



Machine Id  
**140 LANDSDOWNE AVE TORONTO BELL CANADA 57L0008939**

Component  
**Rear Natural Gas Engine**

Fluid  
**ESSO XD-3 EXTRA 15W40 (10 LTR)**

**RECOMMENDATION**

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>PN0005740</b>	PN0004560	PN0003216
Sample Date		Client Info		<b>08 Jan 2024</b>	25 Jan 2023	31 Jan 2022
Machine Age	hrs	Client Info		<b>79</b>	64	48
Oil Age	hrs	Client Info		<b>13</b>	0	15
Filter Age	hrs	Client Info		<b>13</b>	0	15
Oil Changed		Client Info		<b>Changed</b>	Changed	Changed
Filter Changed		Client Info		<b>Changed</b>	Changed	Not Changed
Sample Status				<b>NORMAL</b>	NORMAL	NORMAL

**WEAR**

Metal levels are typical for a new component breaking in.

Iron	ppm	ASTM D5185(m)	>50	<b>8</b>	12	27
Chromium	ppm	ASTM D5185(m)	>4	<b>0</b>	0	<1
Nickel	ppm	ASTM D5185(m)	>2	<b>0</b>	<1	<1
Titanium	ppm	ASTM D5185(m)		<b>0</b>	<1	0
Silver	ppm	ASTM D5185(m)	>3	<b>&lt;1</b>	0	0
Aluminum	ppm	ASTM D5185(m)	>9	<b>3</b>	4	7
Lead	ppm	ASTM D5185(m)	>30	<b>2</b>	2	3
Copper	ppm	ASTM D5185(m)	>35	<b>9</b>	17	19
Tin	ppm	ASTM D5185(m)	>4	<b>0</b>	<1	<1
Vanadium	ppm	ASTM D5185(m)		<b>0</b>	0	0

