



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

Area  
**[84350]**  
 Machine Id  
**14973 YOUNG ST, AURORA BELL CANADA GEN RM MAIN FLOOR**  
 Component  
**Rear Diesel Engine**  
 Fluid  
**ESSO XD-3 EXTRA 15W40 (40 LTR)**

**RECOMMENDATION**

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>PN0005781</b>	PN0004750	PN0003215
Sample Date		Client Info		<b>09 Feb 2024</b>	17 Mar 2023	01 Feb 2022
Machine Age	hrs	Client Info		<b>665</b>	650	601
Oil Age	hrs	Client Info		<b>15</b>	49	0
Filter Age	hrs	Client Info		<b>15</b>	49	0
Oil Changed		Client Info		<b>Changed</b>	Changed	Changed
Filter Changed		Client Info		<b>Changed</b>	Changed	Changed
Sample Status				<b>NORMAL</b>	MARGINAL	MARGINAL

**WEAR**

Metal levels are typical for a new component breaking in.

Iron	ppm	ASTM D5185(m)	>200	<b>1</b>	2	2
Chromium	ppm	ASTM D5185(m)	>20	<b>0</b>	0	0
Nickel	ppm	ASTM D5185(m)	>2	<b>0</b>	0	0
Titanium	ppm	ASTM D5185(m)	>2	<b>0</b>	0	0
Silver	ppm	ASTM D5185(m)	>2	<b>0</b>	0	0
Aluminum	ppm	ASTM D5185(m)	>30	<b>1</b>	<1	<1
Lead	ppm	ASTM D5185(m)	>30	<b>0</b>	1	<1
Copper	ppm	ASTM D5185(m)	>30	<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>	NONE	VLITE
Yellow Metal	scalar	Visual*	NONE	<b>NONE</b>	NONE	NONE

