



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

Machine Id  
**1252**  
 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		<b>PC0084326</b>	PC0076048	PC0082230
Sample Date		Client Info		<b>17 Jun 2024</b>	17 Dec 2023	17 Oct 2023
Machine Age	hrs	Client Info		<b>7147</b>	6568	6102
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>12</b>	5	6
Chromium	ppm	ASTM D5185(m)	>20	<b>&lt;1</b>	<1	<1
Nickel	ppm	ASTM D5185(m)	>4	<b>0</b>	<1	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>6</b>	3	3
Lead	ppm	ASTM D5185(m)	>40	<b>0</b>	<1	<1
Copper	ppm	ASTM D5185(m)	>330	<b>6</b>	6	9
Tin	ppm	ASTM D5185(m)	>15	<b>0</b>	<1	<1
Vanadium	ppm	ASTM D5185(m)		<b>0</b>	0	0

**CONTAMINATION**

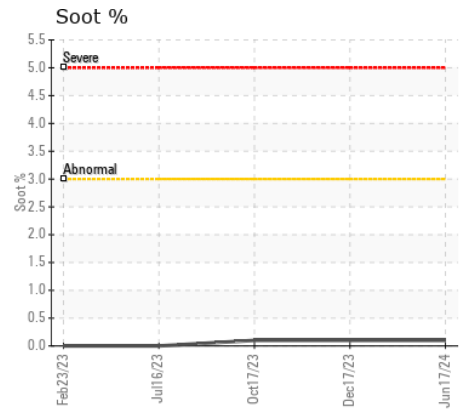
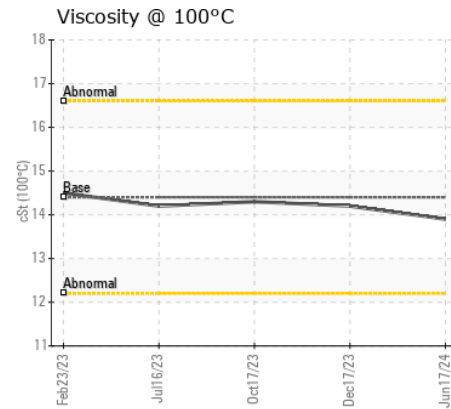
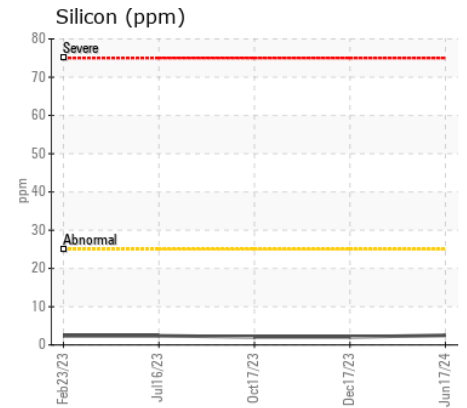
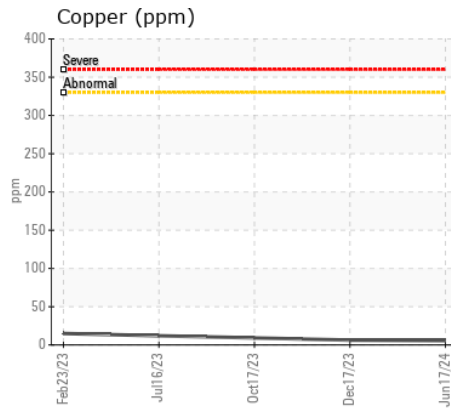
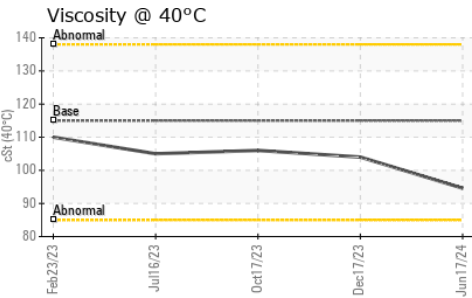
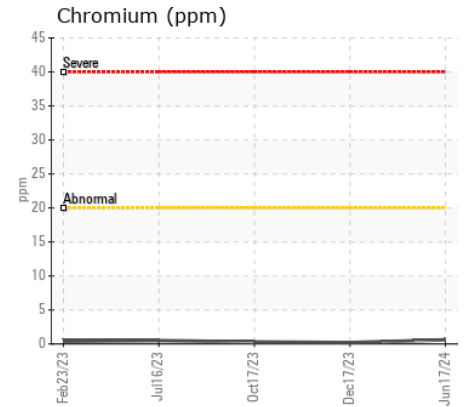
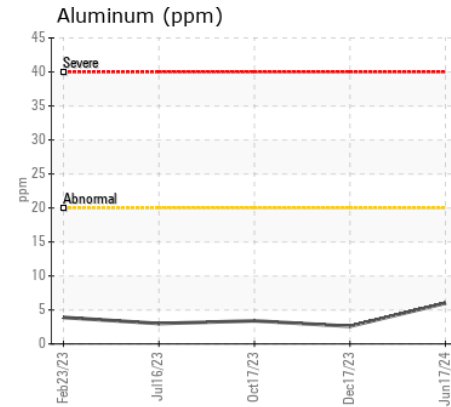
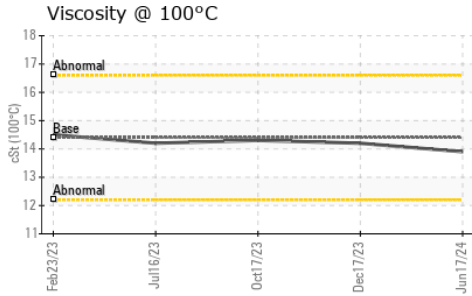
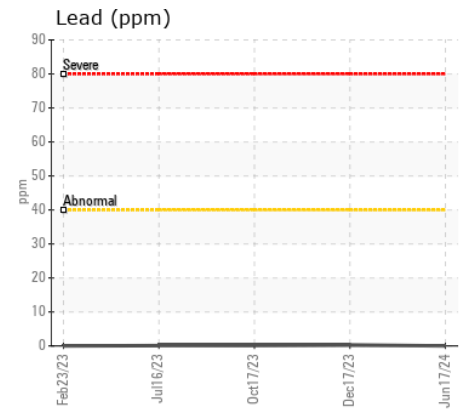
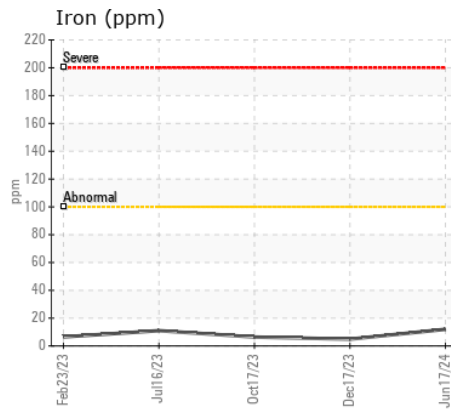
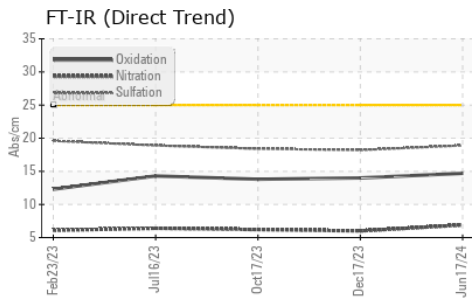
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>25	<b>2</b>	2	2
Potassium	ppm	ASTM D5185(m)	>20	<b>6</b>	2	3
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>0.1</b>	0.1	0.1
Nitration	Abs/cm	ASTM D7624*	>20	<b>6.9</b>	6.0	6.2
