



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Area
[84186]
 Machine Id
207 FRONT ST FH333 TORONTO CITY OF TORONTO 39004160
 Component
Left Natural Gas Engine
 Fluid
ESSO XD-3 EXTRA 15W40 (7 LTR)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		PN0005777	PN0005192	PN0004150
Sample Date		Client Info		14 Feb 2024	12 Oct 2023	26 Oct 2022
Machine Age	hrs	Client Info		92	135	120
Oil Age	hrs	Client Info		15	120	0
Filter Age	hrs	Client Info		15	120	0
Oil Changed		Client Info		Not Changd	Changed	Changed
Filter Changed		Client Info		Not Changd	Not Changd	Not Changd
Sample Status				NORMAL	NORMAL	NORMAL

WEAR

Metal levels are typical for a new component breaking in.

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

CONTAMINATION

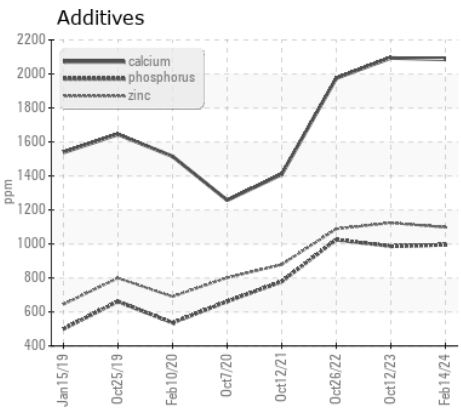
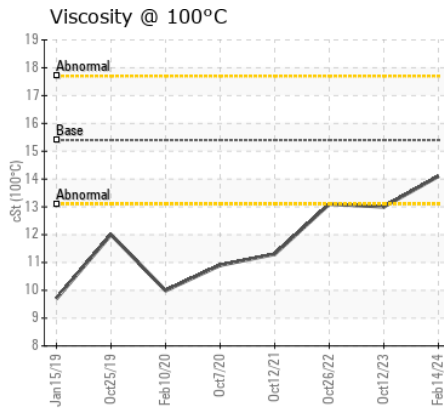
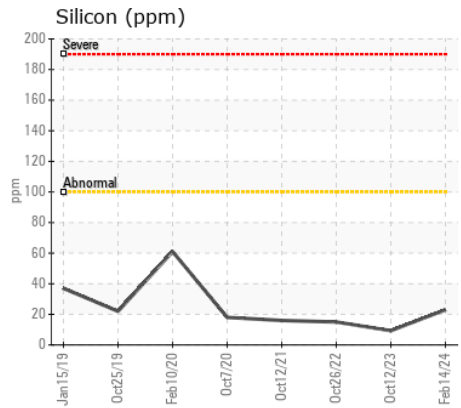
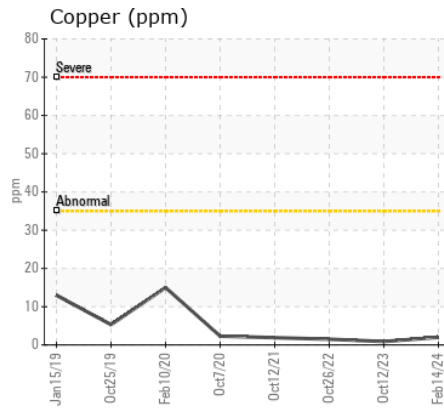
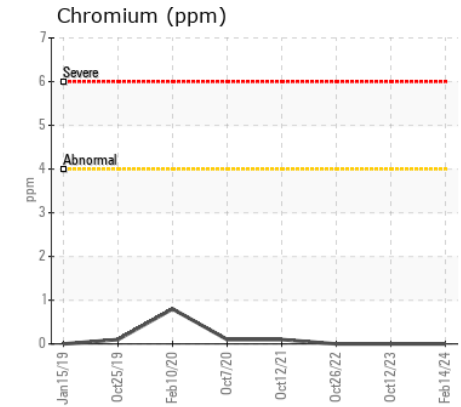
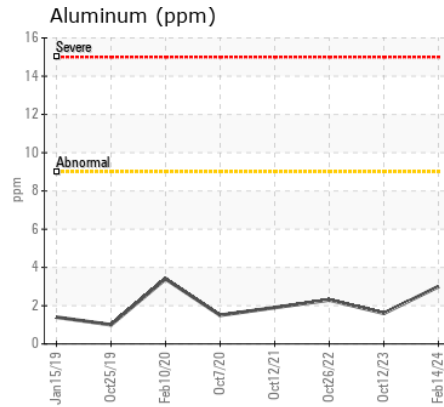
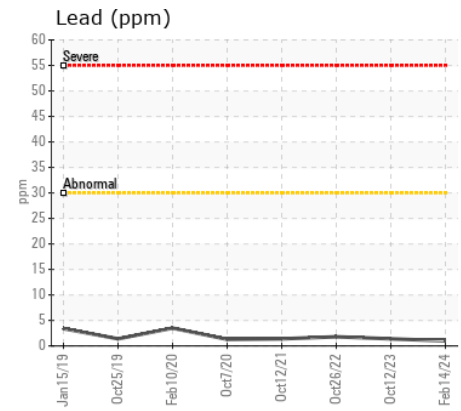
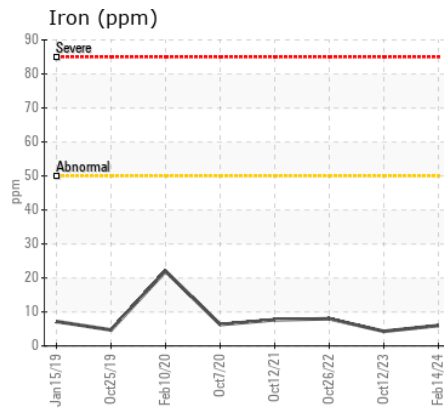
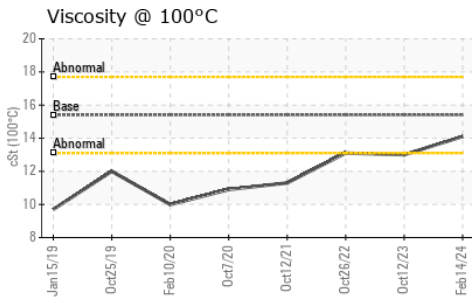
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>+100	23	9	15
Potassium	ppm	ASTM D5185(m)	>20	1	0	<1
Water		WC Method	>0.1	NEG	NEG	NEG