**CONTAMINATION**

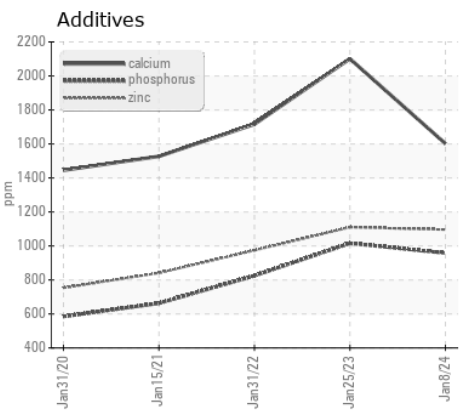
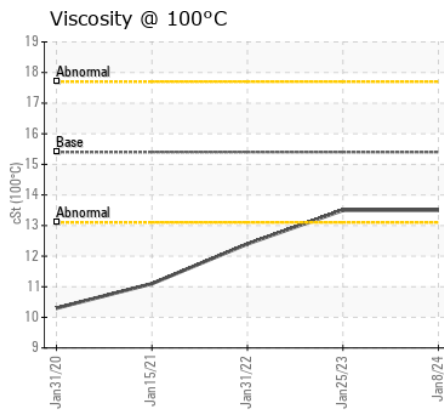
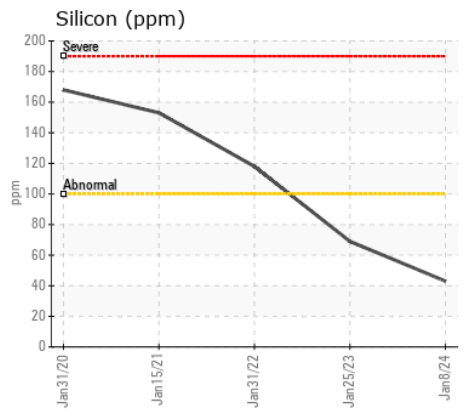
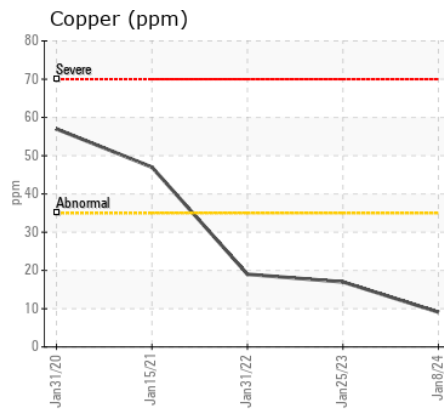
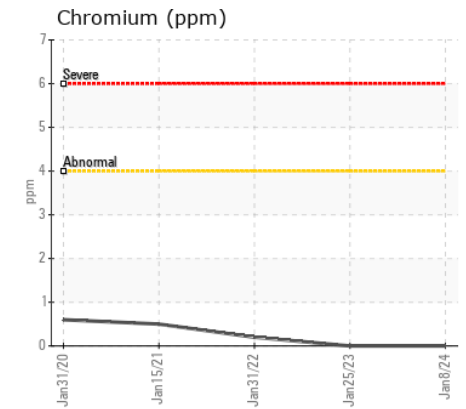
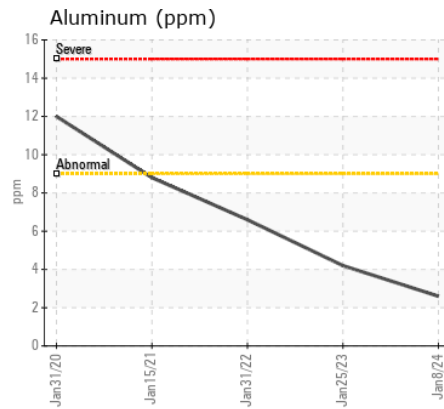
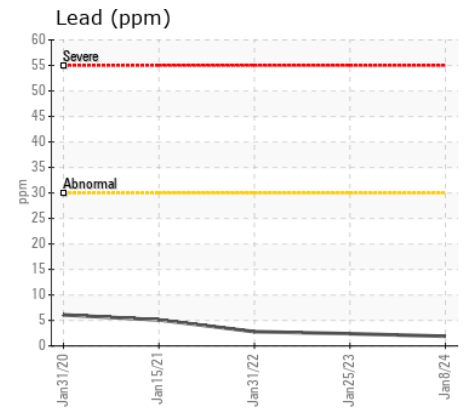
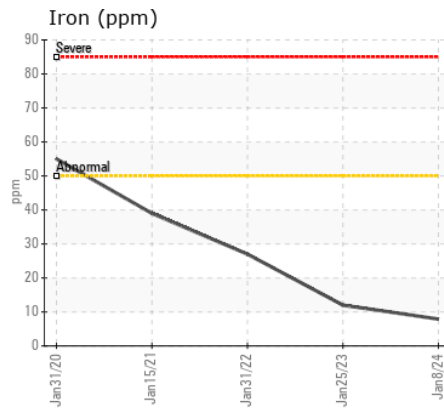
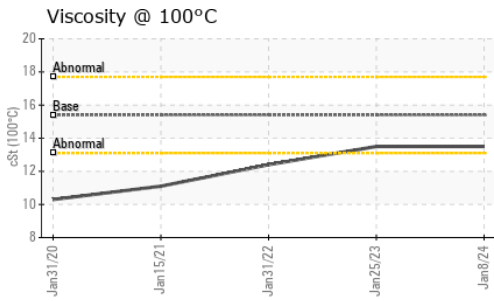
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>+100	<b>43</b>	69	118
Potassium	ppm	ASTM D5185(m)	>20	<b>2</b>	2	8
Water		WC Method	>0.1	<b>NEG</b>	NEG	NEG
Soot %	%	ASTM D7844*		<b>0</b>	0	0
Nitration	Abs/cm	ASTM D7624*	>20	<b>7.0</b>	8.2	7.3
Sulfation	Abs/.1mm	ASTM D7415*	>30	<b>18.0</b>	20.1	21.1
Emulsified Water	scalar	Visual*	>0.1	<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>3</b>	6	12
Boron	ppm	ASTM D5185(m)		<b>37</b>	63	54
Barium	ppm	ASTM D5185(m)		<b>0</b>	0	<1
Molybdenum	ppm	ASTM D5185(m)		<b>58</b>	84	85
Manganese	ppm	ASTM D5185(m)		<b>0</b>	1	4
Magnesium	ppm	ASTM D5185(m)		<b>433</b>	49	125
Calcium	ppm	ASTM D5185(m)	3780	<b>1602</b>	2101	1716
Phosphorus	ppm	ASTM D5185(m)	1370	<b>958</b>	1016	825
Zinc	ppm	ASTM D5185(m)	1500	<b>1096</b>	1110	974
Sulfur	ppm	ASTM D5185(m)	3800	<b>2996</b>	3147	2555
Oxidation	Abs/.1mm	ASTM D7414*	>25	<b>13.8</b>	14.6	16.0
Visc @ 100°C	cSt	ASTM D7279(m)	15.4	<b>13.5</b>	13.5	12.4



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : PN0005740 **Received** : 12 Jan 2024  
**Lab Number** : 02608529 **Diagnosed** : 12 Jan 2024  
**Unique Number** : 5709615 **Diagnostician** : Wes Davis  
**Test Package** : MOB 1

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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.