



# OIL ANALYSIS REPORT

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

Machine Id  
**1518**  
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>PC0084344</b>	PC0082229	PC0072014
Sample Date		Client Info		<b>28 Feb 2024</b>	17 Oct 2023	16 Jul 2023
Machine Age	hrs	Client Info		<b>1220</b>	775	364
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>14</b>	20	22
Chromium	ppm	ASTM D5185(m)	>20	<b>0</b>	0	<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>4</b>	5	7
Lead	ppm	ASTM D5185(m)	>40	<b>&lt;1</b>	<1	0
Copper	ppm	ASTM D5185(m)	>330	<b>1</b>	2	3
Tin	ppm	ASTM D5185(m)	>15	<b>0</b>	<1	<1
Vanadium	ppm	ASTM D5185(m)		<b>0</b>	0	0

## CONTAMINATION

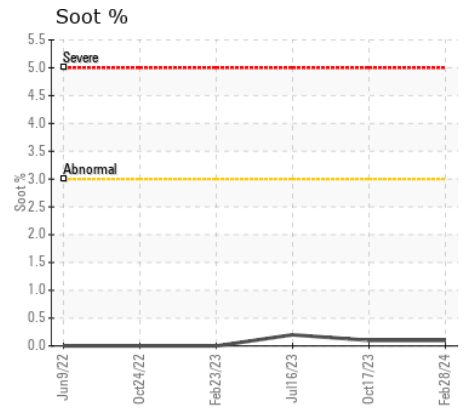
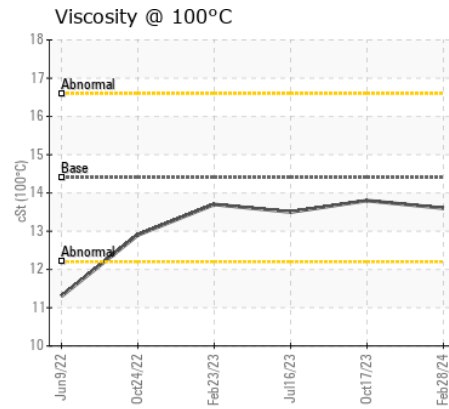
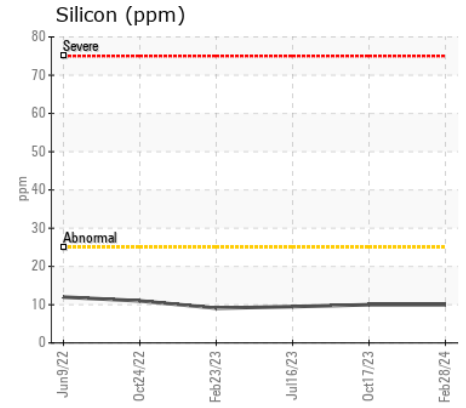
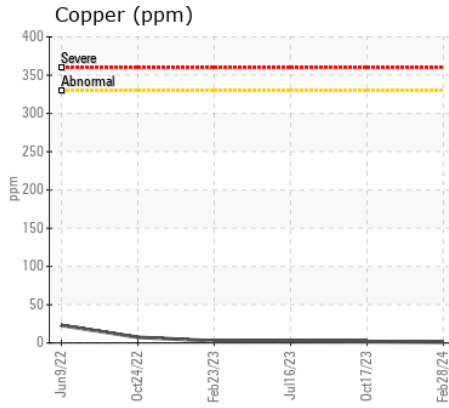
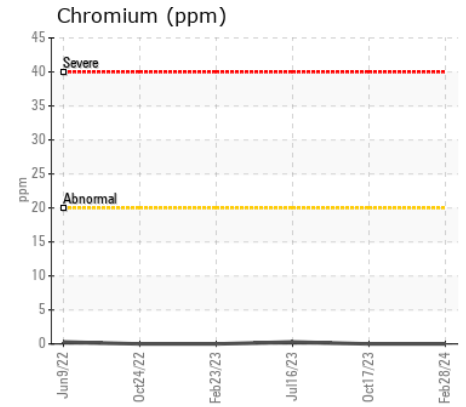
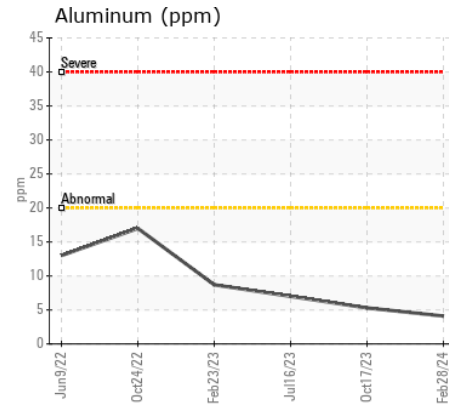
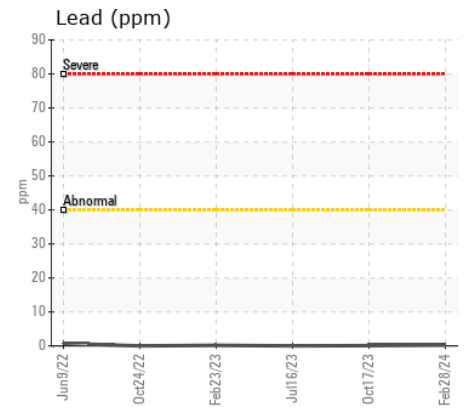
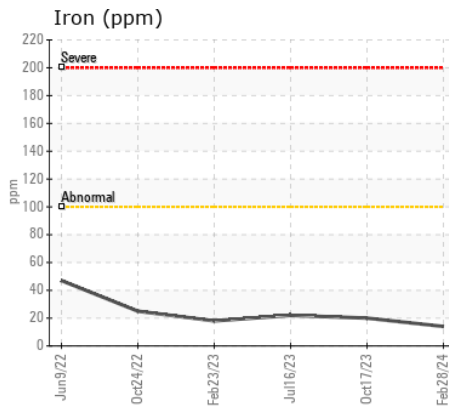
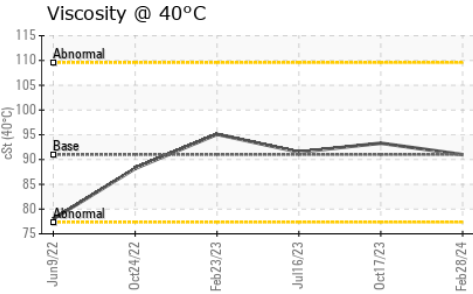
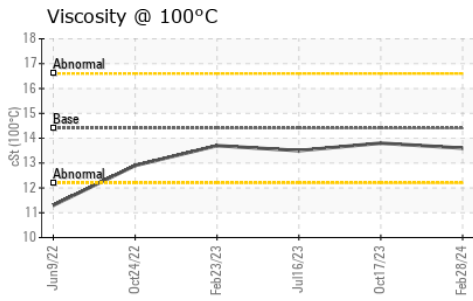
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>25	<b>10</b>	10	10
Potassium	ppm	ASTM D5185(m)	>20	<b>7</b>	12	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>0.1</b>	0.1	0.2
Nitration	Abs/cm	ASTM D7624*	>20	<b>8.2</b>	8.5	10.1