**CONTAMINATION**

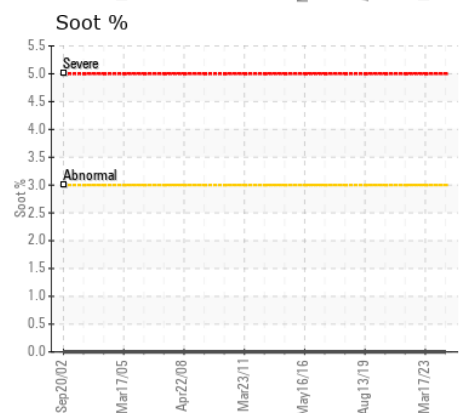
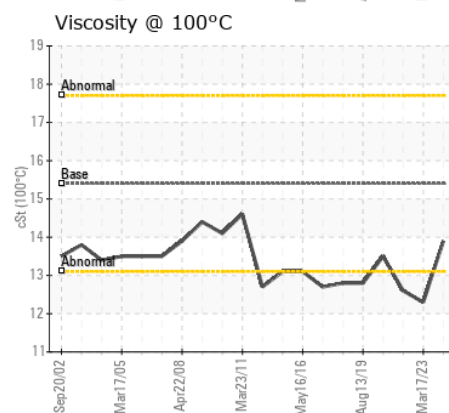
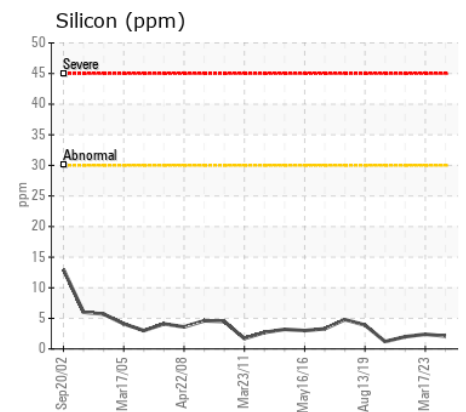
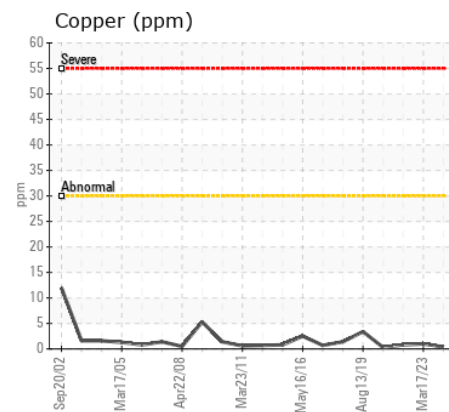
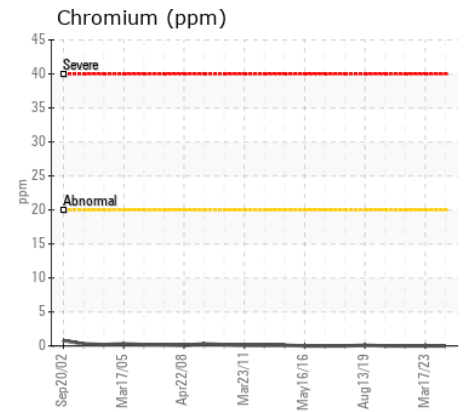
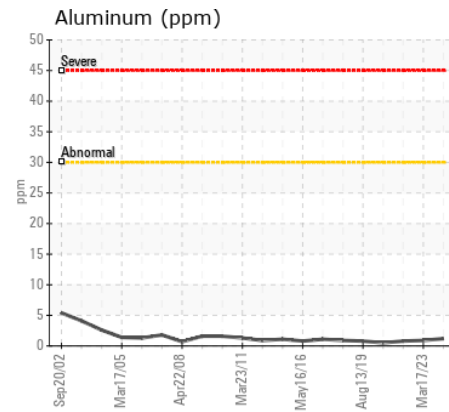
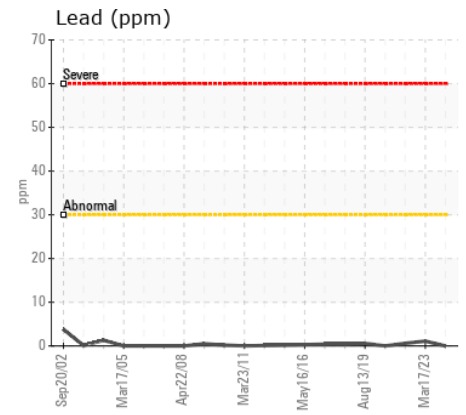
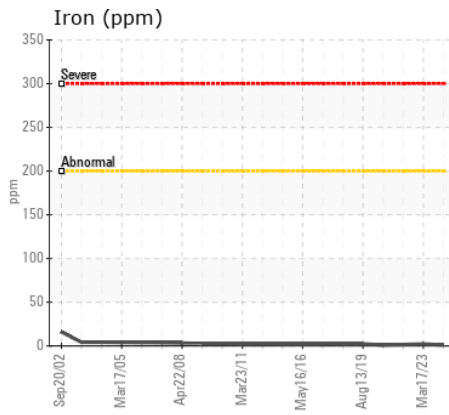
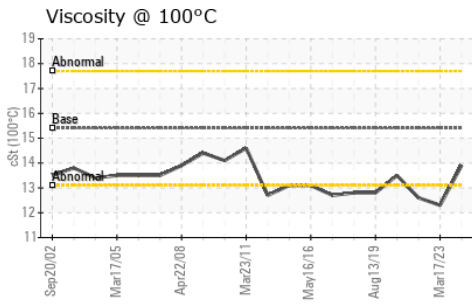
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>30	<b>2</b>	2	2
Potassium	ppm	ASTM D5185(m)	>20	<b>&lt;1</b>	<1	<1
Fuel		WC Method	>3.0	<b>&lt;1.0</b>	▲ 2.3	▲ 2
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>4.8</b>	6.5	5.2
Sulfation	Abs/.1mm	ASTM D7415*	>30	<b>17.9</b>	19.5	16.6
Silt	scalar	Visual*	NONE	<b>NONE</b>	NONE	NONE
Debris	scalar	Visual*	NONE	<b>NONE</b>	NONE	NONE
Sand/Dirt	scalar	Visual*	NONE	<b>NONE</b>	VLITE	NONE
Appearance	scalar	Visual*	NORML	<b>NORML</b>	NORML	NORML
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>1</b>	6	6
Boron	ppm	ASTM D5185(m)		<b>5</b>	26	18
Barium	ppm	ASTM D5185(m)		<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185(m)		<b>56</b>	49	37
Manganese	ppm	ASTM D5185(m)		<b>0</b>	0	0
Magnesium	ppm	ASTM D5185(m)		<b>891</b>	186	229
Calcium	ppm	ASTM D5185(m)	3780	<b>1113</b>	2010	1782
Phosphorus	ppm	ASTM D5185(m)	1370	<b>1031</b>	947	850
Zinc	ppm	ASTM D5185(m)	1500	<b>1151</b>	992	945
Sulfur	ppm	ASTM D5185(m)	3800	<b>2818</b>	2519	2260
Oxidation	Abs/.1mm	ASTM D7414*	>25	<b>13.2</b>	11.8	10.0
Visc @ 100°C	cSt	ASTM D7279(m)	15.4	<b>13.9</b>	12.3	12.6



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : PN0005781 **Received** : 15 Feb 2024  
**Lab Number** : 02615913 **Tested** : 15 Feb 2024  
**Unique Number** : 5733023 **Diagnosed** : 15 Feb 2024 - Kevin Marson  
**Test Package** : MOB 1 ( Additional Tests: 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.

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