



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

Area  
**[85181]**

Machine Id  
**90 EGLINTON AVE W TORONTO, 6TH FLOOR AVIVA CANADA 134313**

Component  
**Left 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>PN0005951</b>	PN0004540	PN0003436
Sample Date		Client Info		<b>26 Mar 2024</b>	03 Feb 2023	31 Mar 2022
Machine Age	hrs	Client Info		<b>187</b>	814	810
Oil Age	hrs	Client Info		<b>4</b>	0	5
Filter Age	hrs	Client Info		<b>4</b>	0	0
Oil Changed		Client Info		<b>Changed</b>	Changed	Changed
Filter Changed		Client Info		<b>Changed</b>	Changed	N/A
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>2</b>	3	2
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>0</b>	0	0
Aluminum	ppm	ASTM D5185(m)	>9	<b>2</b>	3	3
Lead	ppm	ASTM D5185(m)	>30	<b>2</b>	2	2
Copper	ppm	ASTM D5185(m)	>35	<b>21</b>	14	11
Tin	ppm	ASTM D5185(m)	>4	<b>0</b>	<1	<1
Vanadium	ppm	ASTM D5185(m)		<b>0</b>	0	0

**CONTAMINATION**

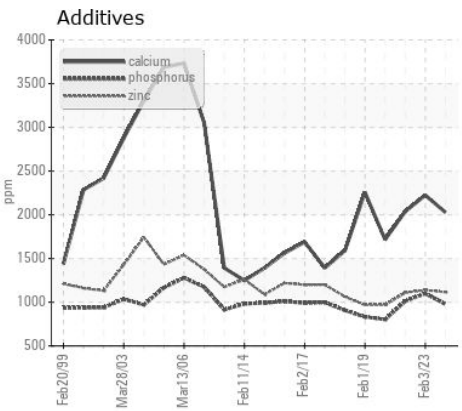
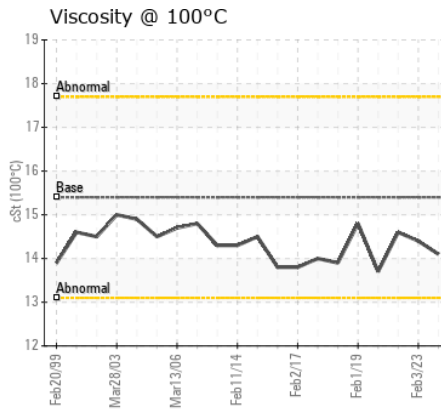
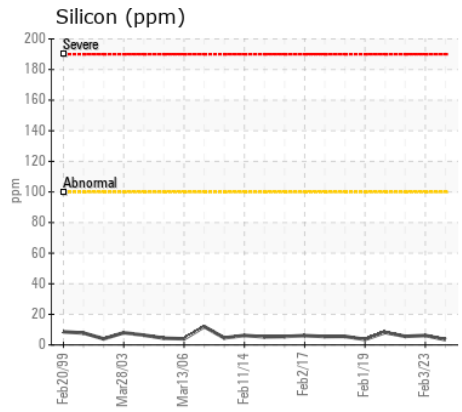
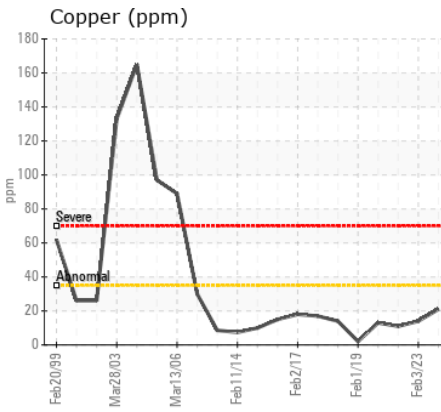
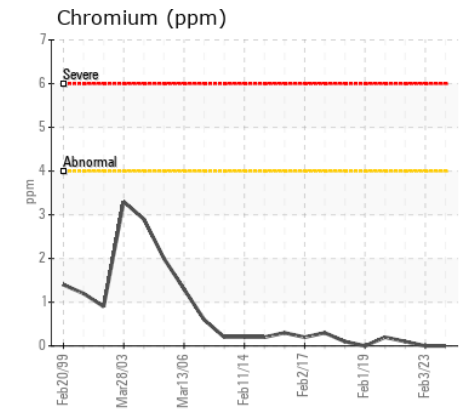
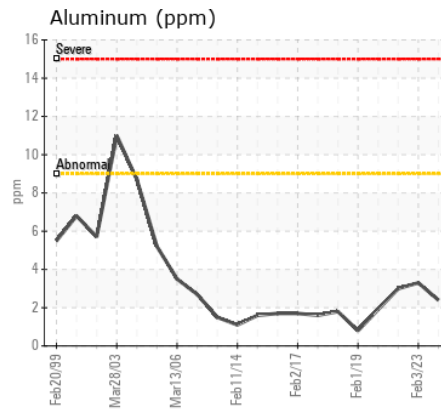
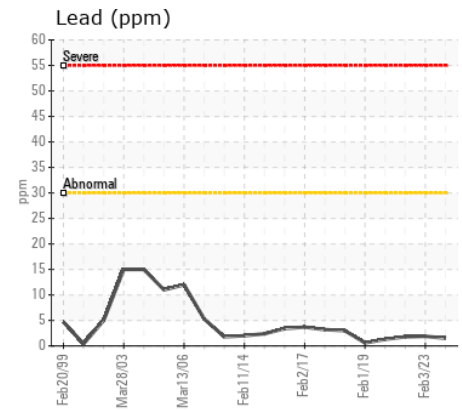
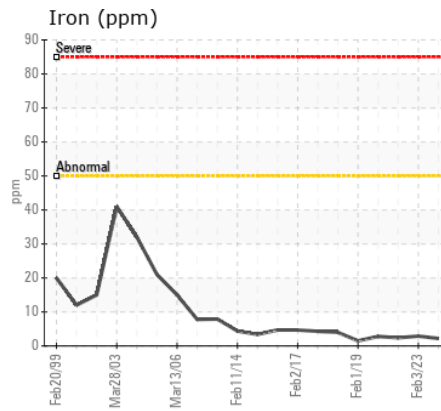
