



# OIL ANALYSIS REPORT

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

Area  
**MICHAUDVILLE**

Machine Id  
**7505**

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>PC0083633</b>	PC0057226	PC0048617
Sample Date		Client Info		<b>07 Jan 2024</b>	16 Jan 2023	07 Jul 2021
Machine Age	hrs	Client Info		<b>8928</b>	8598	8310
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>16</b>	28	28
Chromium	ppm	ASTM D5185(m)	>20	<b>&lt;1</b>	2	2
Nickel	ppm	ASTM D5185(m)	>4	<b>&lt;1</b>	<1	<1
Titanium	ppm	ASTM D5185(m)		<b>0</b>	<1	<1
Silver	ppm	ASTM D5185(m)	>3	<b>0</b>	0	0
Aluminum	ppm	ASTM D5185(m)	>20	<b>3</b>	3	3
Lead	ppm	ASTM D5185(m)	>40	<b>&lt;1</b>	<1	<1
Copper	ppm	ASTM D5185(m)	>330	<b>&lt;1</b>	2	2
Tin	ppm	ASTM D5185(m)	>15	<b>0</b>	0	<1
Vanadium	ppm	ASTM D5185(m)		<b>0</b>	0	0
White Metal	scalar	Visual*	NONE	<b>VLITE</b>	NONE	---
Yellow Metal	scalar	Visual*	NONE	<b>NONE</b>	NONE	---

