



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Area

[86759]

Machine Id

358 KEELE ST TORONTO CITY OF TORONTO 358 KEELE CITY OF TORONTO 358 KEELE

Component

Left Natural Gas Engine

Fluid

ESSO XD-3 EXTRA 15W40 (5 LTR)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		PN0006304	PN0003638	---
Sample Date		Client Info		14 Jun 2024	08 Jun 2022	---
Machine Age	hrs	Client Info		118	86	---
Oil Age	hrs	Client Info		14	23	---
Filter Age	hrs	Client Info		14	23	---
Oil Changed		Client Info		Changed	Changed	---
Filter Changed		Client Info		Changed	Changed	---
Sample Status				NORMAL	ABNORMAL	---

WEAR

Metal levels are typical for a new component breaking in.

Iron	ppm	ASTM D5185(m)	>50	8	6	---
Chromium	ppm	ASTM D5185(m)	>4	0	0	---
Nickel	ppm	ASTM D5185(m)	>2	0	0	---
Titanium	ppm	ASTM D5185(m)		0	0	---
Silver	ppm	ASTM D5185(m)	>3	0	0	---
Aluminum	ppm	ASTM D5185(m)	>9	1	2	---
Lead	ppm	ASTM D5185(m)	>30	0	<1	---
Copper	ppm	ASTM D5185(m)	>35	2	2	---
Tin	ppm	ASTM D5185(m)	>4	0	2	---
Vanadium	ppm	ASTM D5185(m)		0	0	---
White Metal	scalar	Visual*	NONE	NONE	---	---
Yellow Metal	scalar	Visual*	NONE	NONE	---	---

