



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

Machine Id  
**2167 ROYAL WINDSOR MISSISSAUGA CITY OF MISSISSAUGA EEIOH908699**

Component  
**Right Natural Gas Engine**  
 Fluid  
**ESSO XD-3 EXTRA 15W40 (60 LTR)**

**RECOMMENDATION**

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>PN0005760</b>	PN0004334	PN0003173
Sample Date		Client Info		<b>21 Dec 2023</b>	01 Dec 2022	06 Jan 2022
Machine Age	hrs	Client Info		<b>63</b>	49	40
Oil Age	hrs	Client Info		<b>14</b>	0	0
Filter Age	hrs	Client Info		<b>14</b>	0	0
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)	>50	<b>2</b>	2	2
Chromium	ppm	ASTM D5185(m)	>4	<b>0</b>	0	0
Nickel	ppm	ASTM D5185(m)	>2	<b>&lt;1</b>	<1	<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)	>9	<b>2</b>	<1	<1
Lead	ppm	ASTM D5185(m)	>30	<b>&lt;1</b>	2	3
Copper	ppm	ASTM D5185(m)	>35	<b>6</b>	13	10
Tin	ppm	ASTM D5185(m)	>4	<b>&lt;1</b>	<1	<1
Vanadium	ppm	ASTM D5185(m)		<b>0</b>	0	0

