



WEAR	<b>NORMAL</b>
CONTAMINATION	<b>NORMAL</b>
FLUID CONDITION	<b>NORMAL</b>

Machine Id  
**F55066**  
 Component  
**Diesel Engine**  
 Fluid  
**DIESEL ENGINE OIL SAE 5W40 (--- 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 5W40. Please confirm.  
 Please specify the component make and model with your next sample.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>PC0088922</b>	PC0082356	---
Sample Date		Client Info		<b>17 Jun 2024</b>	02 Nov 2023	---
Machine Age	hrs	Client Info		<b>954</b>	620	---
Oil Age	hrs	Client Info		<b>0</b>	0	---
Filter Age	hrs	Client Info		<b>0</b>	0	---
Oil Changed		Client Info		<b>N/A</b>	N/A	---
Filter Changed		Client Info		<b>N/A</b>	N/A	---
Sample Status				<b>NORMAL</b>	ABNORMAL	---

**WEAR**

Metal levels are typical for a new component breaking in.

Iron	ppm	ASTM D5185(m)	>100	<b>32</b>	54	---
Chromium	ppm	ASTM D5185(m)	>20	<b>&lt;1</b>	1	---
Nickel	ppm	ASTM D5185(m)	>4	<b>&lt;1</b>	<1	---
Titanium	ppm	ASTM D5185(m)		<b>0</b>	0	---
Silver	ppm	ASTM D5185(m)	>3	<b>&lt;1</b>	<1	---
Aluminum	ppm	ASTM D5185(m)	>20	<b>3</b>	5	---
Lead	ppm	ASTM D5185(m)	>40	<b>3</b>	9	---
Copper	ppm	ASTM D5185(m)	>330	<b>63</b>	342	---
Tin	ppm	ASTM D5185(m)	>15	<b>0</b>	<1	---
Vanadium	ppm	ASTM D5185(m)		<b>0</b>	0	---
White Metal	scalar	Visual*	NONE	<b>NONE</b>	---	---
Yellow Metal	scalar	Visual*	NONE	<b>NONE</b>	---	---

