



Area

[85313]

Machine Id

2222 EGLINTON AVE E TORONTO CITY OF TORONTO RG6125H037656

Component

Right Diesel Engine

Fluid

ESSO XD-3 EXTRA 15W40 (40 LTR)

RECOMMENDATION

We advise that you check the fuel injection system. The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		PN0006107	PN0004660	PN0002425
Sample Date		Client Info		23 Apr 2024	28 Apr 2023	29 Apr 2021
Machine Age	hrs	Client Info		299	290	258
Oil Age	hrs	Client Info		10	0	0
Filter Age	hrs	Client Info		10	0	0
Oil Changed		Client Info		Changed	Changed	Changed
Filter Changed		Client Info		Changed	Changed	Changed
Sample Status				SEVERE	SEVERE	SEVERE

WEAR

Metal levels are typical for a new component breaking in.

Iron	ppm	ASTM D5185(m)	>51	<1	1	2
Chromium	ppm	ASTM D5185(m)	>11	0	0	0
Nickel	ppm	ASTM D5185(m)	>5	0	<1	0
Titanium	ppm	ASTM D5185(m)		0	0	0
Silver	ppm	ASTM D5185(m)	>3	0	0	0
Aluminum	ppm	ASTM D5185(m)	>31	<1	2	2
Lead	ppm	ASTM D5185(m)	>26	0	<1	<1
Copper	ppm	ASTM D5185(m)	>26	<1	<1	<1
Tin	ppm	ASTM D5185(m)	>4	0	<1	<1
Vanadium	ppm	ASTM D5185(m)		0	0	<1

CONTAMINATION

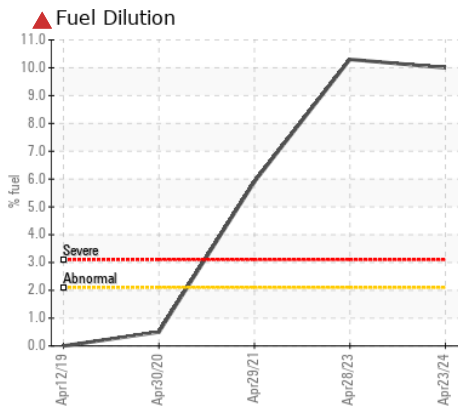
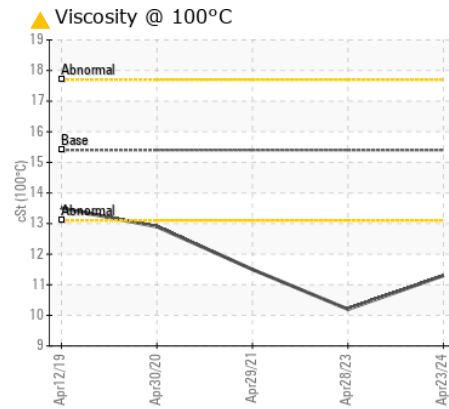
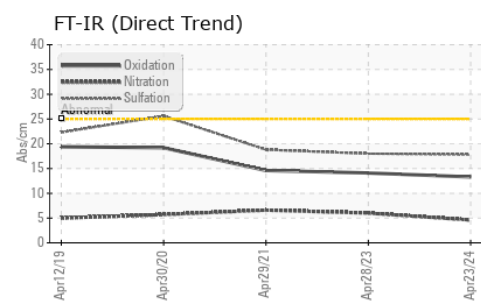
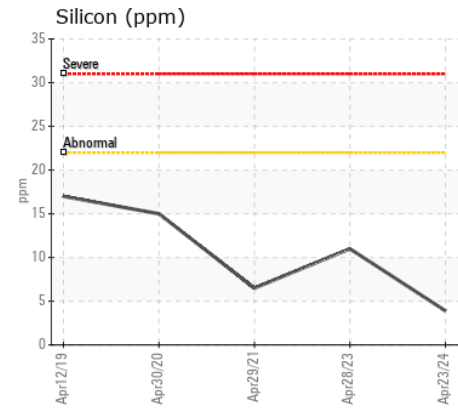
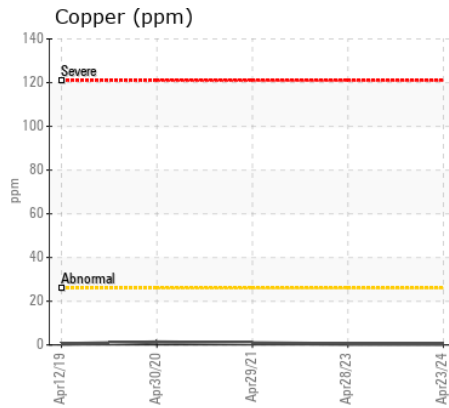
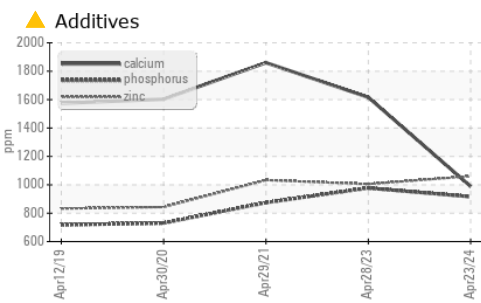
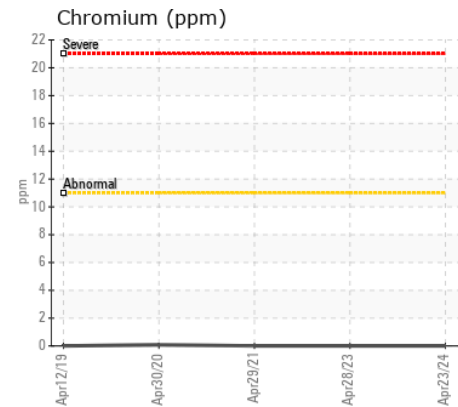
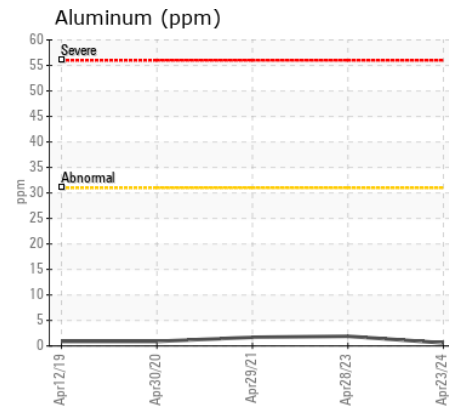
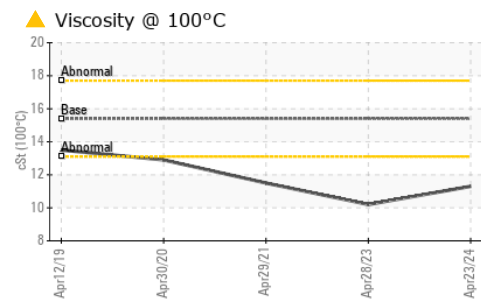
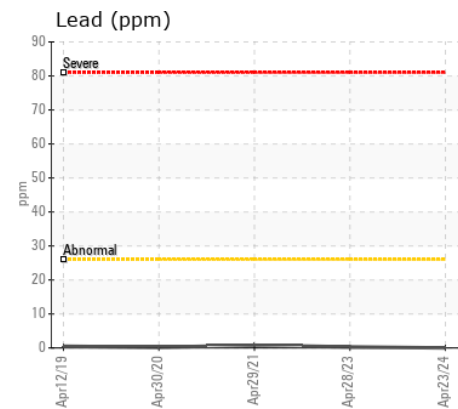
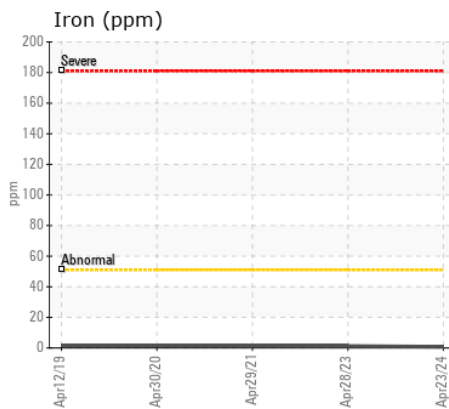
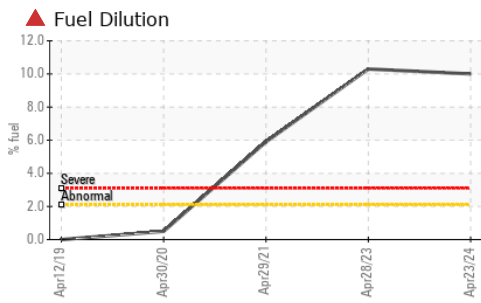
There is a high amount of fuel present in the oil. Tests confirm the presence of fuel in the oil.

