



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

Area

[83898]

Machine Id

1271 WALDEN CIRLCE MISSISSAUGA GSA PROPERTIES GSA PROPERTIES

Component

Left Diesel Engine

Fluid

ESSO XD-3 EXTRA 15W40 (45 LTR)

**RECOMMENDATION**

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>PN0005609</b>	PN0004357	PN0003202
Sample Date		Client Info		<b>31 Jan 2024</b>	20 Feb 2023	07 Jan 2022
Machine Age	hrs	Client Info		<b>270</b>	267	264
Oil Age	hrs	Client Info		<b>2</b>	0	1
Filter Age	hrs	Client Info		<b>2</b>	0	1
Oil Changed		Client Info		<b>Not Chngd</b>	Changed	Changed
Filter Changed		Client Info		<b>Not Chngd</b>	Changed	Changed
Sample Status				<b>NORMAL</b>	NORMAL	NORMAL

**WEAR**

Metal levels are typical for a new component breaking in.

Iron	ppm	ASTM D5185(m)	>100	<b>&lt;1</b>	1	<1
Chromium	ppm	ASTM D5185(m)	>20	<b>0</b>	0	0
Nickel	ppm	ASTM D5185(m)	>4	<b>&lt;1</b>	0	<1
Titanium	ppm	ASTM D5185(m)		<b>0</b>	0	0
Silver	ppm	ASTM D5185(m)	>3	<b>0</b>	0	0
Aluminum	ppm	ASTM D5185(m)	>20	<b>1</b>	<1	<1
Lead	ppm	ASTM D5185(m)	>40	<b>&lt;1</b>	2	1
Copper	ppm	ASTM D5185(m)	>330	<b>&lt;1</b>	1	<1
Tin	ppm	ASTM D5185(m)	>15	<b>&lt;1</b>	<1	<1
Vanadium	ppm	ASTM D5185(m)		<b>0</b>	0	0
White Metal	scalar	Visual*	NONE	<b>NONE</b>	---	---
Yellow Metal	scalar	Visual*	NONE	<b>VLITE</b>	---	---