**CONTAMINATION**

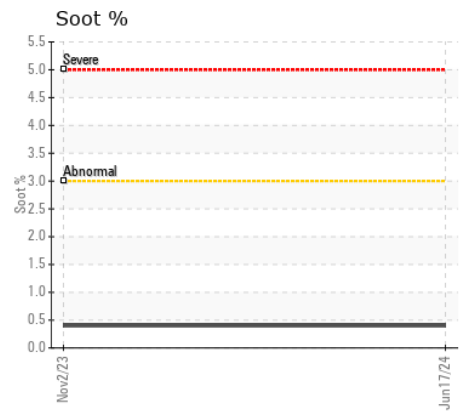
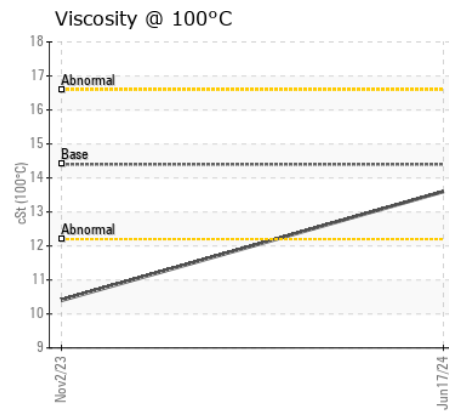
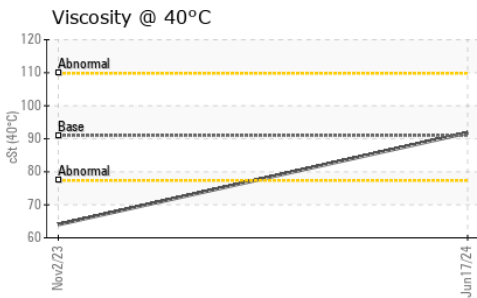
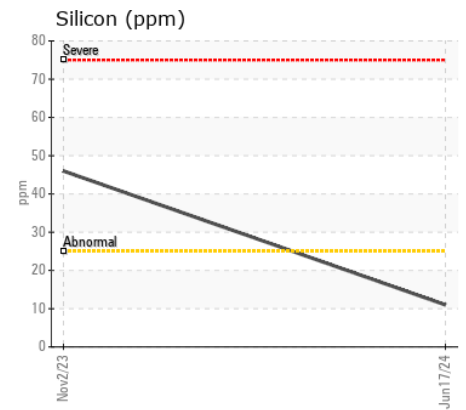
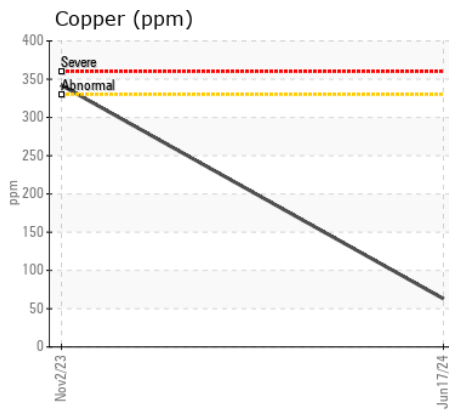
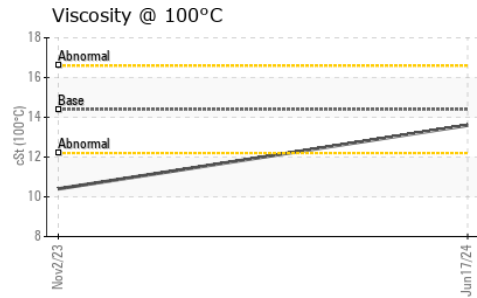
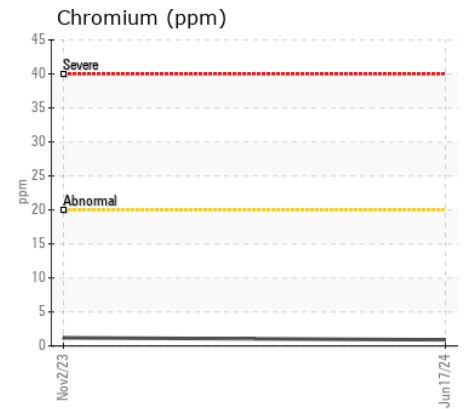
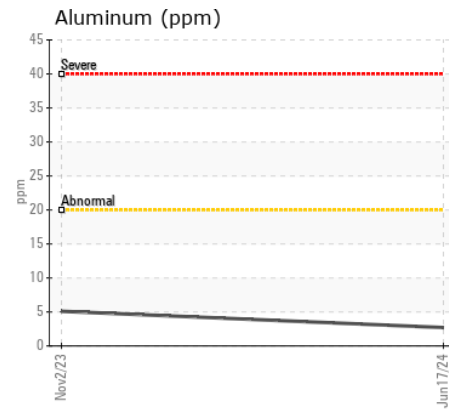
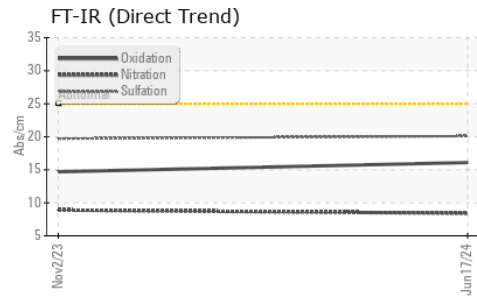
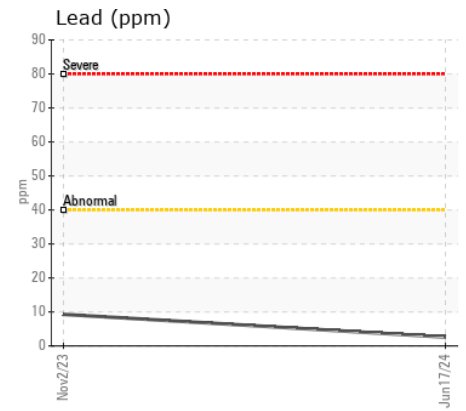
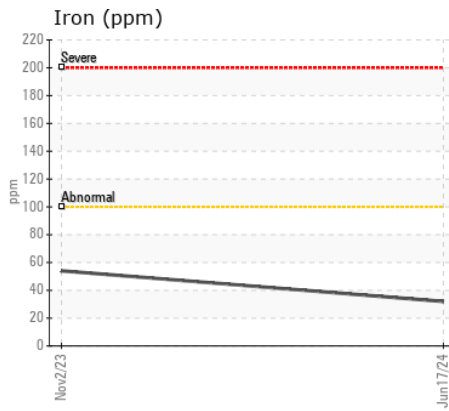
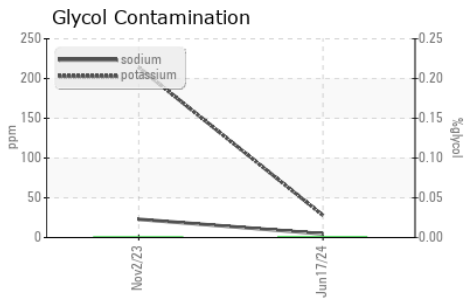
Test for glycol is negative. There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>25	<b>11</b>	46	---
Potassium	ppm	ASTM D5185(m)	>20	<b>28</b>	▲ 214	---
Fuel		WC Method	>5	<b>&lt;1.0</b>	▲ 2.1	---
Water		WC Method	>0.2	<b>NEG</b>	NEG	---
Glycol	%	ASTM D7922*		<b>0.0</b>	0.0	---
Soot %	%	ASTM D7844*	>3	<b>0.4</b>	0.4	---
Nitration	Abs/cm	ASTM D7624*	>20	<b>8.4</b>	8.9	---
Sulfation	Abs/.1mm	ASTM D7415*	>30	<b>20.1</b>	19.7	---
Silt	scalar	Visual*	NONE	<b>VLITE</b>	---	---
Debris	scalar	Visual*	NONE	<b>NONE</b>	---	---
Sand/Dirt	scalar	Visual*	NONE	<b>NONE</b>	---	---
Appearance	scalar	Visual*	NORML	<b>NORML</b>	---	---
Odor	scalar	Visual*	NORML	<b>NORML</b>	NORML	---
Emulsified Water	scalar	Visual*	>0.2	<b>NEG</b>	NEG	---