Sulfation	Abs/.1mm	ASTM D7415*	>30	<b>18.9</b>	18.2	18.4
Odor	scalar	Visual*	NORML	<b>NORML</b>	NORML	NORML
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)	>158	<b>1</b>	1	1
Boron	ppm	ASTM D5185(m)	250	<b>1</b>	1	<1
Barium	ppm	ASTM D5185(m)	10	<b>0</b>	<1	<1
Molybdenum	ppm	ASTM D5185(m)	100	<b>58</b>	59	60
Manganese	ppm	ASTM D5185(m)		<b>&lt;1</b>	0	0
Magnesium	ppm	ASTM D5185(m)	450	<b>952</b>	972	972
Calcium	ppm	ASTM D5185(m)	3000	<b>1107</b>	1047	1024
Phosphorus	ppm	ASTM D5185(m)	1150	<b>1020</b>	996	999
Zinc	ppm	ASTM D5185(m)	1350	<b>1216</b>	1190	1197
Sulfur	ppm	ASTM D5185(m)	4250	<b>2634</b>	2544	2512
Oxidation	Abs/.1mm	ASTM D7414*	>25	<b>14.7</b>	14.0	13.8
Visc @ 40°C	cSt	ASTM D7279(m)	115	<b>94.6</b>	104	106
Visc @ 100°C	cSt	ASTM D7279(m)	14.4	<b>13.9</b>	14.2	14.3
Viscosity Index (VI)	Scale	ASTM D2270*	126	<b>149</b>	139	137



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : PC0084326 **Received** : 18 Jun 2024  
**Lab Number** : **02642492** **Tested** : 18 Jun 2024  
**Unique Number** : 5800031 **Diagnosed** : 18 Jun 2024 - Wes Davis  
**Test Package** : MOB 1 ( Additional Tests: KV40, VI, Visual )

**LES ENTREPRISES MICHAUVILLE INC.**  
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 MONT ST-HILAIRE, QC  
 CA J3H 0M6  
 Contact: Martin Trudel  
 mtrudel@michaudville.com

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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