



# OIL ANALYSIS REPORT

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

Machine Id  
**1513**  
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>PC0083530</b>	PC0082250	PC0077643
Sample Date		Client Info		<b>07 Jan 2024</b>	26 Sep 2023	25 Jul 2023
Machine Age	hrs	Client Info		<b>6816</b>	6382	5917
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>	11	9
Chromium	ppm	ASTM D5185(m)	>20	<b>0</b>	0	0
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	0
Aluminum	ppm	ASTM D5185(m)	>20	<b>3</b>	3	2
Lead	ppm	ASTM D5185(m)	>40	<b>&lt;1</b>	<1	<1
Copper	ppm	ASTM D5185(m)	>330	<b>&lt;1</b>	2	1
Tin	ppm	ASTM D5185(m)	>15	<b>0</b>	<1	<1
Vanadium	ppm	ASTM D5185(m)		<b>0</b>	0	0

## CONTAMINATION

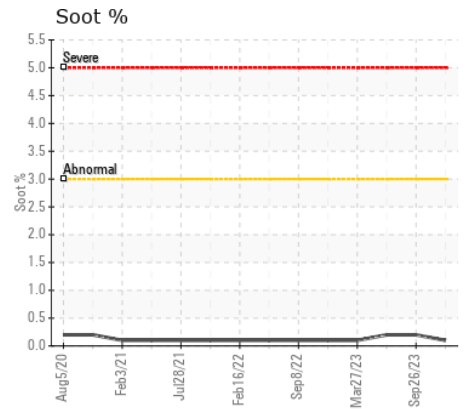
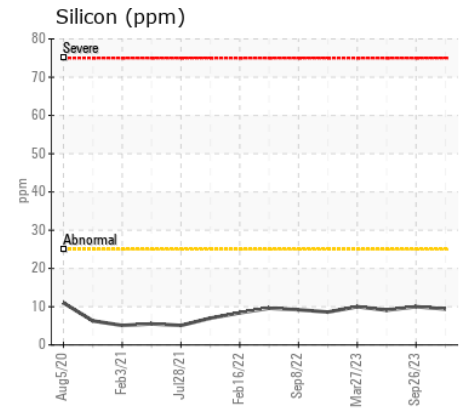
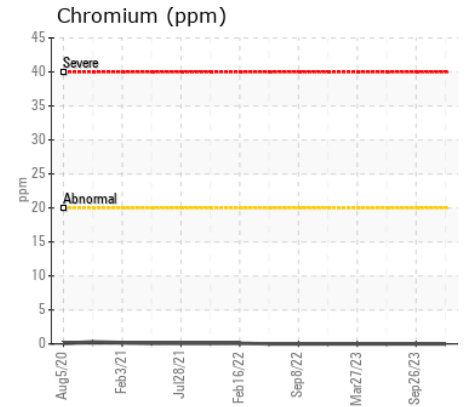
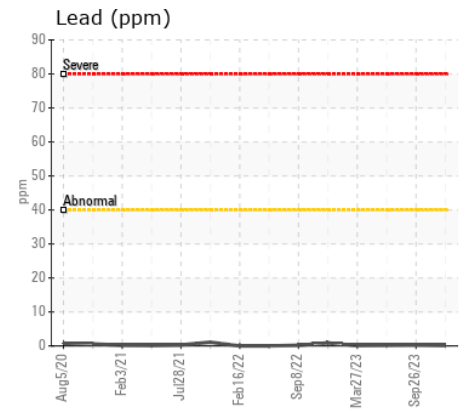
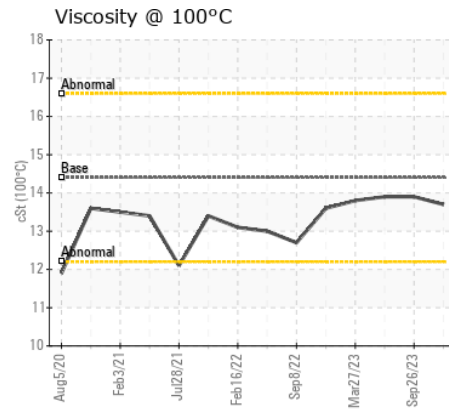
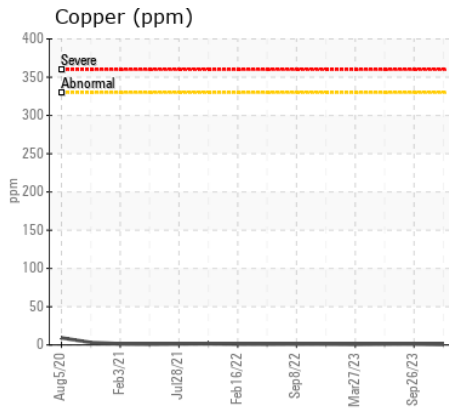
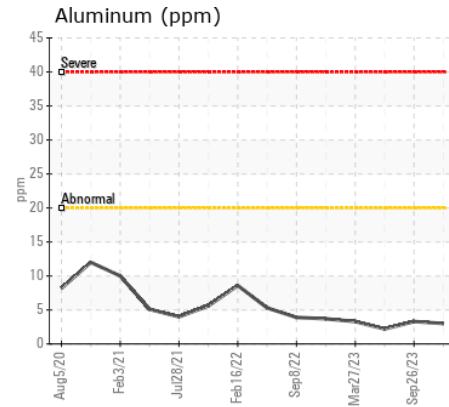
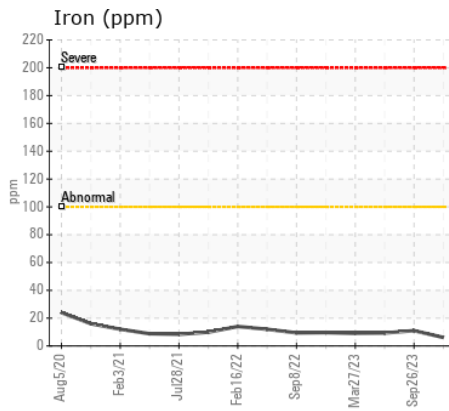
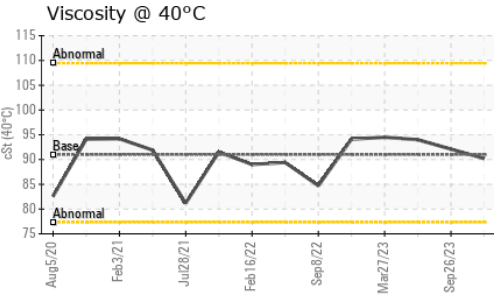
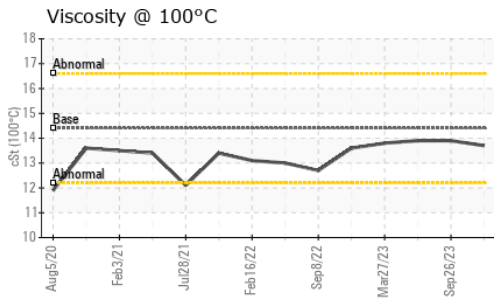
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>25	<b>9</b>	10	9
Potassium	ppm	ASTM D5185(m)	>20	<b>3</b>	18	3
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>	0.0	NEG
Soot %	%	ASTM D7844*	>3	<b>0.1</b>	0.2	0.2
