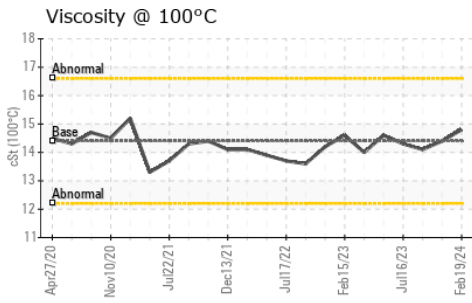
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>25	<b>4</b>	4	5
Potassium	ppm	ASTM D5185(m)	>20	<b>&lt;1</b>	0	0
Fuel		WC Method	>5	<b>&lt;1.0</b>	<1.0	<1.0
Water		WC Method	>0.2	<b>NEG</b>	NEG	NEG
Glycol		WC Method		<b>NEG</b>	NEG	NEG
Soot %	%	ASTM D7844*	>3	<b>0</b>	0	0.2
Nitration	Abs/cm	ASTM D7624*	>20	<b>6.6</b>	5.9	8.8
Sulfation	Abs/.1mm	ASTM D7415*	>30	<b>20.2</b>	20.3	19.3
Emulsified Water	scalar	Visual*	>0.2	<b>NEG</b>	NEG	NEG

**FLUID CONDITION**

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

Sodium	ppm	ASTM D5185(m)	>44	<b>&lt;1</b>	1	2
Boron	ppm	ASTM D5185(m)	250	<b>1</b>	1	2
Barium	ppm	ASTM D5185(m)	10	<b>0</b>	<1	<1
Molybdenum	ppm	ASTM D5185(m)	100	<b>60</b>	57	58
Manganese	ppm	ASTM D5185(m)		<b>0</b>	0	0
Magnesium	ppm	ASTM D5185(m)	450	<b>1001</b>	945	950
Calcium	ppm	ASTM D5185(m)	3000	<b>1275</b>	1292	1312
Phosphorus	ppm	ASTM D5185(m)	1150	<b>1025</b>	995	1031
Zinc	ppm	ASTM D5185(m)	1350	<b>1217</b>	1206	1260
Sulfur	ppm	ASTM D5185(m)	4250	<b>2716</b>	2572	2632
Oxidation	Abs/.1mm	ASTM D7414*	>25	<b>16.3</b>	16.2	14.6
Visc @ 40°C	cSt	ASTM D7279(m)	91	<b>101</b>	97.1	95.2
Visc @ 100°C	cSt	ASTM D7279(m)	14.4	<b>14.8</b>	14.4	14.1
Viscosity Index (VI)	Scale	ASTM D2270*	164	<b>152</b>	153	151



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : PC0083744  
**Lab Number** : 02616555  
**Unique Number** : 5733665  
**Test Package** : MOB 1 ( Additional Tests: KV40, VI )  
**Received** : 20 Feb 2024  
**Tested** : 20 Feb 2024  
**Diagnosed** : 20 Feb 2024 - Wes Davis

**LES ENTREPRISES MICHAUVILLE INC.**  
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 Contact: Martin Trudel  
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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.