



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

Machine Id  
**1313 WOODBINE AVE FIRE HALL 224 CITY OF TORONTO 39001063**

Component  
**Rear Diesel Engine**

Fluid  
**ESSO XD-3 EXTRA 15W40 (8 LTR)**

**RECOMMENDATION**

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>PN0006074</b>	PN0004648	PN0003505
Sample Date		Client Info		<b>10 May 2024</b>	12 May 2023	19 May 2022
Machine Age	hrs	Client Info		<b>125</b>	110	57
Oil Age	hrs	Client Info		<b>15</b>	53	32
Filter Age	hrs	Client Info		<b>15</b>	53	32
Oil Changed		Client Info		<b>Changed</b>	Changed	Changed
Filter Changed		Client Info		<b>Changed</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>9</b>	12	8
Chromium	ppm	ASTM D5185(m)	>20	<b>0</b>	0	0
Nickel	ppm	ASTM D5185(m)	>4	<b>0</b>	0	<1
Titanium	ppm	ASTM D5185(m)		<b>0</b>	<1	0
Silver	ppm	ASTM D5185(m)	>3	<b>0</b>	0	0
Aluminum	ppm	ASTM D5185(m)	>20	<b>2</b>	3	4
Lead	ppm	ASTM D5185(m)	>40	<b>&lt;1</b>	2	3
Copper	ppm	ASTM D5185(m)	>330	<b>4</b>	11	11
Tin	ppm	ASTM D5185(m)	>15	<b>0</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>NONE</b>	---	---