## CONTAMINATION

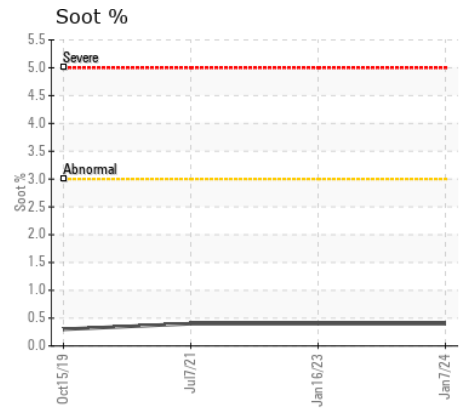
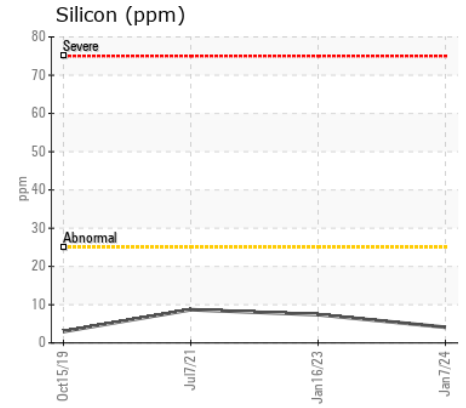
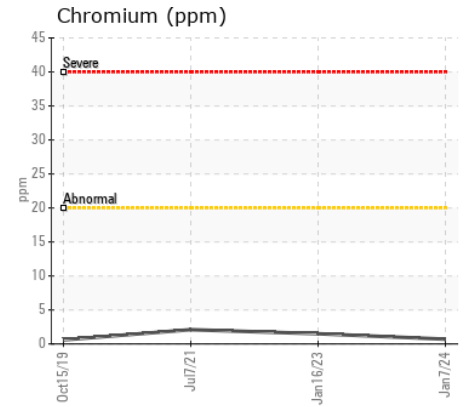
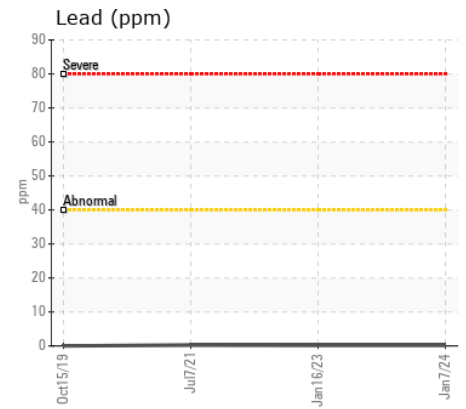
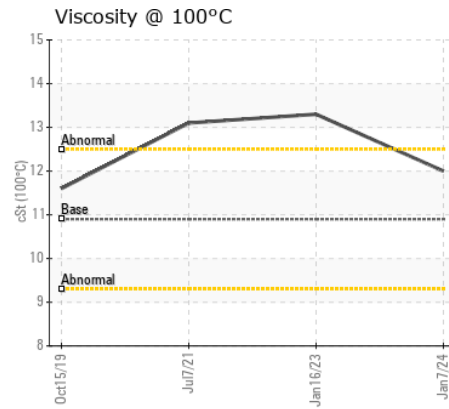
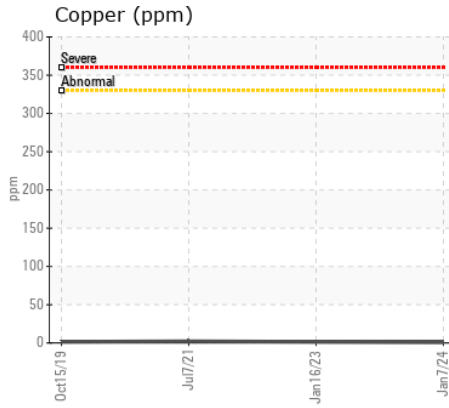
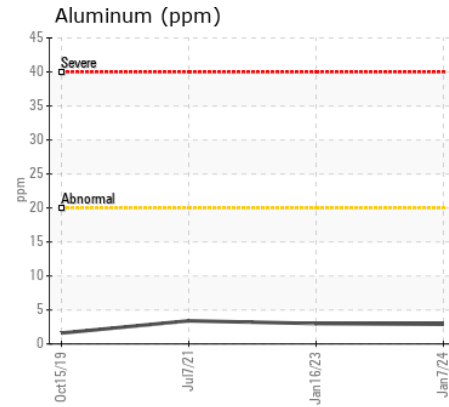
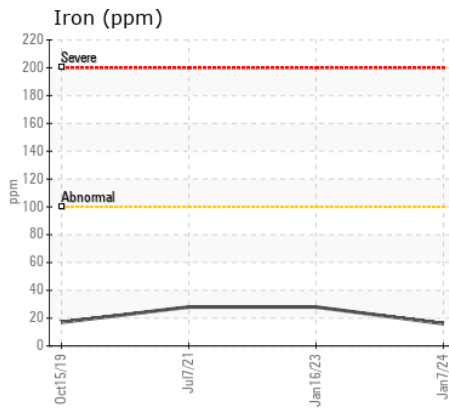
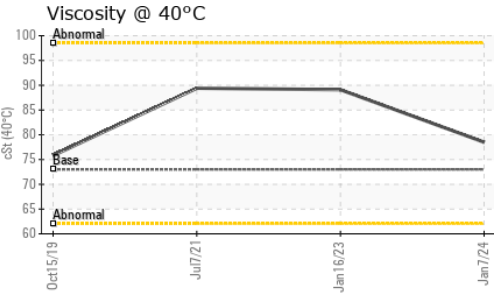
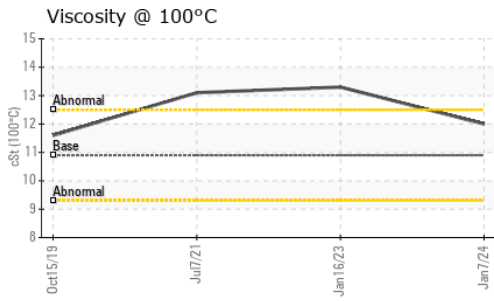
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>25	<b>4</b>	7	9
Potassium	ppm	ASTM D5185(m)	>20	<b>&lt;1</b>	<1	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>0.4</b>	0.4	0.4
Nitration	Abs/cm	ASTM D7624*	>20	<b>9.0</b>	8.0	7.6
Sulfation	Abs/.1mm	ASTM D7415*	>30	<b>17.8</b>	19.6	18.2
Silt	scalar	Visual*	NONE	<b>NONE</b>	NONE	---
Debris	scalar	Visual*	NONE	<b>NONE</b>	NONE	---
Sand/Dirt	scalar	Visual*	NONE	<b>NONE</b>	NONE	---
Appearance	scalar	Visual*	NORML	<b>NORML</b>	NORML	---
Odor	scalar	Visual*	NORML	<b>NORML</b>	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	2
Boron	ppm	ASTM D5185(m)	250	<b>9</b>	2	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>911</b>	961	1001
Calcium	ppm	ASTM D5185(m)	3000	<b>1082</b>	1118	1060
Phosphorus	ppm	ASTM D5185(m)	1150	<b>989</b>	1077	1060
Zinc	ppm	ASTM D5185(m)	1350	<b>1172</b>	1205	1209
Sulfur	ppm	ASTM D5185(m)	4250	<b>2782</b>	2629	2603
Oxidation	Abs/.1mm	ASTM D7414*	>25	<b>14.6</b>	14.4	14.2
Visc @ 40°C	cSt	ASTM D7279(m)	73	<b>78.5</b>	89.1	89.4
Visc @ 100°C	cSt	ASTM D7279(m)	10.9	<b>12.0</b>	13.3	13.1
Viscosity Index (VI)	Scale	ASTM D2270*	138	<b>148</b>	149	146



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 LES ENTREPRISES MICHAUDVILLE INC.  
**Sample No.** : PC0083633 **Received** : 08 Jan 2024  
**Lab Number** : 02606961 **Diagnosed** : 09 Jan 2024  
**Unique Number** : 5708047 **Diagnostician** : Wes Davis  
**Test Package** : MOB 1 ( Additional Tests: KV40, VI, Visual )

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.