



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
240HOWLAND AVE TORONTO CITY OF TORONTO 0E20201688

Component
Rear Natural Gas Engine
 Fluid
ESSO XD-3 EXTRA 15W40 (10 LTR)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		PN0006128	PN0005210	PN0004826
Sample Date		Client Info		07 May 2024	26 Sep 2023	18 May 2023
Machine Age	hrs	Client Info		38	41	27
Oil Age	hrs	Client Info		11	16	0
Filter Age	hrs	Client Info		11	16	0
Oil Changed		Client Info		Changed	Changed	Changed
Filter Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	ABNORMAL	ABNORMAL

WEAR

Metal levels are typical for a new component breaking in.

Iron	ppm	ASTM D5185(m)	>50	13	18	18
Chromium	ppm	ASTM D5185(m)	>4	0	0	0
Nickel	ppm	ASTM D5185(m)	>2	0	<1	0
Titanium	ppm	ASTM D5185(m)		0	0	<1
Silver	ppm	ASTM D5185(m)	>3	0	<1	0
Aluminum	ppm	ASTM D5185(m)	>9	<1	2	2
Lead	ppm	ASTM D5185(m)	>30	5	7	5
Copper	ppm	ASTM D5185(m)	>35	2	6	5
Tin	ppm	ASTM D5185(m)	>4	<1	<1	<1
Vanadium	ppm	ASTM D5185(m)		0	0	0
White Metal	scalar	Visual*	NONE	NONE	---	NONE
Yellow Metal	scalar	Visual*	NONE	NONE	---	NONE

