



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

Machine Id  
**1515**  
 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>PC0085086</b>	PC0083544	PC0082528
Sample Date		Client Info		<b>26 Jun 2024</b>	12 Mar 2024	21 Nov 2023
Machine Age	hrs	Client Info		<b>5992</b>	5484	4993
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>	7	6
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>2</b>	4	4
Lead	ppm	ASTM D5185(m)	>40	<b>0</b>	0	<1
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**

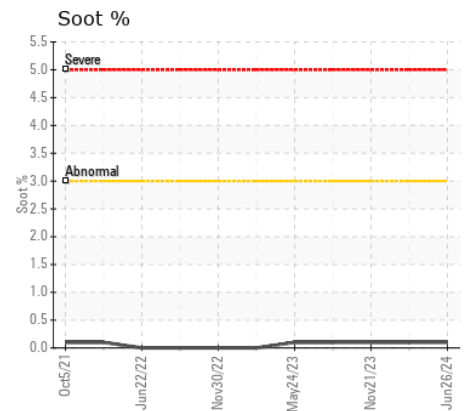
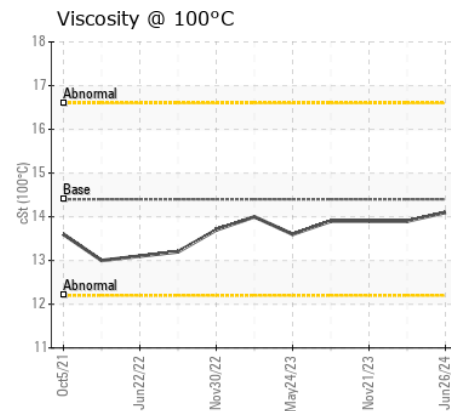
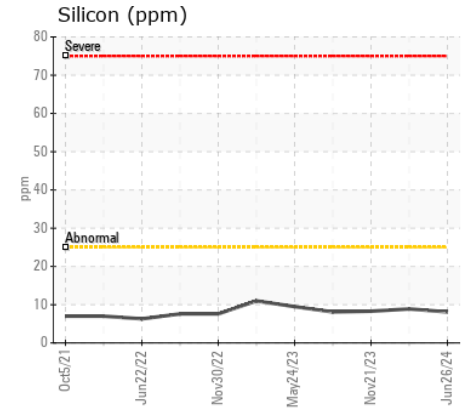
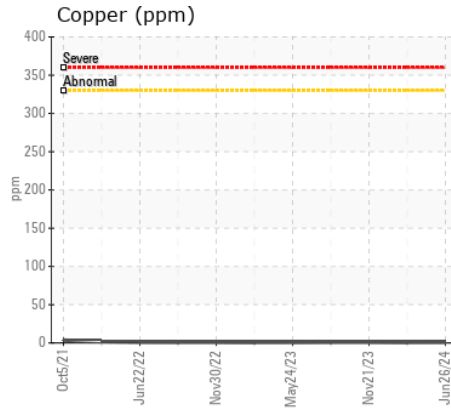
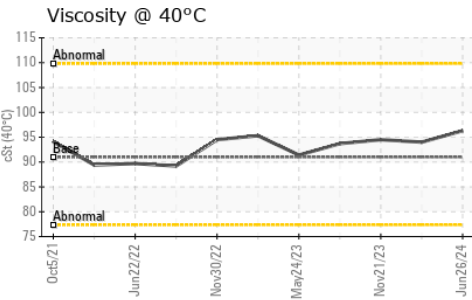
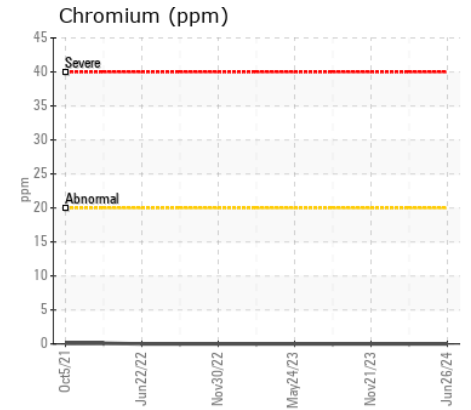
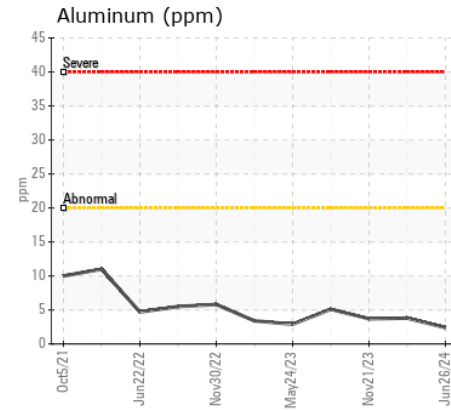
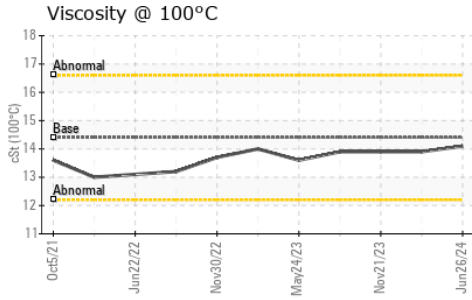
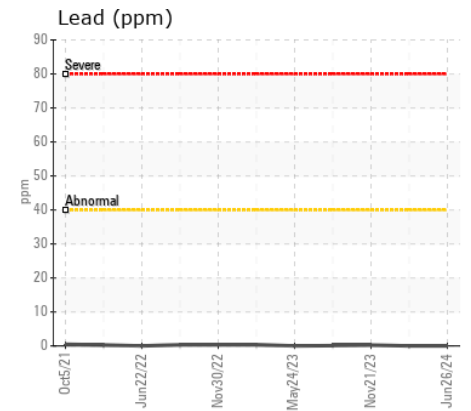
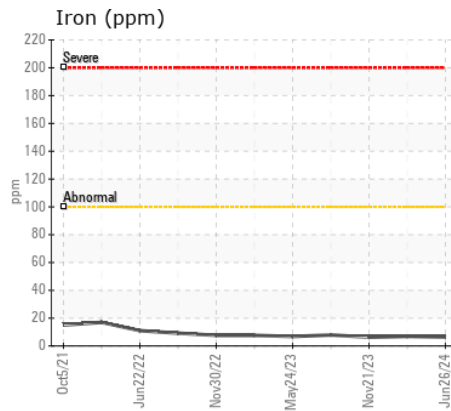
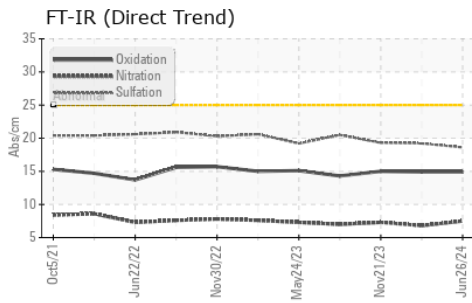
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>25	<b>8</b>	9	8
Potassium	ppm	ASTM D5185(m)	>20	<b>3</b>	6	7
