

Area  
**MICHAUDVILLE**

Machine Id

**1154**

Component

**Diesel Engine**

Fluid

**DIESEL ENGINE OIL 10W40 (--- 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>PC0082953</b>	PC0084410	PC0082447
Sample Date		Client Info		<b>04 Jun 2024</b>	28 Feb 2024	31 Oct 2023
Machine Age	hrs	Client Info		<b>9749</b>	9193	8735
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>18</b>	14	18
Chromium	ppm	ASTM D5185(m)	>20	<b>1</b>	<1	<1
Nickel	ppm	ASTM D5185(m)	>4	<b>&lt;1</b>	<1	<1
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>	3	3
Lead	ppm	ASTM D5185(m)	>40	<b>&lt;1</b>	<1	1
Copper	ppm	ASTM D5185(m)	>330	<b>2</b>	2	2
Tin	ppm	ASTM D5185(m)	>15	<b>0</b>	0	0
Vanadium	ppm	ASTM D5185(m)		<b>0</b>	0	0
White Metal	scalar	Visual*	NONE	<b>VLITE</b>	---	---
Yellow Metal	scalar	Visual*	NONE	<b>NONE</b>	---	---

**CONTAMINATION**

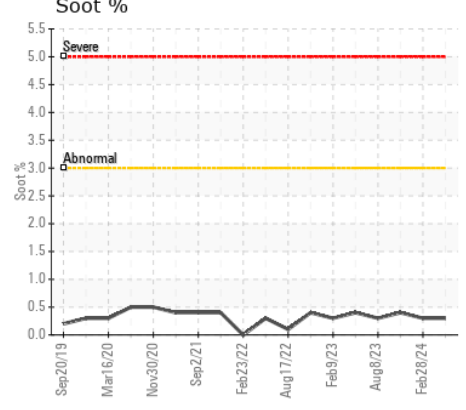
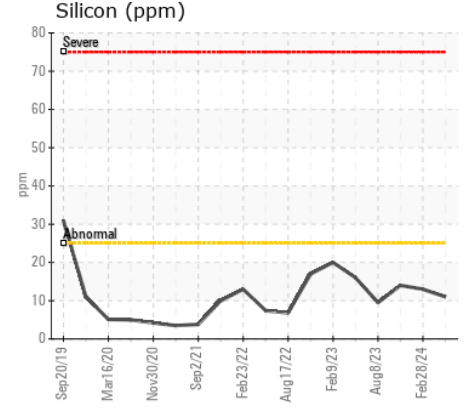
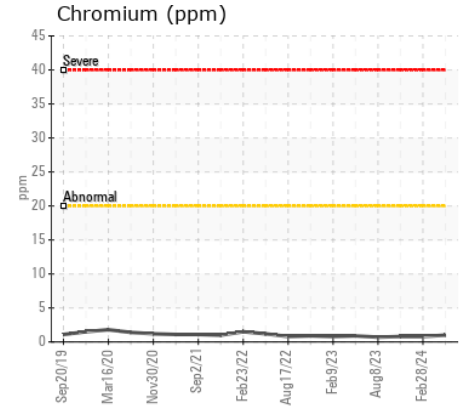
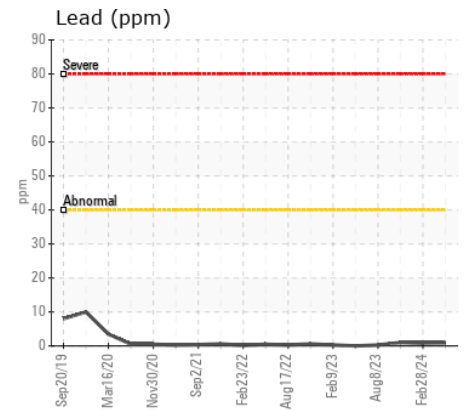
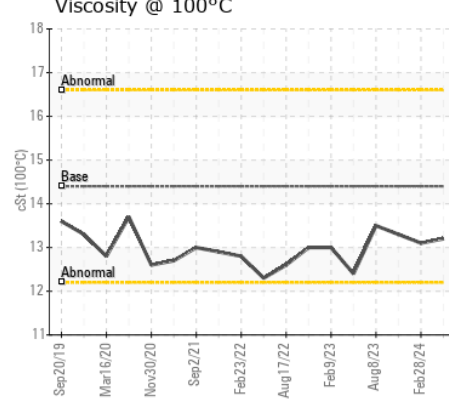
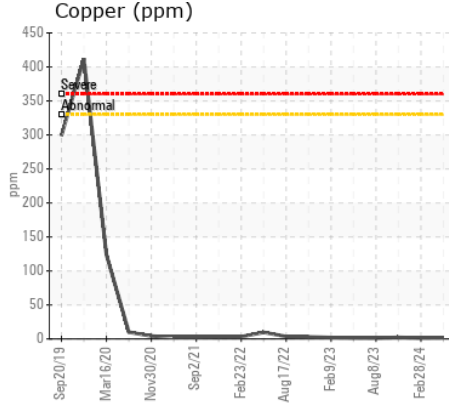
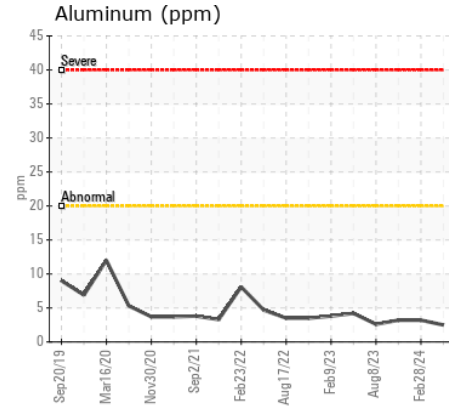
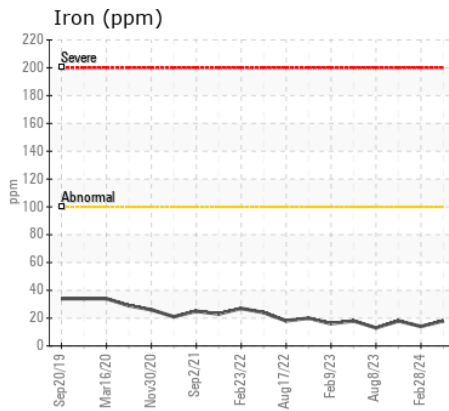
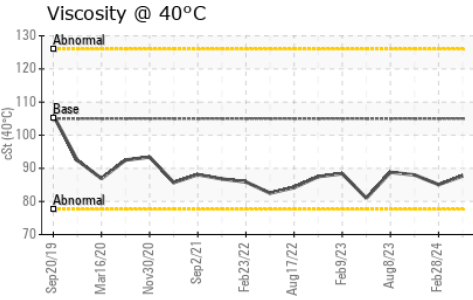
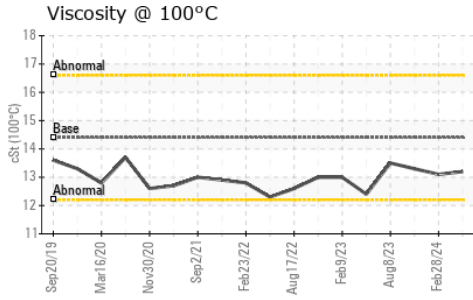
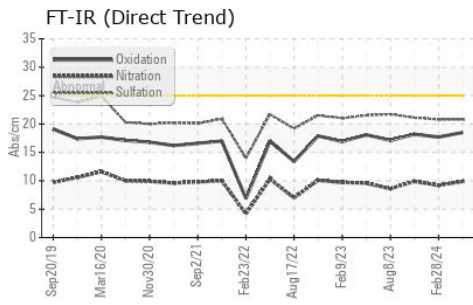
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>25	<b>11</b>	13	14
Potassium	ppm	ASTM D5185(m)	>20	<b>1</b>	2	<1
