



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

Area

**[85988]**

Machine Id

**150 BOROUGH DR SCARBOROUGH CITY OF TORONTO ROOF**

Component

**Right Natural Gas 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>PN0006169</b>	PN0004765	PN0003509
Sample Date		Client Info		<b>09 May 2024</b>	23 May 2023	17 May 2022
Machine Age	hrs	Client Info		<b>223</b>	201	186
Oil Age	hrs	Client Info		<b>22</b>	15	21
Filter Age	hrs	Client Info		<b>22</b>	15	21
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>4</b>	3	6
Chromium	ppm	ASTM D5185(m)	>4	<b>0</b>	0	0
Nickel	ppm	ASTM D5185(m)	>2	<b>0</b>	0	0
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>&lt;1</b>	1	3
Lead	ppm	ASTM D5185(m)	>30	<b>1</b>	3	6
Copper	ppm	ASTM D5185(m)	>35	<b>7</b>	14	33
Tin	ppm	ASTM D5185(m)	>4	<b>0</b>	0	<1
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**

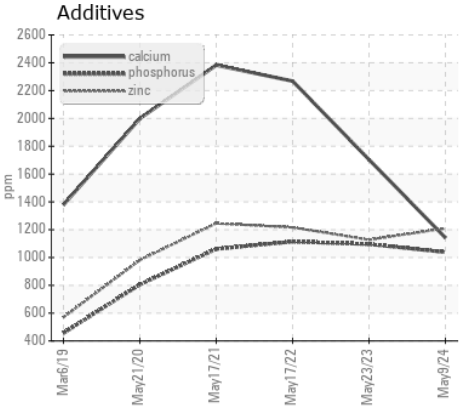
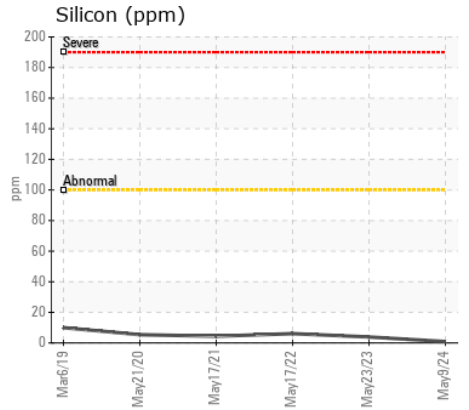
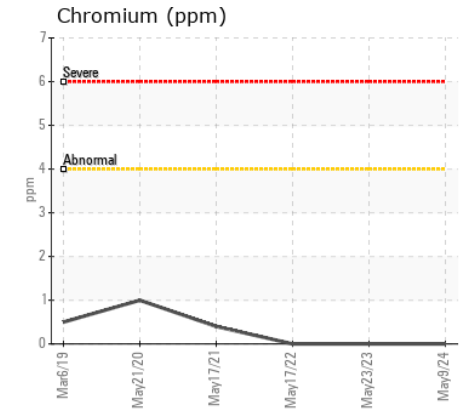
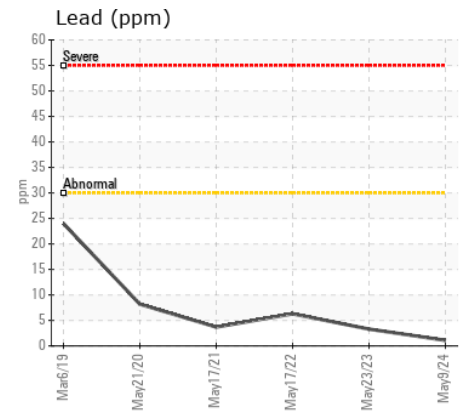
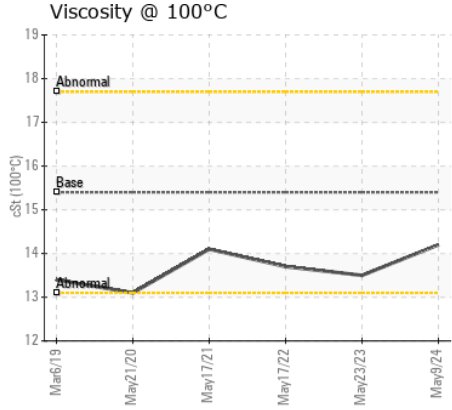
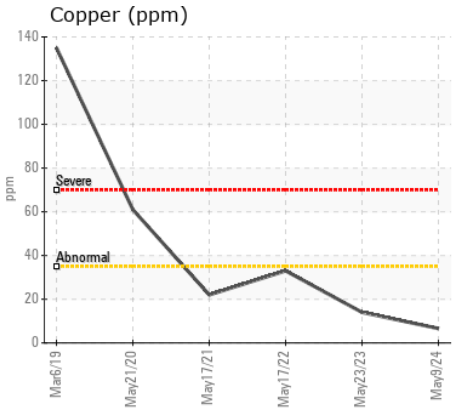
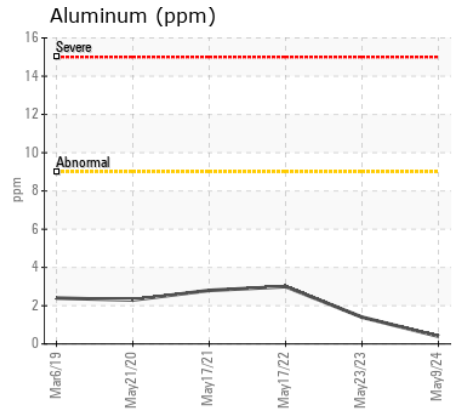
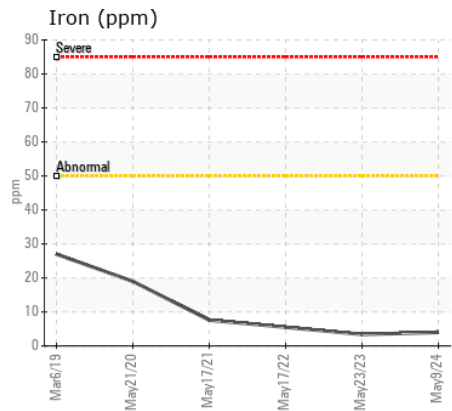
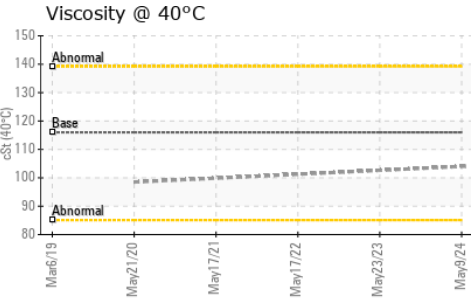
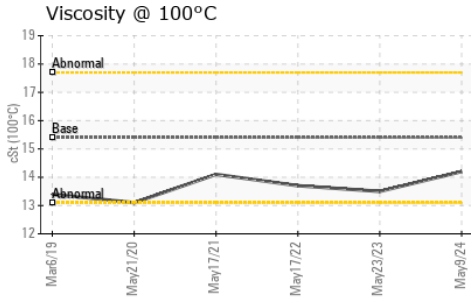
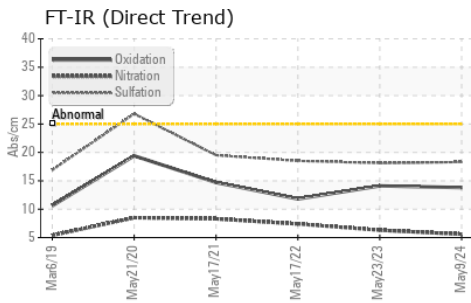
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>+100	<b>&lt;1</b>	4	6