**FLUID CONDITION**

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

Sodium	ppm	ASTM D5185(m)	>44	<b>5</b>	23	---
Boron	ppm	ASTM D5185(m)	250	<b>11</b>	157	---
Barium	ppm	ASTM D5185(m)	10	<b>1</b>	8	---
Molybdenum	ppm	ASTM D5185(m)	100	<b>73</b>	190	---
Manganese	ppm	ASTM D5185(m)		<b>&lt;1</b>	<1	---
Magnesium	ppm	ASTM D5185(m)	450	<b>815</b>	16	---
Calcium	ppm	ASTM D5185(m)	3000	<b>1271</b>	2470	---
Phosphorus	ppm	ASTM D5185(m)	1150	<b>937</b>	689	---
Zinc	ppm	ASTM D5185(m)	1350	<b>1144</b>	828	---
Sulfur	ppm	ASTM D5185(m)	4250	<b>2286</b>	2120	---
Oxidation	Abs/.1mm	ASTM D7414*	>25	<b>16.1</b>	14.7	---
Visc @ 40°C	cSt	ASTM D7279(m)	91	<b>91.8</b>	▲ 64	---
Visc @ 100°C	cSt	ASTM D7279(m)	14.4	<b>13.6</b>	▲ 10.4	---
Viscosity Index (VI)	Scale	ASTM D2270*	164	<b>149</b>	150	---



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : PC0088922  
**Lab Number** : 02642490  
**Unique Number** : 5800029  
**Test Package** : MOB 1 ( Additional Tests: Glycol, KV40, VI, Visual )

**LES ENTREPRISES MICHAUDVILLE INC.**  
 270 RUE BRUNET  
 MONT ST-HILAIRE, QC  
 CA J3H 0M6  
 Contact: Martin Trudel  
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Received : 18 Jun 2024  
 Tested : 18 Jun 2024  
 Diagnosed : 18 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.