



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

Area

[86705]

Machine Id

5.7 V8 CITY OF TORONTO 57L0001589E16

Component

Rear Natural Gas 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>PN0006306</b>	PN0004971	PN0003712
Sample Date		Client Info		<b>14 Jun 2024</b>	27 Jun 2023	17 Jun 2022
Machine Age	hrs	Client Info		<b>150</b>	134	117
Oil Age	hrs	Client Info		<b>134</b>	0	0
Filter Age	hrs	Client Info		<b>134</b>	0	0
Oil Changed		Client Info		<b>Changed</b>	Changed	Changed
Filter Changed		Client Info		<b>Not 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>10</b>	8	9
Chromium	ppm	ASTM D5185(m)	>4	<b>&lt;1</b>	<1	<1
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>&lt;1</b>	0	0
Aluminum	ppm	ASTM D5185(m)	>9	<b>2</b>	3	3
Lead	ppm	ASTM D5185(m)	>30	<b>4</b>	4	5
Copper	ppm	ASTM D5185(m)	>35	<b>20</b>	22	29
Tin	ppm	ASTM D5185(m)	>4	<b>1</b>	2	2
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**

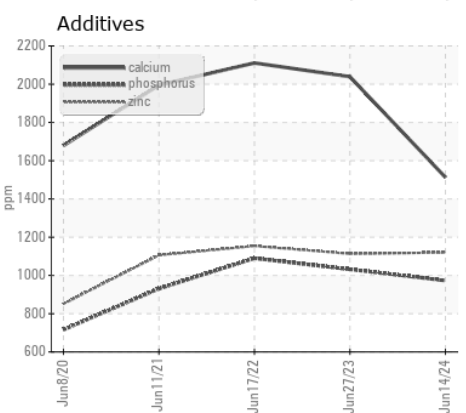
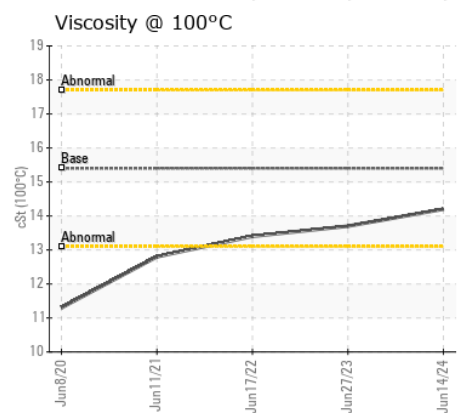
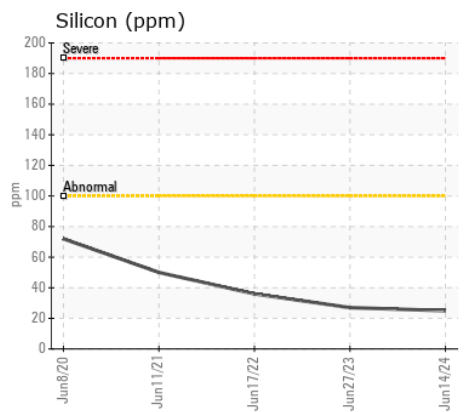
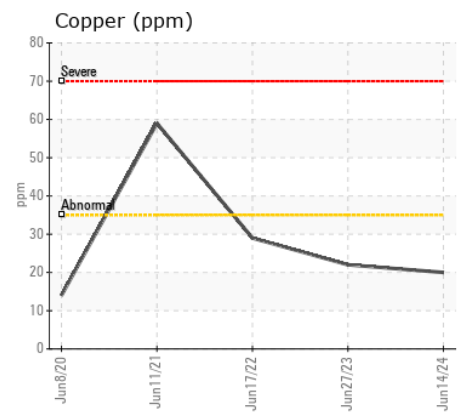
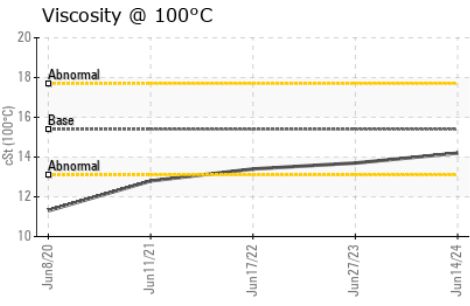
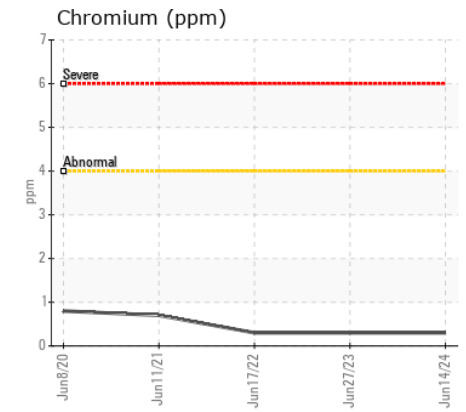
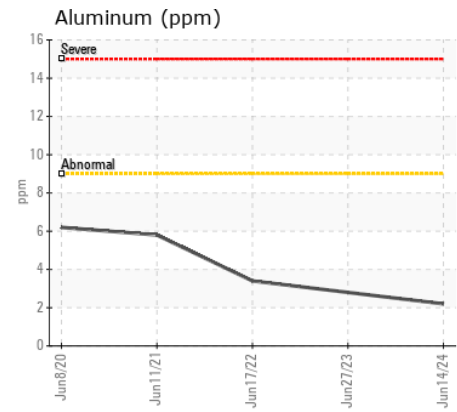
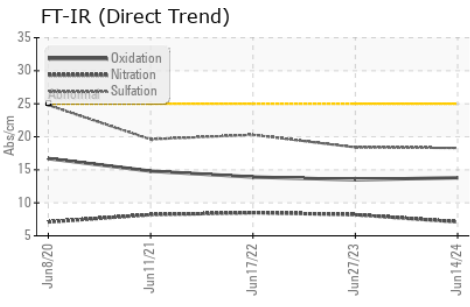
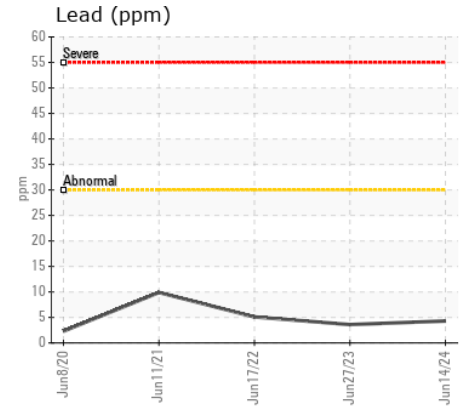
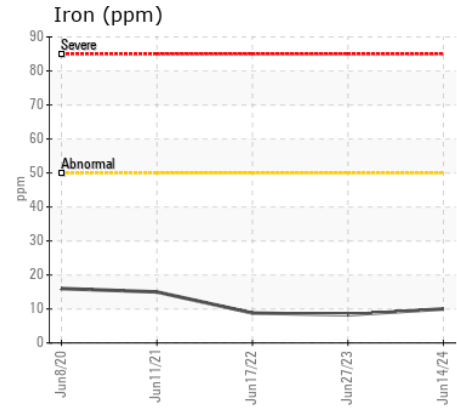
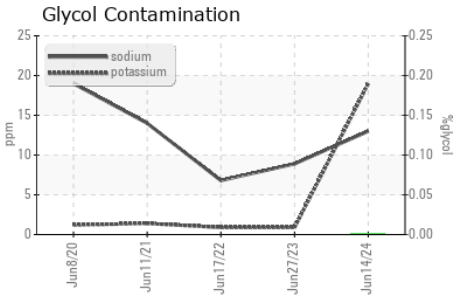
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>+100	<b>25</b>	27	36
