



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

Machine Id  
**1226**  
 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>PC0082913</b>	PC0088510	PC0082609
Sample Date		Client Info		<b>11 Jun 2024</b>	20 Mar 2024	14 Nov 2023
Machine Age	hrs	Client Info		<b>5522</b>	5016	4550
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>11</b>	10	13
Chromium	ppm	ASTM D5185(m)	>20	<b>0</b>	0	0
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>	0	<1
Aluminum	ppm	ASTM D5185(m)	>20	<b>6</b>	9	11
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	<1
Vanadium	ppm	ASTM D5185(m)		<b>0</b>	0	0

**CONTAMINATION**

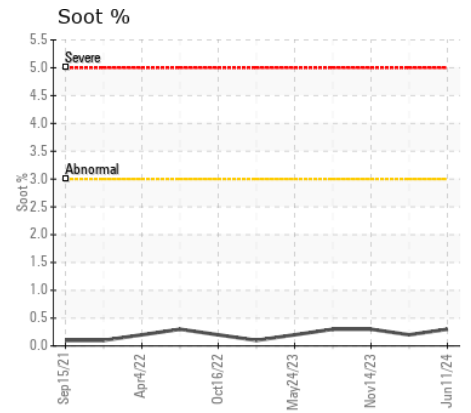
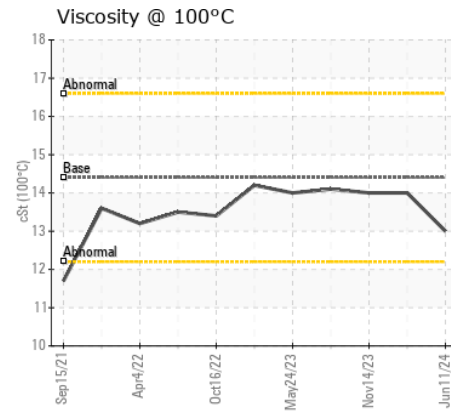
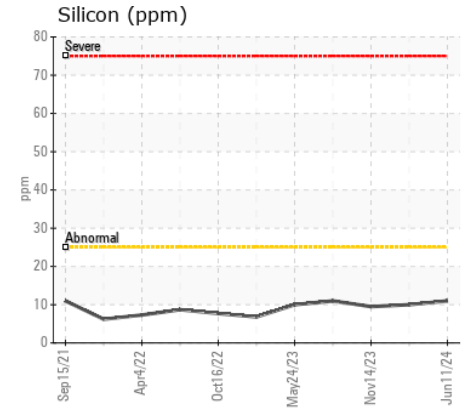
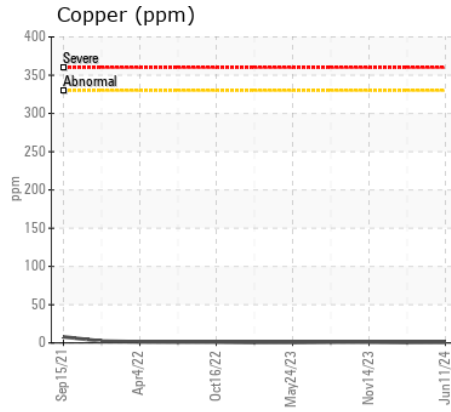
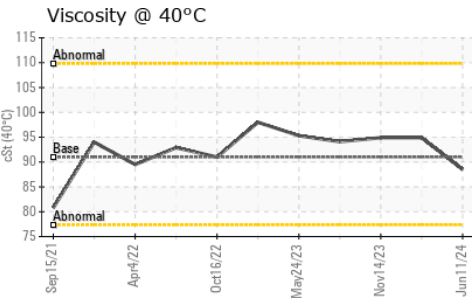
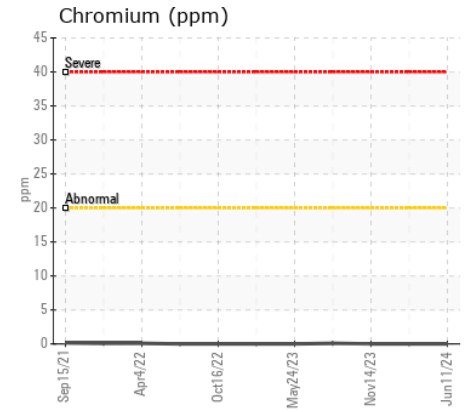
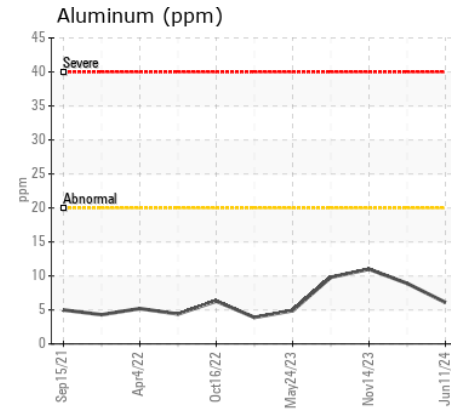
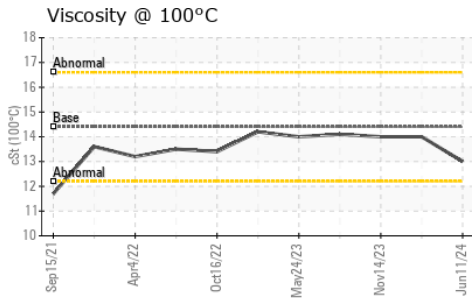
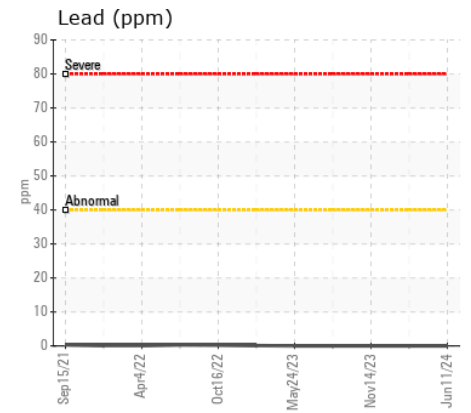
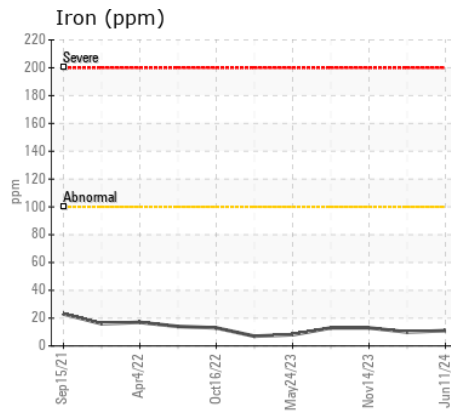
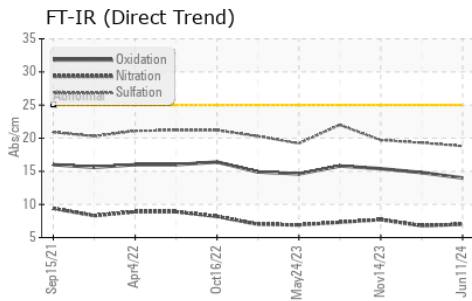
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>25	<b>11</b>	10	10
Potassium	ppm	ASTM D5185(m)	>20	<b>9</b>	13	17
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>0.3</b>	0.2	0.3
Nitration	Abs/cm	ASTM D7624*	>20	<b>7.0</b>	6.8	7.7