CONTAMINATION

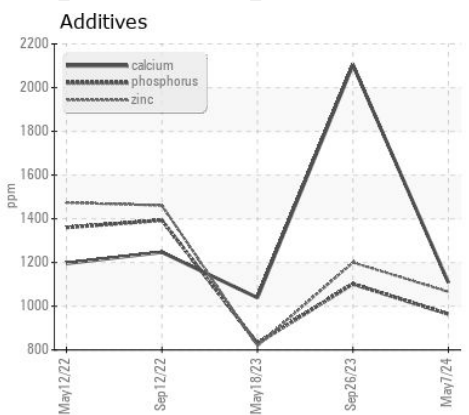
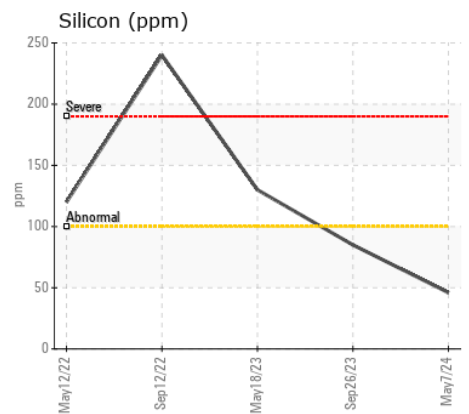
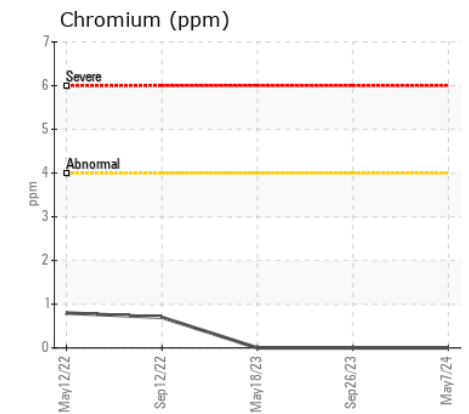
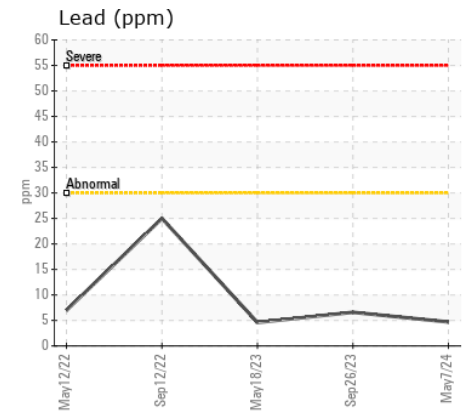
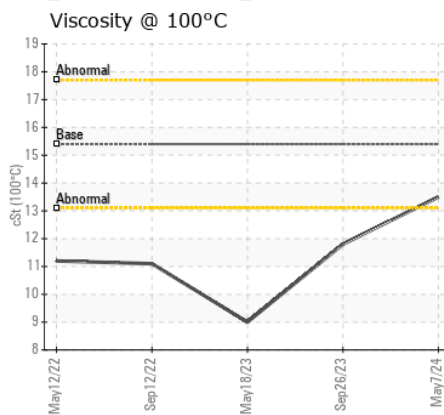
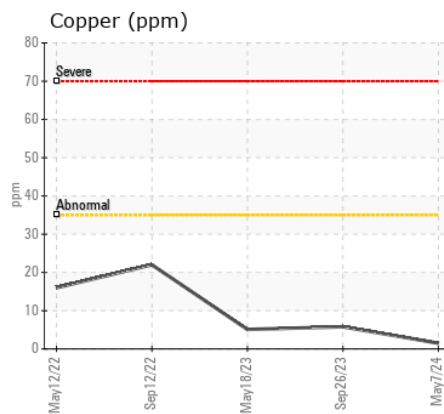
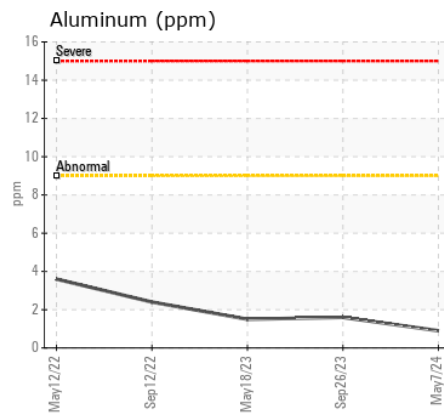
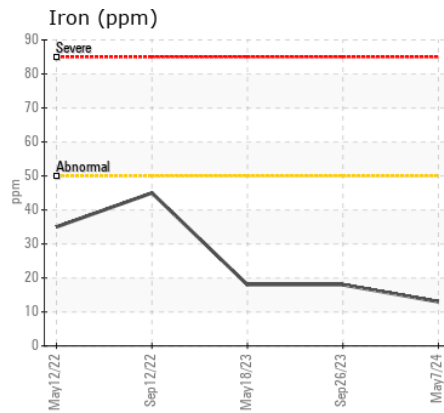
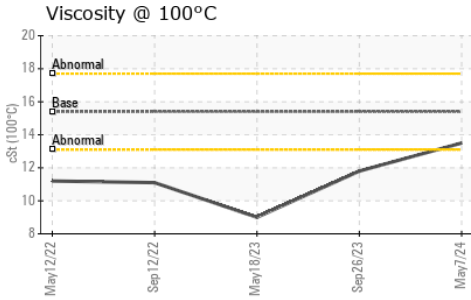
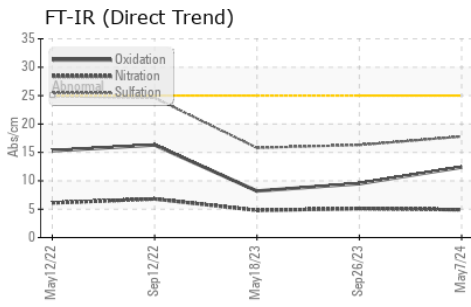
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>+100	46	85	130
Potassium	ppm	ASTM D5185(m)	>20	6	3	6
Water		WC Method	>0.1	NEG	NEG	NEG
Glycol		WC Method		---	---	---
Soot %	%	ASTM D7844*		0	0	0
Nitration	Abs/cm	ASTM D7624*	>20	4.9	5.1	4.8
Sulfation	Abs/.1mm	ASTM D7415*	>30	17.8	16.3	15.8
Silt	scalar	Visual*	NONE	NONE	---	NONE
Debris	scalar	Visual*	NONE	VLITE	---	NONE
Sand/Dirt	scalar	Visual*	NONE	NONE	---	NONE
Appearance	scalar	Visual*	NORML	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	3	5
Boron	ppm	ASTM D5185(m)		22	33	124
Barium	ppm	ASTM D5185(m)		0	1	<1
Molybdenum	ppm	ASTM D5185(m)		56	27	64
Manganese	ppm	ASTM D5185(m)		<1	<1	1
Magnesium	ppm	ASTM D5185(m)		852	168	554
Calcium	ppm	ASTM D5185(m)	3780	1108	2104	1039
Phosphorus	ppm	ASTM D5185(m)	1370	964	1102	830
Zinc	ppm	ASTM D5185(m)	1500	1066	1200	819
Sulfur	ppm	ASTM D5185(m)	3800	2748	4131	3612
Oxidation	Abs/.1mm	ASTM D7414*	>25	12.4	9.5	8.2
Visc @ 100°C	cSt	ASTM D7279(m)	15.4	13.5	▲ 11.8	▲ 9



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : PN0006128 **Received** : 13 May 2024
Lab Number : 02634933 **Tested** : 13 May 2024
Unique Number : 5776086 **Diagnosed** : 13 May 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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