Nitration	Abs/cm	ASTM D7624*	>20	<b>6.0</b>	7.2	7.8
Sulfation	Abs/.1mm	ASTM D7415*	>30	<b>20.8</b>	20.2	19.7
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>	1	1
Boron	ppm	ASTM D5185(m)	250	<b>&lt;1</b>	1	2
Barium	ppm	ASTM D5185(m)	10	<b>0</b>	<1	0
Molybdenum	ppm	ASTM D5185(m)	100	<b>52</b>	57	58
Manganese	ppm	ASTM D5185(m)		<b>0</b>	0	<1
Magnesium	ppm	ASTM D5185(m)	450	<b>850</b>	939	973
Calcium	ppm	ASTM D5185(m)	3000	<b>1230</b>	1168	1090
Phosphorus	ppm	ASTM D5185(m)	1150	<b>979</b>	1006	1032
Zinc	ppm	ASTM D5185(m)	1350	<b>1165</b>	1207	1183
Sulfur	ppm	ASTM D5185(m)	4250	<b>2786</b>	2521	2451
Oxidation	Abs/.1mm	ASTM D7414*	>25	<b>15.9</b>	15.4	15.4
Visc @ 40°C	cSt	ASTM D7279(m)	91	<b>90.2</b>	92.1	94.0
Visc @ 100°C	cSt	ASTM D7279(m)	14.4	<b>13.7</b>	13.9	13.9
Viscosity Index (VI)	Scale	ASTM D2270*	164	<b>154</b>	154	150



ISO 17025:2017  
Accredited  
Laboratory

**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 **LES ENTREPRISES MICHAUVILLE INC.**  
**Sample No.** : PC0083530 **Received** : 08 Jan 2024 270 RUE BRUNET  
**Lab Number** : 02606958 **Diagnosed** : 09 Jan 2024 MONT ST-HILAIRE, QC  
**Unique Number** : 5708044 **Diagnostician** : Wes Davis CA J3H 0M6  
**Test Package** : MOB 1 ( Additional Tests: KV40, VI ) Contact: Martin Trudel

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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