**CONTAMINATION**

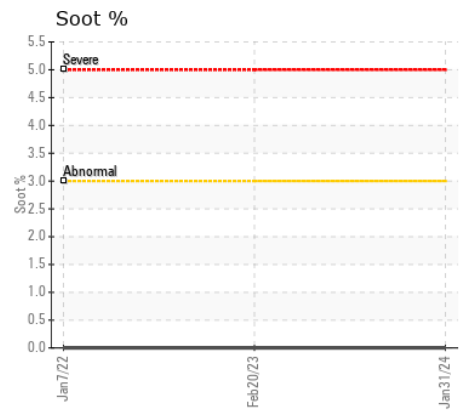
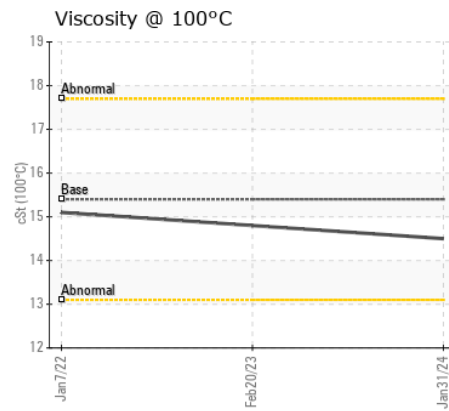
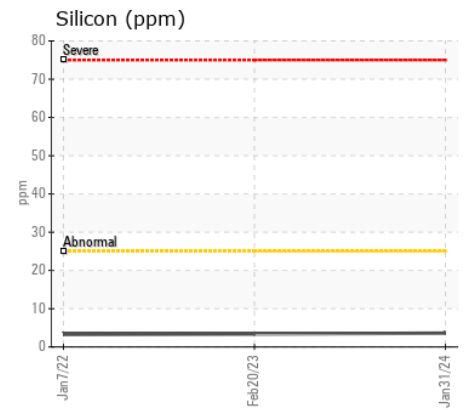
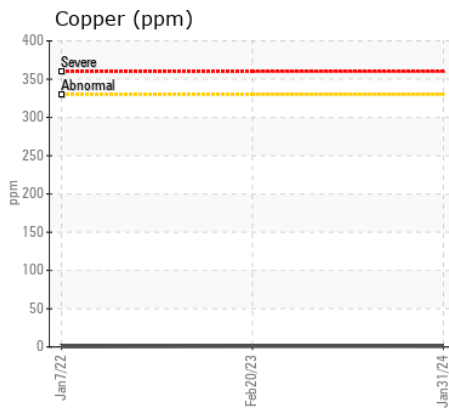
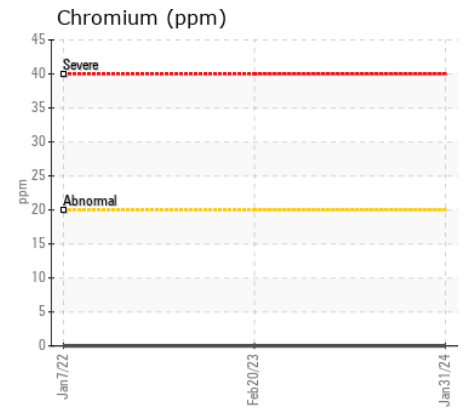
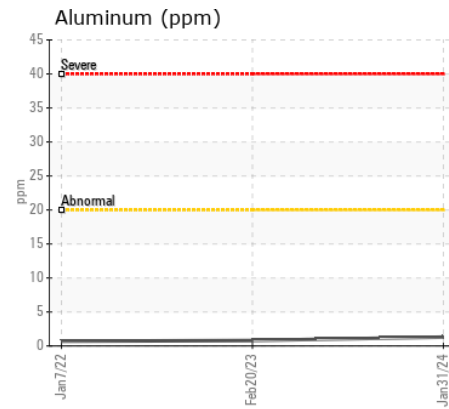
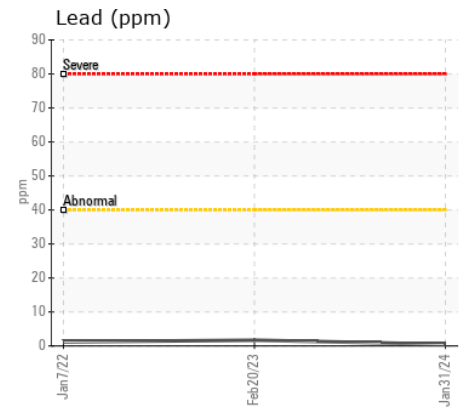
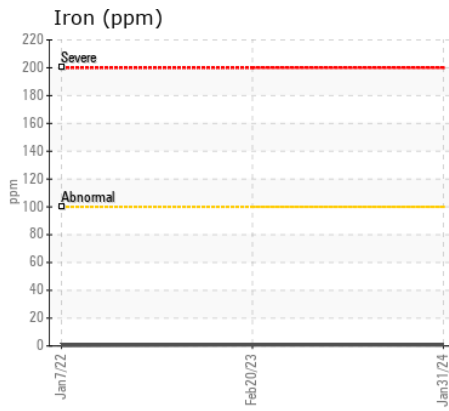
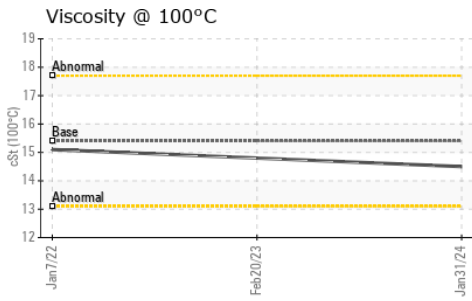
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>25	<b>4</b>	3	3
Potassium	ppm	ASTM D5185(m)	>20	<b>&lt;1</b>	<1	0
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</b>	0	0
Nitration	Abs/cm	ASTM D7624*	>20	<b>5.6</b>	5.4	4.0
Sulfation	Abs/.1mm	ASTM D7415*	>30	<b>17.4</b>	19.6	16.6
Silt	scalar	Visual*	NONE	<b>NONE</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)	>192	<b>&lt;1</b>	2	1
Boron	ppm	ASTM D5185(m)		<b>40</b>	48	51
Barium	ppm	ASTM D5185(m)		<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185(m)		<b>43</b>	60	58
Manganese	ppm	ASTM D5185(m)		<b>0</b>	0	0
Magnesium	ppm	ASTM D5185(m)		<b>614</b>	789	920
Calcium	ppm	ASTM D5185(m)	3780	<b>1403</b>	1196	1067
Phosphorus	ppm	ASTM D5185(m)	1370	<b>993</b>	1048	1033
Zinc	ppm	ASTM D5185(m)	1500	<b>1104</b>	1141	1178
Sulfur	ppm	ASTM D5185(m)	3800	<b>2994</b>	2669	2672
Oxidation	Abs/.1mm	ASTM D7414*	>25	<b>13.2</b>	14.9	10.8
Visc @ 100°C	cSt	ASTM D7279(m)	15.4	<b>14.5</b>	14.8	15.1



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : PN0005609 **Received** : 15 Feb 2024  
**Lab Number** : 02615900 **Tested** : 15 Feb 2024  
**Unique Number** : 5733010 **Diagnosed** : 15 Feb 2024 - Kevin Marson  
**Test Package** : MOB 1 ( Additional Tests: Visual )

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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.