CONTAMINATION

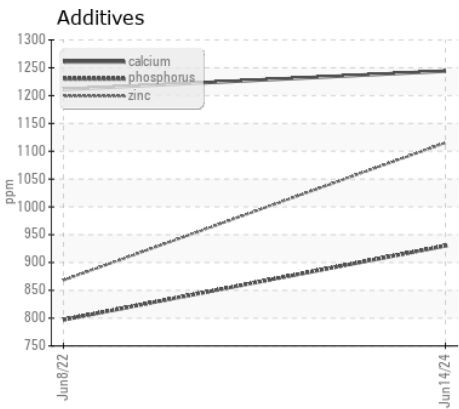
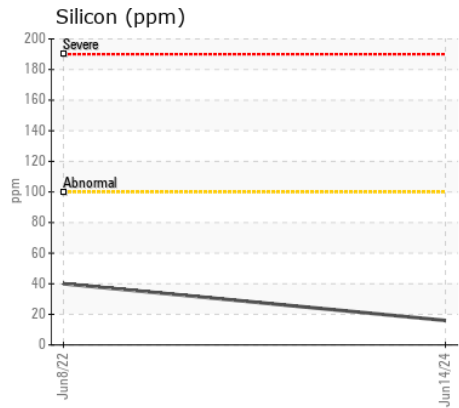
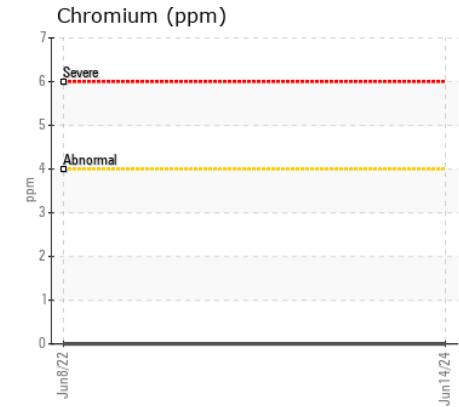
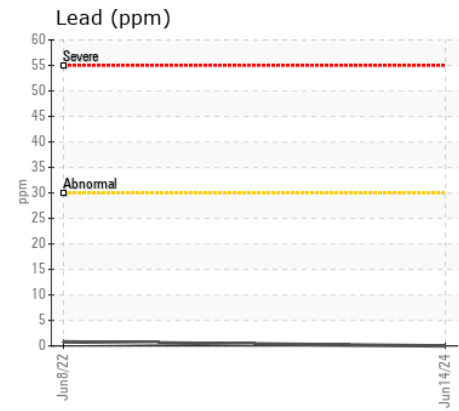
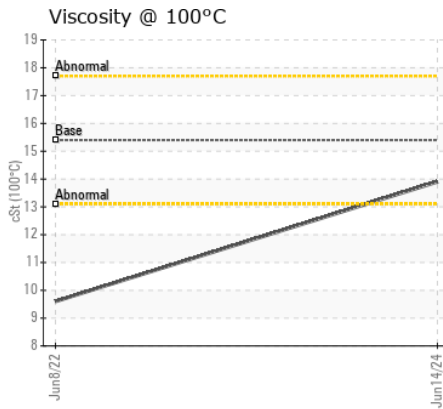
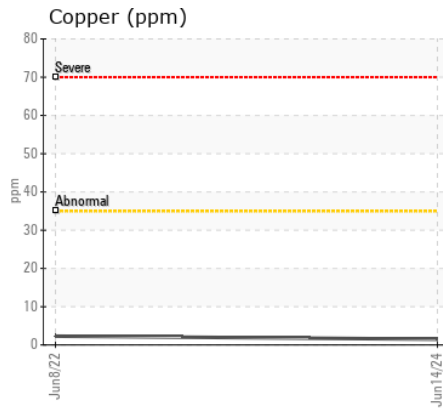
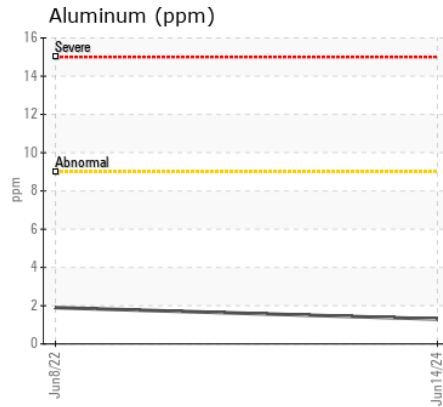
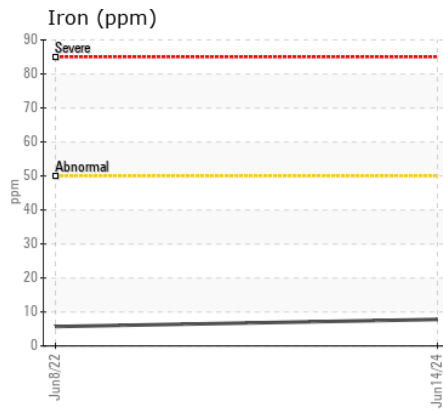
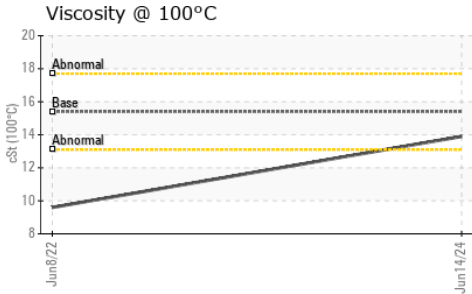
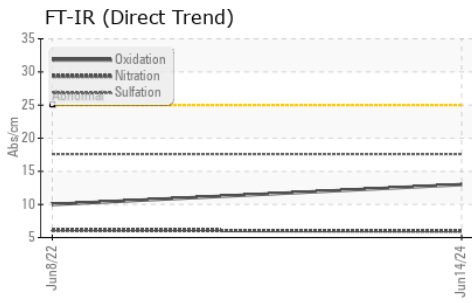
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>+100	16	40	---
Potassium	ppm	ASTM D5185(m)	>20	<1	<1	---
Water		WC Method	>0.1	NEG	NEG	---
Soot %	%	ASTM D7844*		0	0	---
Nitration	Abs/cm	ASTM D7624*	>20	6.0	6.1	---
Sulfation	Abs/.1mm	ASTM D7415*	>30	17.6	17.6	---
Silt	scalar	Visual*	NONE	NONE	---	---
Debris	scalar	Visual*	NONE	VLITE	---	---
Sand/Dirt	scalar	Visual*	NONE	NONE	---	---
Appearance	scalar	Visual*	NORML	NORML	---	---
Odor	scalar	Visual*	NORML	NORML	NORML	---
Emulsified Water	scalar	Visual*	>0.1	NEG	NEG	---

FLUID CONDITION

The condition of the oil is acceptable for the time in service.

Sodium	ppm	ASTM D5185(m)	>192	2	2	---
Boron	ppm	ASTM D5185(m)		20	119	---
Barium	ppm	ASTM D5185(m)		0	0	---
Molybdenum	ppm	ASTM D5185(m)		47	76	---
Manganese	ppm	ASTM D5185(m)		<1	<1	---
Magnesium	ppm	ASTM D5185(m)		696	446	---
Calcium	ppm	ASTM D5185(m)	3780	1244	1211	---
Phosphorus	ppm	ASTM D5185(m)	1370	930	797	---
Zinc	ppm	ASTM D5185(m)	1500	1115	868	---
Sulfur	ppm	ASTM D5185(m)	3800	2605	2641	---
Oxidation	Abs/.1mm	ASTM D7414*	>25	13.0	10.0	---
Visc @ 100°C	cSt	ASTM D7279(m)	15.4	13.9	▲ 9.6	---



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : PN0006304 **Received** : 25 Jun 2024
Lab Number : 02644024 **Tested** : 25 Jun 2024
Unique Number : 5801563 **Diagnosed** : 25 Jun 2024 - Wes Davis
Test Package : MOB 1 (Additional Tests: 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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