



# OIL ANALYSIS REPORT

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

Machine Id  
**55104**  
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>PC0084415</b>	PC0077716	PC0067582
Sample Date		Client Info		<b>28 Feb 2024</b>	08 Aug 2023	19 Jan 2023
Machine Age	hrs	Client Info		<b>4122</b>	3647	3207
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>13</b>	13	10
Chromium	ppm	ASTM D5185(m)	>20	<b>&lt;1</b>	<1	<1
Nickel	ppm	ASTM D5185(m)	>4	<b>&lt;1</b>	0	<1
Titanium	ppm	ASTM D5185(m)		<b>0</b>	0	<1
Silver	ppm	ASTM D5185(m)	>3	<b>0</b>	0	0
Aluminum	ppm	ASTM D5185(m)	>20	<b>3</b>	2	2
Lead	ppm	ASTM D5185(m)	>40	<b>5</b>	4	3
Copper	ppm	ASTM D5185(m)	>330	<b>2</b>	2	2
Tin	ppm	ASTM D5185(m)	>15	<b>1</b>	1	1
Vanadium	ppm	ASTM D5185(m)		<b>0</b>	0	0

## CONTAMINATION

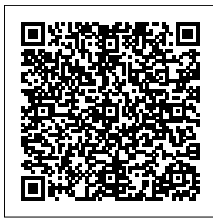
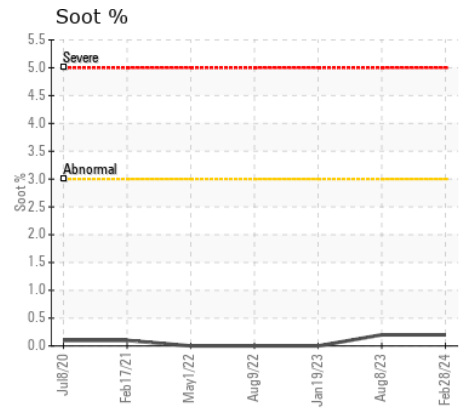
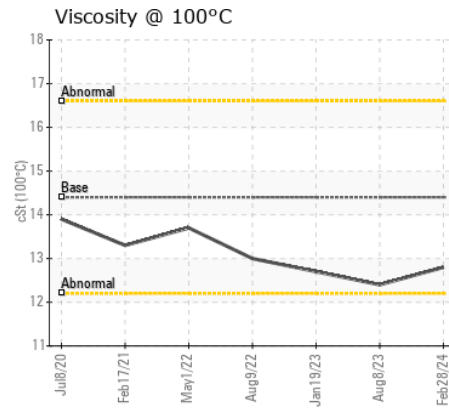
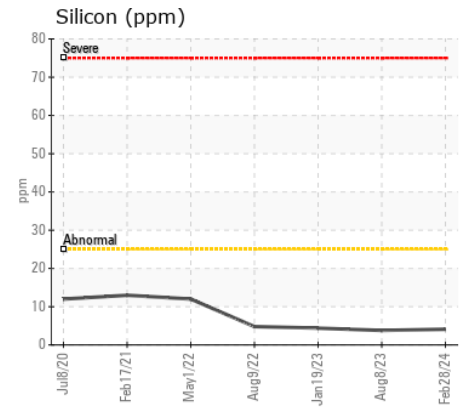
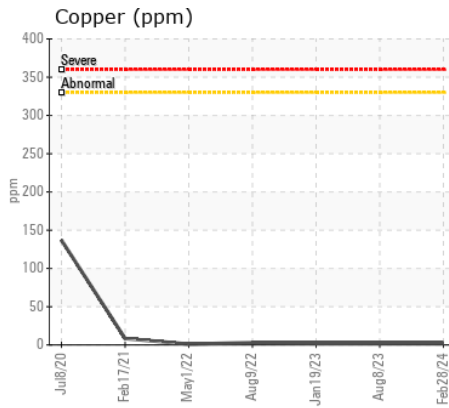
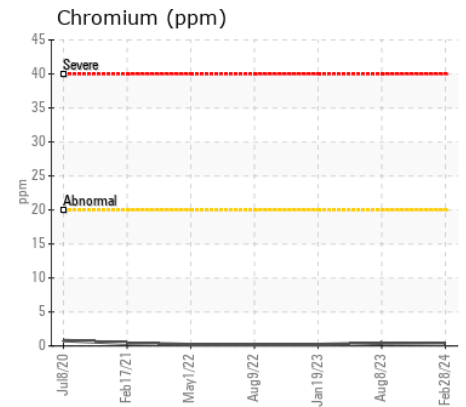
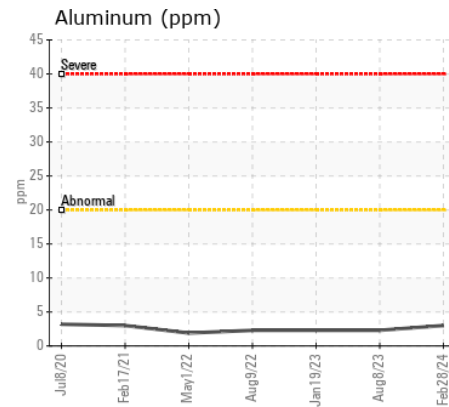
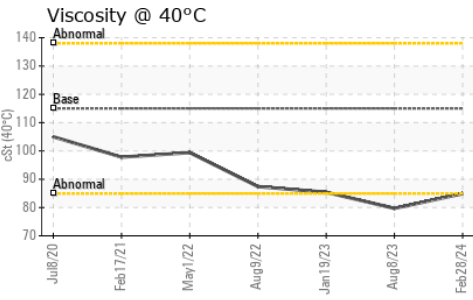
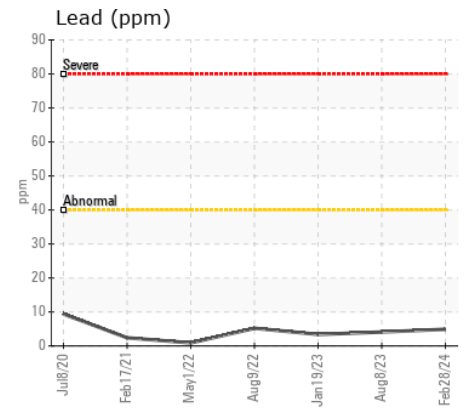
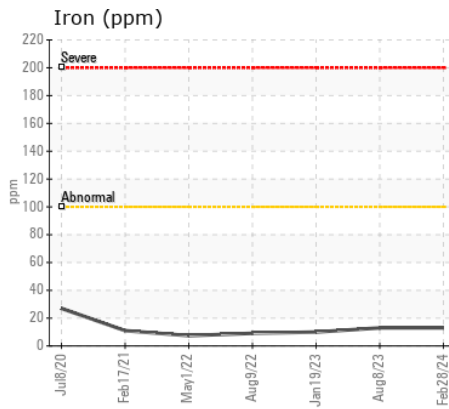
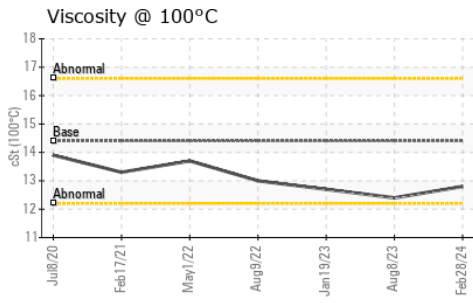
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>25	<b>4</b>	4	4