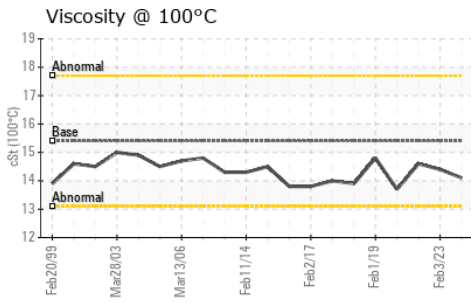
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>+100	<b>4</b>	6	6
Potassium	ppm	ASTM D5185(m)	>20	<b>&lt;1</b>	0	1
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>7.2</b>	7.1	7.7
Sulfation	Abs/.1mm	ASTM D7415*	>30	<b>16.8</b>	18.3	19.2
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>	3	3
Boron	ppm	ASTM D5185(m)		<b>68</b>	72	73
Barium	ppm	ASTM D5185(m)		<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185(m)		<b>63</b>	82	75
Manganese	ppm	ASTM D5185(m)		<b>0</b>	<1	0
Magnesium	ppm	ASTM D5185(m)		<b>133</b>	68	118
Calcium	ppm	ASTM D5185(m)	3780	<b>2028</b>	2224	2037
Phosphorus	ppm	ASTM D5185(m)	1370	<b>980</b>	1099	1012
Zinc	ppm	ASTM D5185(m)	1500	<b>1114</b>	1139	1109
Sulfur	ppm	ASTM D5185(m)	3800	<b>3070</b>	3239	3048
Oxidation	Abs/.1mm	ASTM D7414*	>25	<b>12.8</b>	12.6	14.6
Visc @ 100°C	cSt	ASTM D7279(m)	15.4	<b>14.1</b>	14.4	14.6



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : PN0005951 **Received** : 01 Apr 2024  
**Lab Number** : 02625661 **Tested** : 01 Apr 2024  
**Unique Number** : 5750780 **Diagnosed** : 01 Apr 2024 - Wes Davis  
**Test Package** : MOB 1

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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