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>7.5</b>	6.8	7.3
Sulfation	Abs/.1mm	ASTM D7415*	>30	<b>18.6</b>	19.2	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	1
Boron	ppm	ASTM D5185(m)	250	<b>&lt;1</b>	1	1
Barium	ppm	ASTM D5185(m)	10	<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185(m)	100	<b>58</b>	57	57
Manganese	ppm	ASTM D5185(m)		<b>0</b>	0	0
Magnesium	ppm	ASTM D5185(m)	450	<b>952</b>	929	950
Calcium	ppm	ASTM D5185(m)	3000	<b>1050</b>	1121	1075
Phosphorus	ppm	ASTM D5185(m)	1150	<b>1000</b>	1005	974
Zinc	ppm	ASTM D5185(m)	1350	<b>1180</b>	1184	1182
Sulfur	ppm	ASTM D5185(m)	4250	<b>2546</b>	2752	2491
Oxidation	Abs/.1mm	ASTM D7414*	>25	<b>14.9</b>	14.9	15.0
Visc @ 40°C	cSt	ASTM D7279(m)	91	<b>96.3</b>	94.0	94.5
Visc @ 100°C	cSt	ASTM D7279(m)	14.4	<b>14.1</b>	13.9	13.9
Viscosity Index (VI)	Scale	ASTM D2270*	164	<b>149</b>	150	149



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : PC0085086  
**Lab Number** : 02644320  
**Unique Number** : 5801859  
**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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F: