

Machine Id  
**1512**  
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>PC0085259</b>	PC0083531	PC0082248
Sample Date		Client Info		<b>27 May 2024</b>	07 Jan 2024	20 Sep 2023
Machine Age	kms	Client Info		<b>258401</b>	6666	6252
Oil Age	kms	Client Info		<b>0</b>	0	0
Filter Age	kms	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>7</b>	7	9
Chromium	ppm	ASTM D5185(m)	>20	<b>0</b>	0	0
Nickel	ppm	ASTM D5185(m)	>4	<b>0</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>0</b>	<1	0
Copper	ppm	ASTM D5185(m)	>330	<b>&lt;1</b>	<1	1
Tin	ppm	ASTM D5185(m)	>15	<b>0</b>	0	0
Vanadium	ppm	ASTM D5185(m)		<b>0</b>	0	0

**CONTAMINATION**

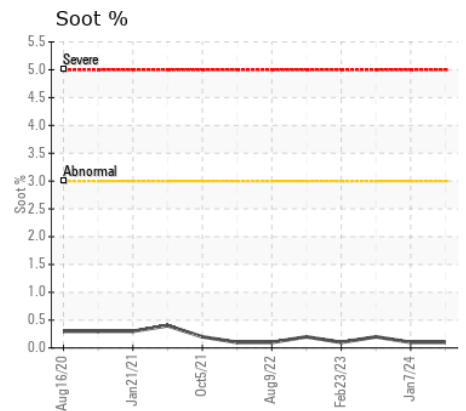
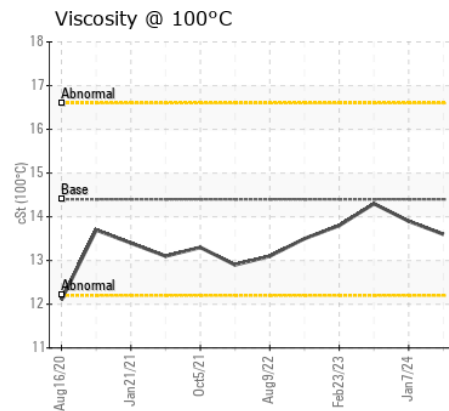
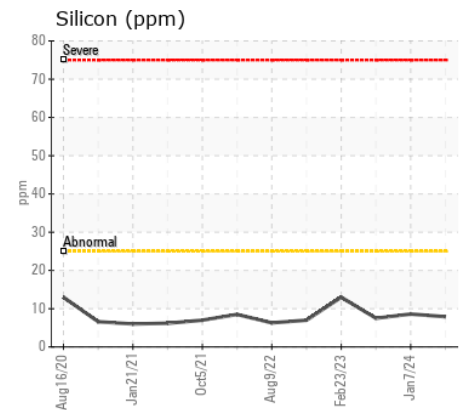
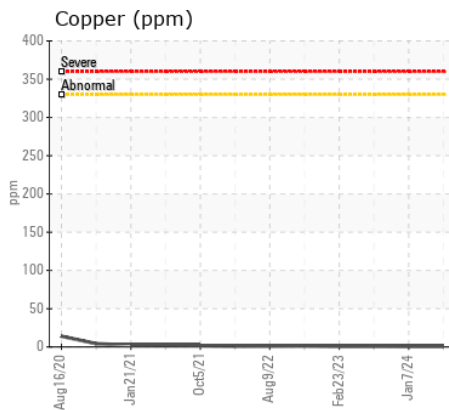
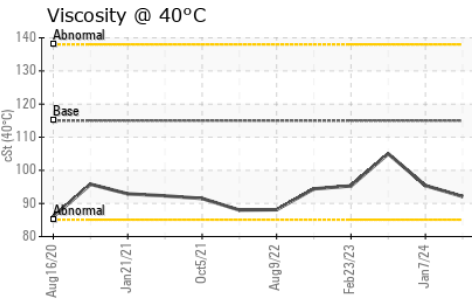
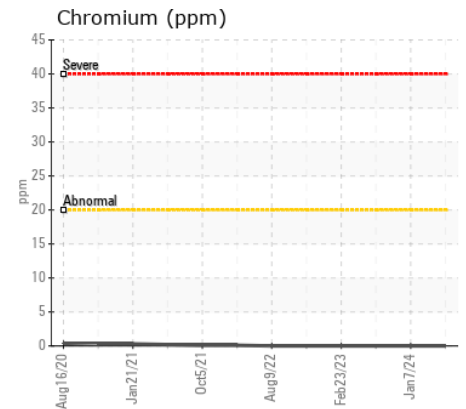
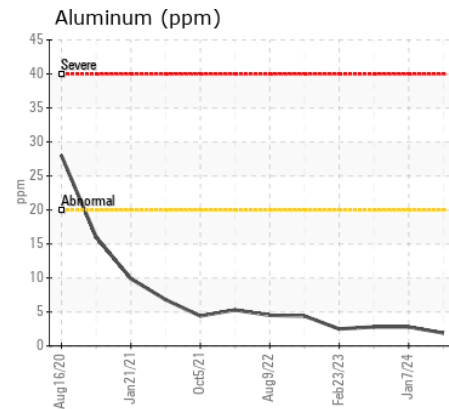
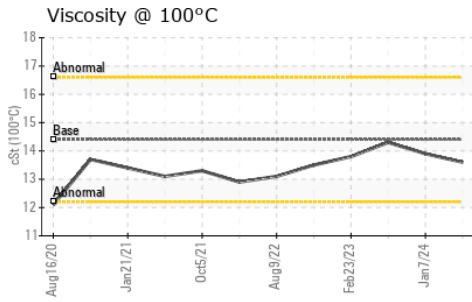
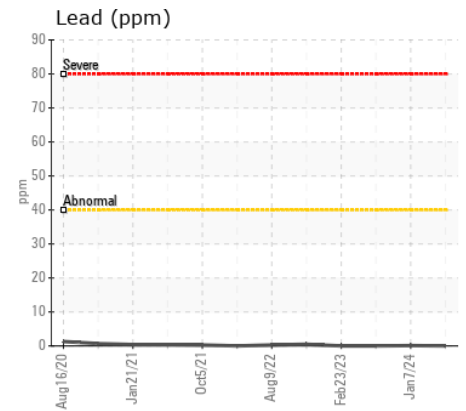
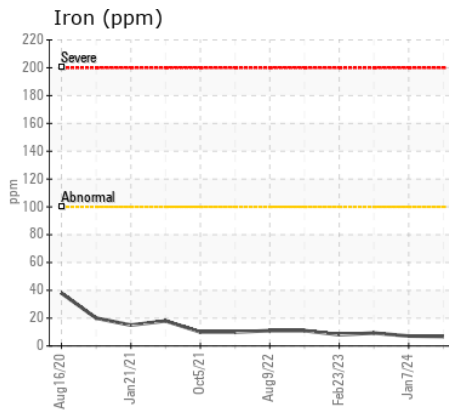
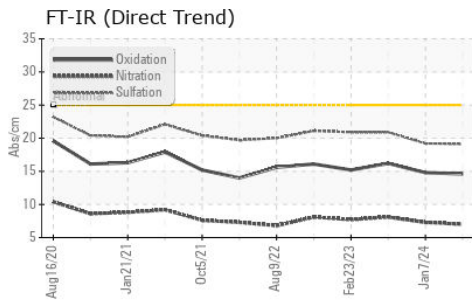
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>25	<b>8</b>	9	8
Potassium	ppm	ASTM D5185(m)	>20	<b>1</b>	3	7
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>0.1</b>	0.1	0.2
Nitration	Abs/cm	ASTM D7624*	>20	<b>7.0</b>	7.3	8.1
Sulfation	Abs/.1mm	ASTM D7415*	>30	<b>19.1</b>	19.2	20.9
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>	1	2
Boron	ppm	ASTM D5185(m)	250	<b>2</b>	7	73
Barium	ppm	ASTM D5185(m)	10	<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185(m)	100	<b>57</b>	53	16
Manganese	ppm	ASTM D5185(m)		<b>0</b>	0	0
Magnesium	ppm	ASTM D5185(m)	450	<b>957</b>	840	156
Calcium	ppm	ASTM D5185(m)	3000	<b>1113</b>	1183	2084
Phosphorus	ppm	ASTM D5185(m)	1150	<b>1022</b>	977	1023
Zinc	ppm	ASTM D5185(m)	1350	<b>1198</b>	1177	1178
Sulfur	ppm	ASTM D5185(m)	4250	<b>2551</b>	2708	2844
Oxidation	Abs/.1mm	ASTM D7414*	>25	<b>14.6</b>	14.8	16.2
Visc @ 40°C	cSt	ASTM D7279(m)	115	<b>92.1</b>	95.4	105
Visc @ 100°C	cSt	ASTM D7279(m)	14.4	<b>13.6</b>	13.9	14.3
Viscosity Index (VI)	Scale	ASTM D2270*	126	<b>149</b>	148	139



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : PC0085259  
**Lab Number** : 02637819  
**Unique Number** : 5786981  
**Test Package** : MOB 1 ( Additional Tests: KV40, VI )

**LES ENTREPRISES MICHAUDVILLE INC.**  
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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.