



WEAR	NORMAL
CONTAMINATION	SEVERE
FLUID CONDITION	SEVERE

Area
[83183]
 Machine Id
30 WELLINGTON ST. W TORONTO, UNIT 7 QUADREAL 36J291
 Component
Front Diesel Engine
 Fluid
ESSO XD-3 EXTRA 15W40 (150 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		PN0005522	PN0003939	PN0000980
Sample Date		Client Info		12 Dec 2023	14 Sep 2022	13 May 2020
Machine Age	hrs	Client Info		558	542	592
Oil Age	hrs	Client Info		0	0	15
Filter Age	hrs	Client Info		0	0	15
Oil Changed		Client Info		Changed	Not Chngd	Not Chngd
Filter Changed		Client Info		Changed	Changed	Changed
Sample Status				SEVERE	ABNORMAL	MARGINAL

WEAR

Metal levels are typical for a new component breaking in.

Iron	ppm	ASTM D5185(m)	>100	3	3	1
Chromium	ppm	ASTM D5185(m)	>20	0	0	0
Nickel	ppm	ASTM D5185(m)	>2	0	0	<1
Titanium	ppm	ASTM D5185(m)	>2	0	0	<1
Silver	ppm	ASTM D5185(m)	>2	0	0	0
Aluminum	ppm	ASTM D5185(m)	>25	2	1	<1
Lead	ppm	ASTM D5185(m)	>40	1	1	<1
Copper	ppm	ASTM D5185(m)	>330	8	6	3
Tin	ppm	ASTM D5185(m)	>15	<1	<1	0
Vanadium	ppm	ASTM D5185(m)		0	0	0
White Metal	scalar	Visual*	NONE	VLITE	---	---
Yellow Metal	scalar	Visual*	NONE	NONE	---	---

CONTAMINATION

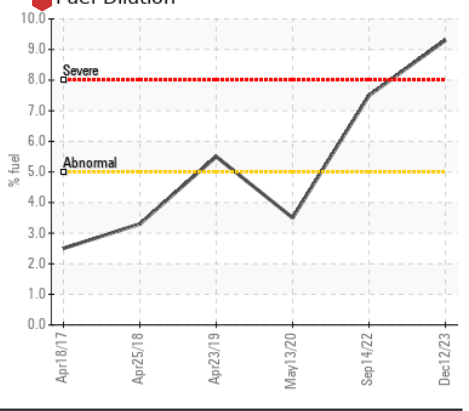
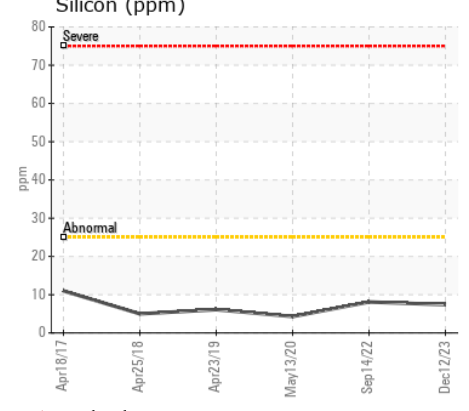
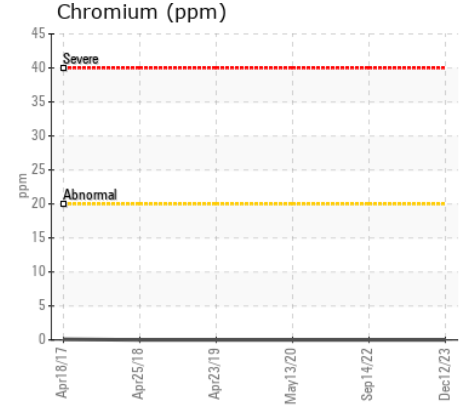
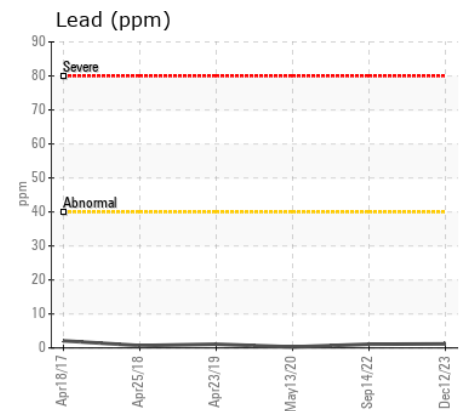
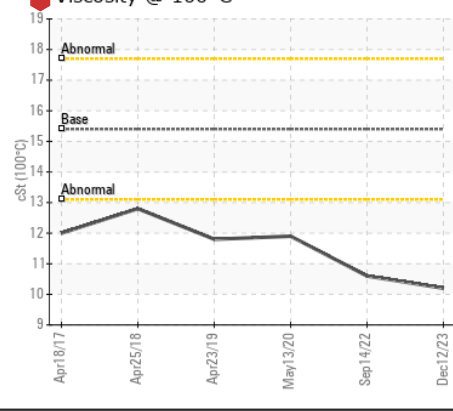
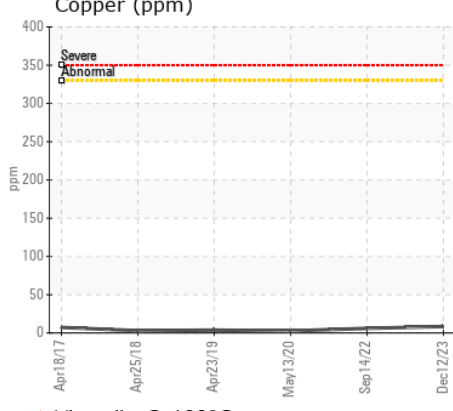
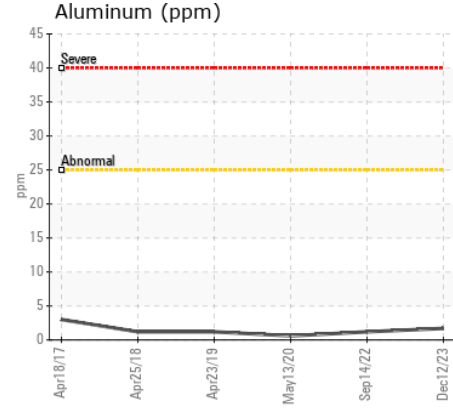
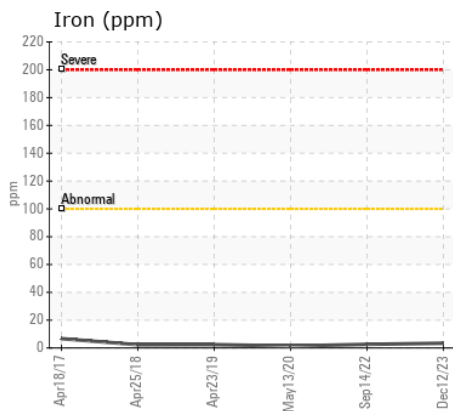
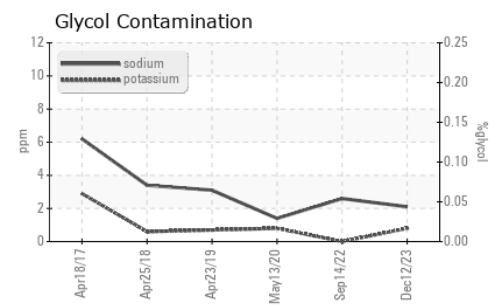
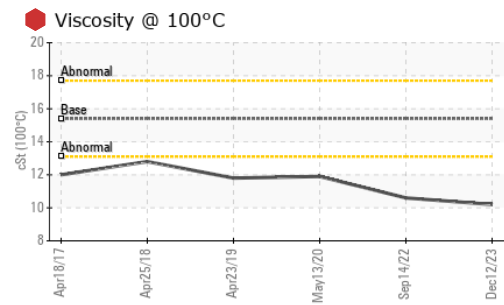
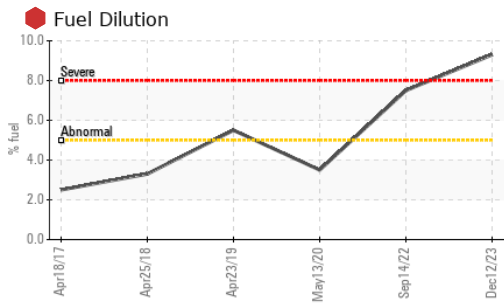
There is a high amount of fuel present in the oil. Tests confirm the presence of fuel in the oil.