Soot %	%	ASTM D7844*		0	0	0
Nitration	Abs/cm	ASTM D7624*	>20	8.4	6.9	2.4
Sulfation	Abs/.1mm	ASTM D7415*	>30	17.3	15.7	9.7
Silt	scalar	Visual*	NONE	NONE	---	---
Debris	scalar	Visual*	NONE	NONE	---	---
Sand/Dirt	scalar	Visual*	NONE	NONE	---	---
Appearance	scalar	Visual*	NORML	NORML	---	---
Odor	scalar	Visual*	NORML	NORML	NORML	NORML
Emulsified Water	scalar	Visual*	>0.1	NEG	NEG	NEG

FLUID CONDITION

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

Sodium	ppm	ASTM D5185(m)	>192	3	1	2
Boron	ppm	ASTM D5185(m)		57	55	62
Barium	ppm	ASTM D5185(m)		0	<1	0
Molybdenum	ppm	ASTM D5185(m)		83	25	85
Manganese	ppm	ASTM D5185(m)		0	0	<1
Magnesium	ppm	ASTM D5185(m)		73	72	157
Calcium	ppm	ASTM D5185(m)	3780	2086	2094	1975
Phosphorus	ppm	ASTM D5185(m)	1370	995	986	1025
Zinc	ppm	ASTM D5185(m)	1500	1098	1124	1088
Sulfur	ppm	ASTM D5185(m)	3800	3221	2951	2967
Oxidation	Abs/.1mm	ASTM D7414*	>25	13.6	10.6	3.6
Visc @ 100°C	cSt	ASTM D7279(m)	15.4	14.1	13.0	13.1



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : PN0005777 **Received** : 21 Feb 2024
Lab Number : 02616835 **Tested** : 21 Feb 2024
Unique Number : 5733945 **Diagnosed** : 21 Feb 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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