Sulfation	Abs/.1mm	ASTM D7415*	>30	<b>18.8</b>	19.3	19.7
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>1</b>	1	<1
Boron	ppm	ASTM D5185(m)	250	<b>&lt;1</b>	0	1
Barium	ppm	ASTM D5185(m)	10	<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185(m)	100	<b>51</b>	57	60
Manganese	ppm	ASTM D5185(m)		<b>0</b>	0	0
Magnesium	ppm	ASTM D5185(m)	450	<b>942</b>	938	982
Calcium	ppm	ASTM D5185(m)	3000	<b>1075</b>	1150	1088
Phosphorus	ppm	ASTM D5185(m)	1150	<b>997</b>	992	1010
Zinc	ppm	ASTM D5185(m)	1350	<b>1197</b>	1191	1200
Sulfur	ppm	ASTM D5185(m)	4250	<b>2496</b>	2542	2488
Oxidation	Abs/.1mm	ASTM D7414*	>25	<b>14.0</b>	14.8	15.4
Visc @ 40°C	cSt	ASTM D7279(m)	91	<b>88.5</b>	94.9	94.9
Visc @ 100°C	cSt	ASTM D7279(m)	14.4	<b>13.0</b>	14.0	14.0
Viscosity Index (VI)	Scale	ASTM D2270*	164	<b>146</b>	150	150



ISO 17025:2017  
Accredited  
Laboratory

**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : PC0082913  
**Lab Number** : 02641371  
**Unique Number** : 5798910  
**Test Package** : MOB 1 ( Additional Tests: KV40, VI )

**LES ENTREPRISES MICHAUVILLE INC.**  
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 MONT ST-HILAIRE, QC  
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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.*

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