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>	0.3	0.4
Nitration	Abs/cm	ASTM D7624*	>20	<b>9.9</b>	9.2	9.9
Sulfation	Abs/.1mm	ASTM D7415*	>30	<b>20.8</b>	20.8	21.1
Silt	scalar	Visual*	NONE	<b>VLITE</b>	---	---
Debris	scalar	Visual*	NONE	<b>NONE</b>	---	---
Sand/Dirt	scalar	Visual*	NONE	<b>NONE</b>	---	---
Appearance	scalar	Visual*	NORML	<b>NORML</b>	---	---
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)		<b>2</b>	2	3
Boron	ppm	ASTM D5185(m)	250	<b>&lt;1</b>	<1	1
Barium	ppm	ASTM D5185(m)	10	<b>0</b>	0	<1
Molybdenum	ppm	ASTM D5185(m)	100	<b>60</b>	56	59
Manganese	ppm	ASTM D5185(m)		<b>&lt;1</b>	0	0
Magnesium	ppm	ASTM D5185(m)	450	<b>949</b>	912	941
Calcium	ppm	ASTM D5185(m)	3000	<b>1082</b>	1161	1106
Phosphorus	ppm	ASTM D5185(m)	1150	<b>1035</b>	1010	990
Zinc	ppm	ASTM D5185(m)	1350	<b>1201</b>	1180	1197
Sulfur	ppm	ASTM D5185(m)	4250	<b>2467</b>	2681	2427
Oxidation	Abs/.1mm	ASTM D7414*	>25	<b>18.5</b>	17.7	18.2
Visc @ 40°C	cSt	ASTM D7279(m)	105	<b>87.7</b>	85.1	88.0
Visc @ 100°C	cSt	ASTM D7279(m)	14.4	<b>13.2</b>	13.1	13.3
Viscosity Index (VI)	Scale	ASTM D2270*	126	<b>150</b>	154	152



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : PC0082953  
**Lab Number** : 02639791  
**Unique Number** : 5788953  
**Test Package** : MOB 1 ( Additional Tests: KV40, VI, Visual )

**LES ENTREPRISES MICHAUVILLE INC.**  
 270 RUE BRUNET  
 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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