

Area  
**MICHAUDVILLE**  
Machine Id  
**1202**  
Component  
**Diesel Engine**  
Fluid  
**DIESEL ENGINE OIL SAE 10W30 (--- 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>PC0083715</b>	PC0082530	PC0075804
Sample Date		Client Info		<b>16 Jan 2024</b>	21 Nov 2023	07 Jun 2023
Machine Age	hrs	Client Info		<b>12644</b>	12197	11736
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>	8	7
Chromium	ppm	ASTM D5185(m)	>20	<b>0</b>	0	0
Nickel	ppm	ASTM D5185(m)	>4	<b>0</b>	0	0
Titanium	ppm	ASTM D5185(m)		<b>0</b>	0	<1
Silver	ppm	ASTM D5185(m)	>3	<b>0</b>	<1	0
Aluminum	ppm	ASTM D5185(m)	>20	<b>2</b>	3	2
Lead	ppm	ASTM D5185(m)	>40	<b>0</b>	<1	<1
Copper	ppm	ASTM D5185(m)	>330	<b>2</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**

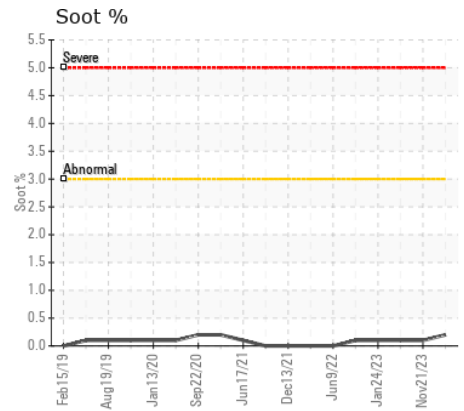
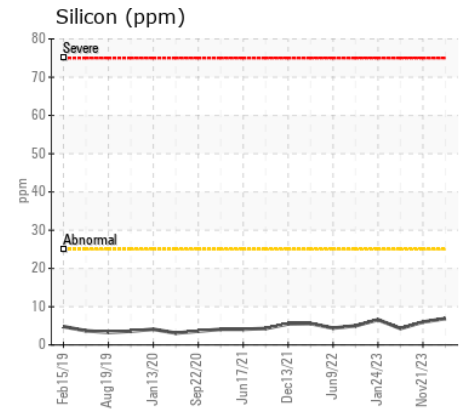
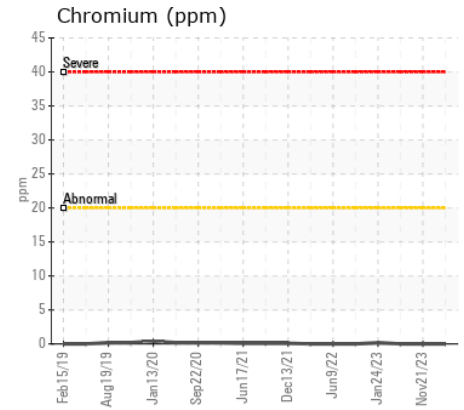
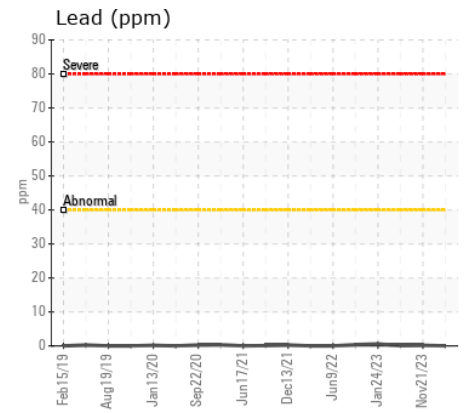
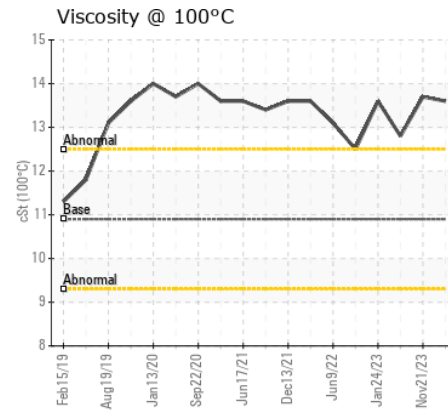
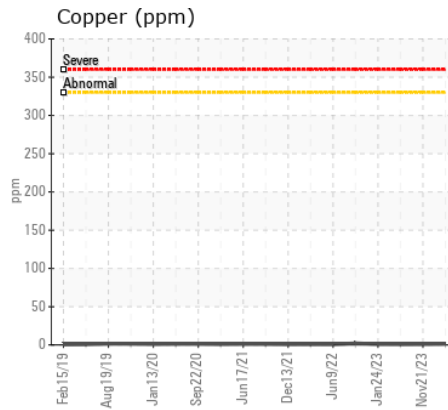
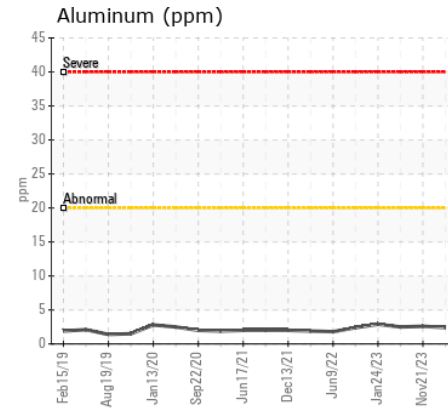
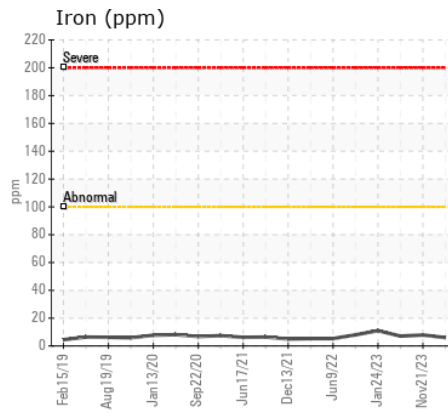
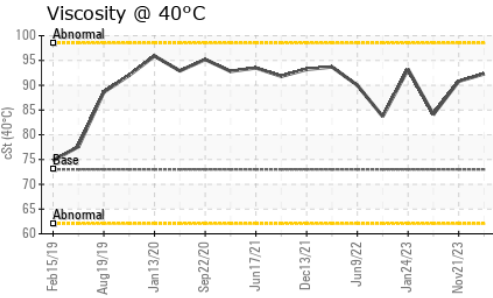
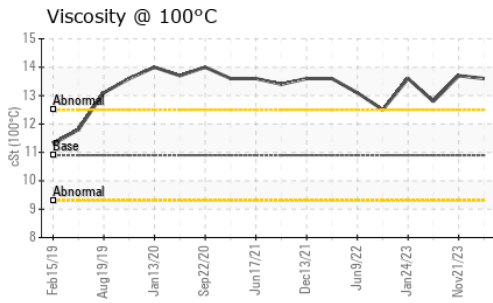
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>25	<b>7</b>	6	4
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>0.2</b>	0.1	0.1