Sulfation	Abs/.1mm	ASTM D7415*	>30	<b>19.9</b>	19.9	20.9
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>	2	2
Boron	ppm	ASTM D5185(m)	250	<b>&lt;1</b>	2	2
Barium	ppm	ASTM D5185(m)	10	<b>0</b>	<1	0
Molybdenum	ppm	ASTM D5185(m)	100	<b>57</b>	58	59
Manganese	ppm	ASTM D5185(m)		<b>0</b>	0	<1
Magnesium	ppm	ASTM D5185(m)	450	<b>920</b>	956	985
Calcium	ppm	ASTM D5185(m)	3000	<b>1180</b>	1129	1137
Phosphorus	ppm	ASTM D5185(m)	1150	<b>1021</b>	1006	1086
Zinc	ppm	ASTM D5185(m)	1350	<b>1184</b>	1216	1228
Sulfur	ppm	ASTM D5185(m)	4250	<b>2759</b>	2540	2522
Oxidation	Abs/.1mm	ASTM D7414*	>25	<b>16.2</b>	16.1	17.3
Visc @ 40°C	cSt	ASTM D7279(m)	91	<b>91.0</b>	93.3	91.5
Visc @ 100°C	cSt	ASTM D7279(m)	14.4	<b>13.6</b>	13.8	13.5
Viscosity Index (VI)	Scale	ASTM D2270*	164	<b>151</b>	150	148



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : PC0084344  
**Lab Number** : 02618894  
**Unique Number** : 5736004  
**Test Package** : MOB 1 ( Additional Tests: KV40, VI )  
**Received** : 29 Feb 2024  
**Tested** : 29 Feb 2024  
**Diagnosed** : 29 Feb 2024 - Wes Davis

**LES ENTREPRISES MICHAUVILLE INC.**  
 270 RUE BRUNET  
 MONT ST-HILAIRE, QC  
 CA J3H 0M6  
 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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