**CONTAMINATION**

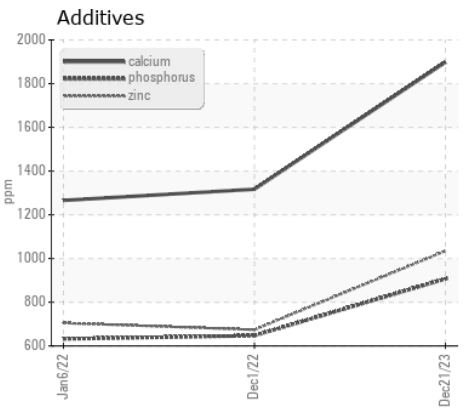
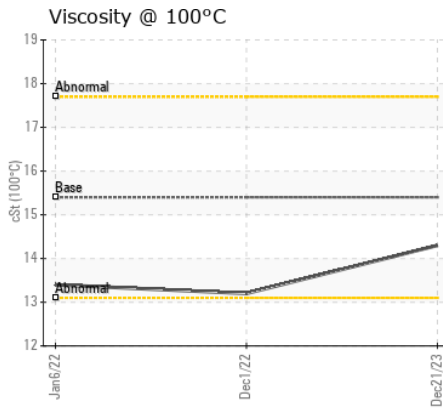
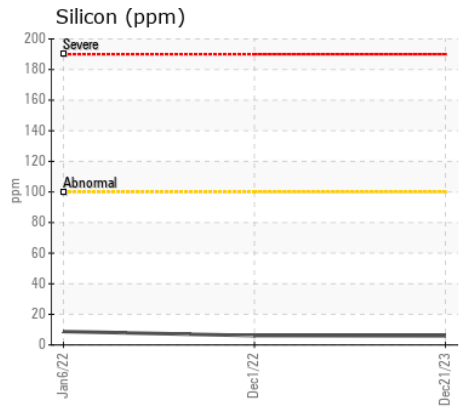
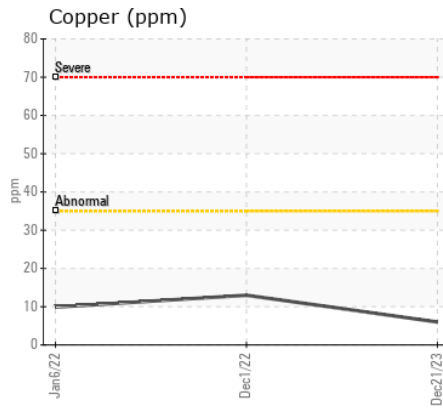
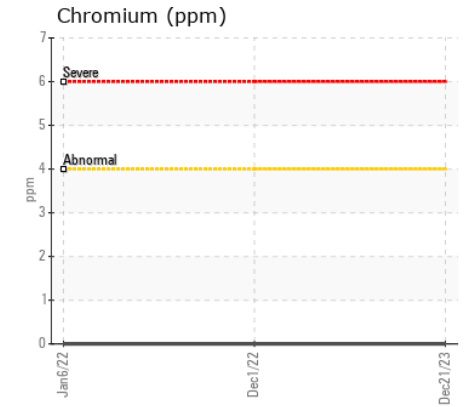
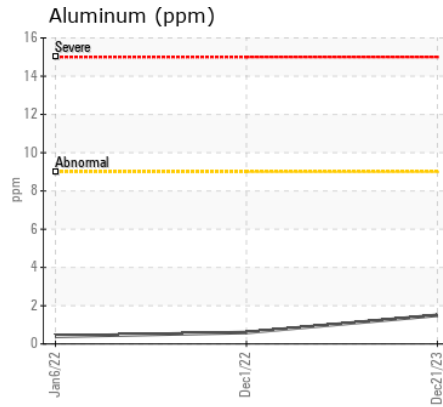
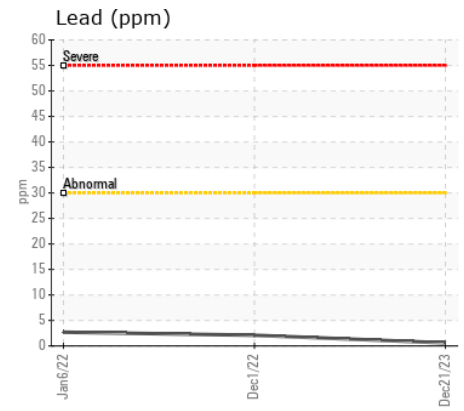
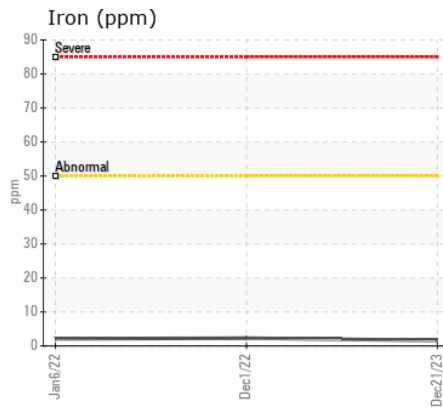
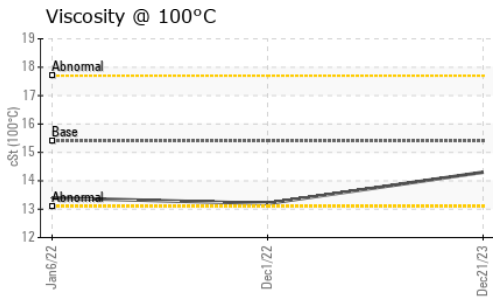
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>+100	<b>6</b>	6	9
Potassium	ppm	ASTM D5185(m)	>20	<b>1</b>	<1	2
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>6.7</b>	3.9	2.7
Sulfation	Abs/.1mm	ASTM D7415*	>30	<b>16.1</b>	14.5	12.4
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>&lt;1</b>	1	<1
Boron	ppm	ASTM D5185(m)		<b>56</b>	2	4
Barium	ppm	ASTM D5185(m)		<b>0</b>	<1	<1
Molybdenum	ppm	ASTM D5185(m)		<b>4</b>	1	2
Manganese	ppm	ASTM D5185(m)		<b>0</b>	<1	<1
Magnesium	ppm	ASTM D5185(m)		<b>30</b>	15	24
Calcium	ppm	ASTM D5185(m)	3780	<b>1898</b>	1317	1266
Phosphorus	ppm	ASTM D5185(m)	1370	<b>907</b>	647	632
Zinc	ppm	ASTM D5185(m)	1500	<b>1034</b>	674	705
Sulfur	ppm	ASTM D5185(m)	3800	<b>3194</b>	1734	1696
Oxidation	Abs/.1mm	ASTM D7414*	>25	<b>11.7</b>	7.3	4.3
Visc @ 100°C	cSt	ASTM D7279(m)	15.4	<b>14.3</b>	13.2	13.4



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : PN0005760 **Received** : 08 Jan 2024  
**Lab Number** : 02606994 **Diagnosed** : 08 Jan 2024  
**Unique Number** : 5708080 **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.