Nitration	Abs/cm	ASTM D7624*	>20	<b>7.0</b>	7.3	7.2
Sulfation	Abs/.1mm	ASTM D7415*	>30	<b>19.0</b>	20.0	20.3
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)		<b>&lt;1</b>	2	1
Boron	ppm	ASTM D5185(m)	250	<b>&lt;1</b>	2	6
Barium	ppm	ASTM D5185(m)	10	<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185(m)	100	<b>57</b>	55	56
Manganese	ppm	ASTM D5185(m)		<b>0</b>	0	<1
Magnesium	ppm	ASTM D5185(m)	450	<b>938</b>	902	892
Calcium	ppm	ASTM D5185(m)	3000	<b>1063</b>	1135	1334
Phosphorus	ppm	ASTM D5185(m)	1150	<b>1009</b>	990	1110
Zinc	ppm	ASTM D5185(m)	1350	<b>1147</b>	1177	1203
Sulfur	ppm	ASTM D5185(m)	4250	<b>2728</b>	2590	2855
Oxidation	Abs/.1mm	ASTM D7414*	>25	<b>14.6</b>	15.5	15.8
Visc @ 40°C	cSt	ASTM D7279(m)	73	<b>92.3</b>	90.8	84.1
Visc @ 100°C	cSt	ASTM D7279(m)	10.9	<b>13.6</b>	13.7	12.8
Viscosity Index (VI)	Scale	ASTM D2270*	138	<b>149</b>	153	151



ISO 17025:2017  
Accredited  
Laboratory

**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 LES ENTREPRISES MICHAUVILLE INC.  
**Sample No.** : PC0083715 **Received** : 17 Jan 2024  
**Lab Number** : 02609248 **Diagnosed** : 18 Jan 2024  
**Unique Number** : 5710334 **Diagnostician** : Wes Davis  
**Test Package** : MOB 1 ( Additional Tests: KV40, VI )

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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