Silicon	ppm	ASTM D5185(m)	>22	4	11	6
Potassium	ppm	ASTM D5185(m)	>20	<1	0	<1
Fuel	%	ASTM D7593*	>2.1	▲ 10	▲ 10.3	▲ 5.9
Water		WC Method	>0.21	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	ASTM D7844*	>3	0	0	0
Nitration	Abs/cm	ASTM D7624*	>20	4.6	6.0	6.6
Sulfation	Abs/.1mm	ASTM D7415*	>30	17.8	18.0	18.8
Emulsified Water	scalar	Visual*	>0.21	NEG	NEG	NEG

FLUID CONDITION

Calcium ppm levels are abnormally low. Visc @ 100°C is abnormally low. Fuel is present in the oil and is lowering the viscosity. The oil is no longer serviceable due to the presence of contaminants.

Sodium	ppm	ASTM D5185(m)	>192	<1	1	2
Boron	ppm	ASTM D5185(m)		5	43	64
Barium	ppm	ASTM D5185(m)		0	0	0
Molybdenum	ppm	ASTM D5185(m)		54	63	66
Manganese	ppm	ASTM D5185(m)		0	<1	<1
Magnesium	ppm	ASTM D5185(m)		846	392	153
Calcium	ppm	ASTM D5185(m)	3780	▲ 989	1616	1860
Phosphorus	ppm	ASTM D5185(m)	1370	916	977	874
Zinc	ppm	ASTM D5185(m)	1500	1060	1005	1033
Sulfur	ppm	ASTM D5185(m)	3800	2410	2674	2897
Oxidation	Abs/.1mm	ASTM D7414*	>25	13.3	14.1	14.6
Visc @ 100°C	cSt	ASTM D7279(m)	15.4	▲ 11.3	▲ 10.2	▲ 11.5



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : PN0006107 **Received** : 26 Apr 2024
Lab Number : 02631495 **Tested** : 29 Apr 2024
Unique Number : 5772648 **Diagnosed** : 29 Apr 2024 - Wes Davis
Test Package : MOB 1 (Additional Tests: PercentFuel)

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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.