Silicon	ppm	ASTM D5185(m)	>25	7	8	4
Potassium	ppm	ASTM D5185(m)	>20	<1	0	<1
Fuel	%	ASTM D7593*	>5	9.3	7.5	3.5
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol	%	ASTM D7922*		NEG	NEG	NEG
Soot %	%	ASTM D7844*	>3	0	0	0
Nitration	Abs/cm	ASTM D7624*	>20	6.1	6.1	5.8
Sulfation	Abs/.1mm	ASTM D7415*	>30	20.1	20.6	24.8
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	---
Emulsified Water	scalar	Visual*	>0.2	NEG	NEG	NEG

FLUID CONDITION

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	2	3	1
Boron	ppm	ASTM D5185(m)		44	49	54
Barium	ppm	ASTM D5185(m)		0	0	<1
Molybdenum	ppm	ASTM D5185(m)		36	38	39
Manganese	ppm	ASTM D5185(m)		0	<1	<1
Magnesium	ppm	ASTM D5185(m)		442	472	514
Calcium	ppm	ASTM D5185(m)	3780	1521	1529	1494
Phosphorus	ppm	ASTM D5185(m)	1370	735	781	734
Zinc	ppm	ASTM D5185(m)	1500	811	821	845
Sulfur	ppm	ASTM D5185(m)	3800	2129	2118	2141
Oxidation	Abs/.1mm	ASTM D7414*	>25	18.7	19.0	17.5
Visc @ 100°C	cSt	ASTM D7279(m)	15.4	10.2	10.6	11.9



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : PN0005522 **Received** : 12 Jan 2024
Lab Number : 02608514 **Diagnosed** : 15 Jan 2024
Unique Number : 5709600 **Diagnostician** : Kevin Marson
Test Package : MOB 1 (Additional Tests: Glycol, PercentFuel, 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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