Potassium	ppm	ASTM D5185(m)	>20	<b>&lt;1</b>	<1	0
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>0.2</b>	0.2	0
Nitration	Abs/cm	ASTM D7624*	>20	<b>10.1</b>	9.4	9.6
Sulfation	Abs/.1mm	ASTM D7415*	>30	<b>20.3</b>	20.6	20.8
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>	2	2
Boron	ppm	ASTM D5185(m)	250	<b>2</b>	7	3
Barium	ppm	ASTM D5185(m)	10	<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185(m)	100	<b>59</b>	58	56
Manganese	ppm	ASTM D5185(m)		<b>0</b>	<1	<1
Magnesium	ppm	ASTM D5185(m)	450	<b>943</b>	928	905
Calcium	ppm	ASTM D5185(m)	3000	<b>1079</b>	1073	1200
Phosphorus	ppm	ASTM D5185(m)	1150	<b>1003</b>	1027	1064
Zinc	ppm	ASTM D5185(m)	1350	<b>1175</b>	1151	1181
Sulfur	ppm	ASTM D5185(m)	4250	<b>2555</b>	2432	2554
Oxidation	Abs/.1mm	ASTM D7414*	>25	<b>18.4</b>	17.4	17.7
Visc @ 40°C	cSt	ASTM D7279(m)	115	<b>84.9</b>	79.7	85.4
Visc @ 100°C	cSt	ASTM D7279(m)	14.4	<b>12.8</b>	12.4	12.7
Viscosity Index (VI)	Scale	ASTM D2270*	126	<b>149</b>	153	146



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : PC0084415 **Received** : 29 Feb 2024  
**Lab Number** : 02618896 **Tested** : 29 Feb 2024  
**Unique Number** : 5736006 **Diagnosed** : 29 Feb 2024 - Wes Davis  
**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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