Potassium	ppm	ASTM D5185(m)	>20	<b>0</b>	<1	<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>5.6</b>	6.3	7.4
Sulfation	Abs/.1mm	ASTM D7415*	>30	<b>18.3</b>	18.1	18.5
Silt	scalar	Visual*	NONE	<b>VLITE</b>	---	---
Debris	scalar	Visual*	NONE	<b>VLITE</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>2</b>	3	5
Boron	ppm	ASTM D5185(m)		<b>12</b>	38	70
Barium	ppm	ASTM D5185(m)		<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185(m)		<b>61</b>	69	90
Manganese	ppm	ASTM D5185(m)		<b>0</b>	<1	<1
Magnesium	ppm	ASTM D5185(m)		<b>965</b>	490	29
Calcium	ppm	ASTM D5185(m)	3780	<b>1142</b>	1704	2268
Phosphorus	ppm	ASTM D5185(m)	1370	<b>1038</b>	1096	1114
Zinc	ppm	ASTM D5185(m)	1500	<b>1209</b>	1127	1216
Sulfur	ppm	ASTM D5185(m)	3800	<b>2662</b>	2878	3361
Oxidation	Abs/.1mm	ASTM D7414*	>25	<b>13.8</b>	14.1	11.8
Visc @ 40°C	cSt	ASTM D7279(m)	116	<b>104</b>	---	---
Visc @ 100°C	cSt	ASTM D7279(m)	15.4	<b>14.2</b>	13.5	13.7
Viscosity Index (VI)	Scale	ASTM D2270*	140	<b>139</b>	---	---



ISO 17025:2017  
Accredited  
Laboratory

**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : PN0006169  
**Lab Number** : 02637379  
**Unique Number** : 5786541  
**Test Package** : MOB 1 ( Additional Tests: KV40, VI, Visual )

**Received** : 24 May 2024  
**Tested** : 24 May 2024  
**Diagnosed** : 24 May 2024 - Wes Davis

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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