Potassium	ppm	ASTM D5185(m)	>20	<b>19</b>	<1	<1
Water		WC Method	>0.1	<b>NEG</b>	NEG	NEG
Glycol	%	ASTM D7922*		<b>0.0</b>	---	---
Soot %	%	ASTM D7844*		<b>0</b>	0	0
Nitration	Abs/cm	ASTM D7624*	>20	<b>7.1</b>	8.2	8.5
Sulfation	Abs/.1mm	ASTM D7415*	>30	<b>18.3</b>	18.4	20.3
Silt	scalar	Visual*	NONE	<b>VLITE</b>	---	---
Debris	scalar	Visual*	NONE	<b>NONE</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*	>0.1	<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>13</b>	9	7
Boron	ppm	ASTM D5185(m)		<b>27</b>	59	60
Barium	ppm	ASTM D5185(m)		<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185(m)		<b>48</b>	33	80
Manganese	ppm	ASTM D5185(m)		<b>&lt;1</b>	<1	<1
Magnesium	ppm	ASTM D5185(m)		<b>528</b>	67	65
Calcium	ppm	ASTM D5185(m)	3780	<b>1513</b>	2039	2111
Phosphorus	ppm	ASTM D5185(m)	1370	<b>973</b>	1032	1090
Zinc	ppm	ASTM D5185(m)	1500	<b>1120</b>	1113	1154
Sulfur	ppm	ASTM D5185(m)	3800	<b>2707</b>	3055	3104
Oxidation	Abs/.1mm	ASTM D7414*	>25	<b>13.8</b>	13.5	13.9
Visc @ 100°C	cSt	ASTM D7279(m)	15.4	<b>14.2</b>	13.7	13.4



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : PN0006306 **Received** : 24 Jun 2024  
**Lab Number** : 02643715 **Tested** : 25 Jun 2024  
**Unique Number** : 5801254 **Diagnosed** : 25 Jun 2024 - Wes Davis  
**Test Package** : MOB 1 ( Additional Tests: Glycol, 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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