**CONTAMINATION**

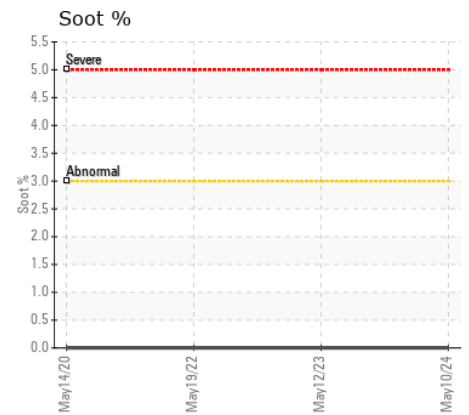
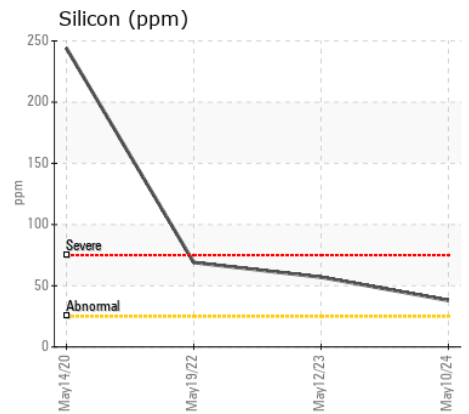
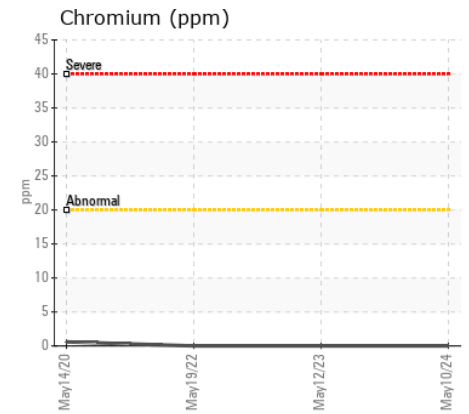
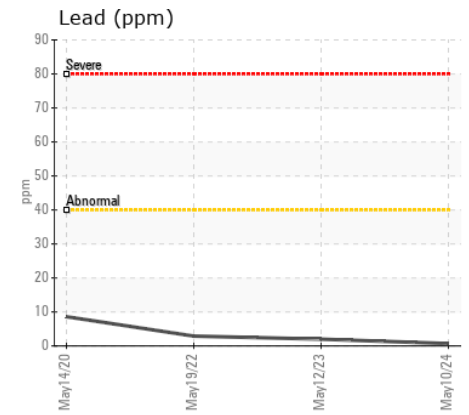
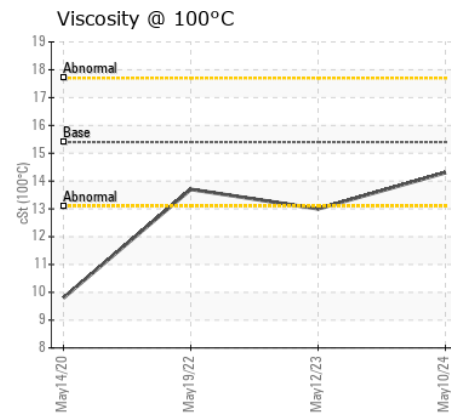
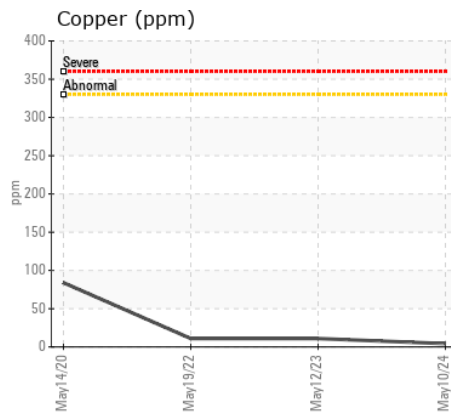
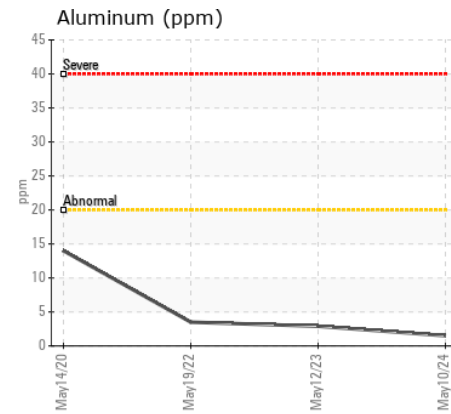
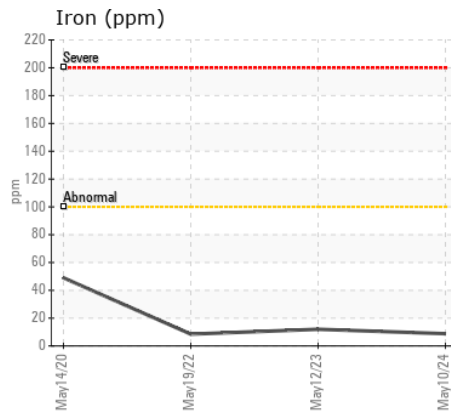
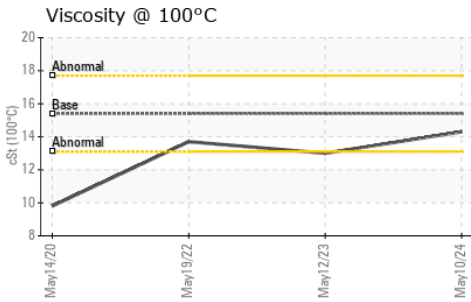
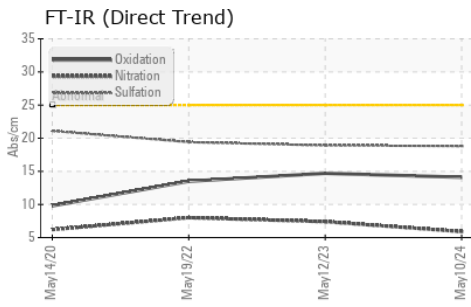
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>25	<b>38</b>	57	69
Potassium	ppm	ASTM D5185(m)	>20	<b>&lt;1</b>	1	2
Fuel		WC Method	>5	<b>&lt;1.0</b>	0.8	<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>5.9</b>	7.4	8.0
Sulfation	Abs/.1mm	ASTM D7415*	>30	<b>18.8</b>	18.9	19.4
Silt	scalar	Visual*	NONE	<b>NONE</b>	---	---
Debris	scalar	Visual*	NONE	<b>VLITE</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>2</b>	4	4
Boron	ppm	ASTM D5185(m)		<b>11</b>	39	66
Barium	ppm	ASTM D5185(m)		<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185(m)		<b>61</b>	67	86
Manganese	ppm	ASTM D5185(m)		<b>&lt;1</b>	1	<1
Magnesium	ppm	ASTM D5185(m)		<b>821</b>	447	27
Calcium	ppm	ASTM D5185(m)	3780	<b>1177</b>	1652	2121
Phosphorus	ppm	ASTM D5185(m)	1370	<b>973</b>	990	1025
Zinc	ppm	ASTM D5185(m)	1500	<b>1131</b>	1056	1140
Sulfur	ppm	ASTM D5185(m)	3800	<b>2555</b>	2665	3134
Oxidation	Abs/.1mm	ASTM D7414*	>25	<b>14.1</b>	14.7	13.5
Visc @ 100°C	cSt	ASTM D7279(m)	15.4	<b>14.3</b>	13.0	13.7



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : PN0006074 **Received** : 21 May 2024  
**Lab Number** : 02636565 **Tested** : 21 May 2024  
**Unique Number** : 5785727 **Diagnosed** : 21 May 2024 - Wes Davis  
**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.