



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
1 EAGLE RD ETOBICOKE 443201 BELL CANADA 12VF12235

Component
Right Diesel Engine

Fluid
ESSO XD-3 EXTRA SAE 40 (30 LTR)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		PN0005776	PN0005297	PN0003888
Sample Date		Client Info		13 Feb 2024	24 Oct 2023	25 Jul 2022
Machine Age	mls	Client Info		783	781	750
Oil Age	mls	Client Info		3	30	0
Filter Age	mls	Client Info		3	30	0
Oil Changed		Client Info		Changed	Changed	Changed
Filter Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	MARGINAL

WEAR

Metal levels are typical for a new component breaking in.

Iron	ppm	ASTM D5185(m)	>125	4	10	12
Chromium	ppm	ASTM D5185(m)	>5	0	<1	<1
Nickel	ppm	ASTM D5185(m)	>5	<1	0	0
Titanium	ppm	ASTM D5185(m)	>2	0	0	0
Silver	ppm	ASTM D5185(m)	>2	0	<1	0
Aluminum	ppm	ASTM D5185(m)	>10	<1	<1	<1
Lead	ppm	ASTM D5185(m)	>12	<1	<1	1
Copper	ppm	ASTM D5185(m)	>45	1	4	6
Tin	ppm	ASTM D5185(m)	>20	<1	2	2
Vanadium	ppm	ASTM D5185(m)		0	0	0
White Metal	scalar	Visual*	NONE	VLITE	NONE	---
Yellow Metal	scalar	Visual*	NONE	NONE	NONE	---

CONTAMINATION

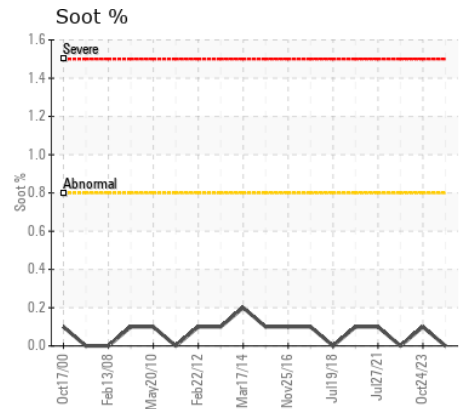
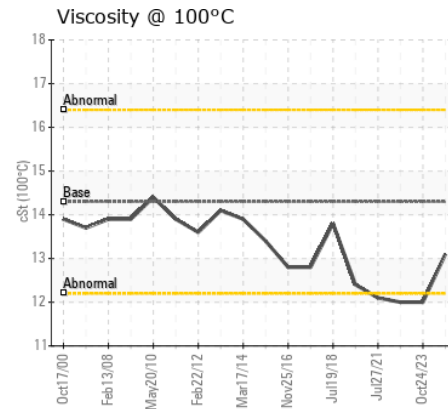
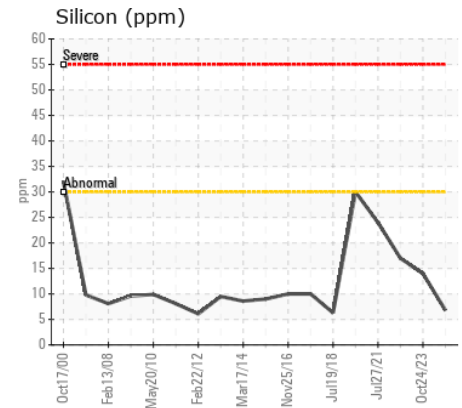
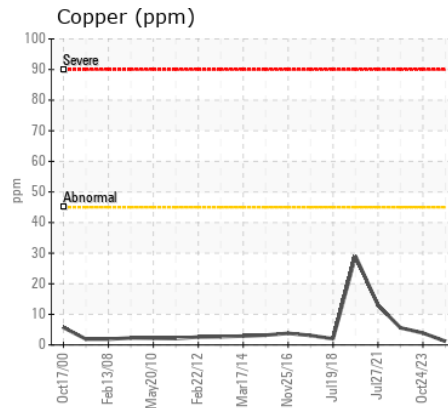
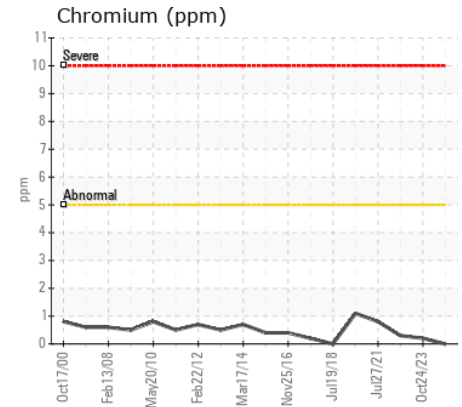
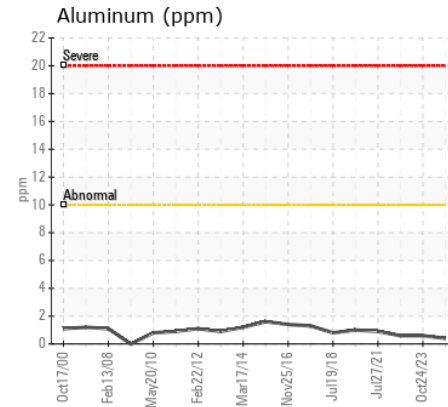
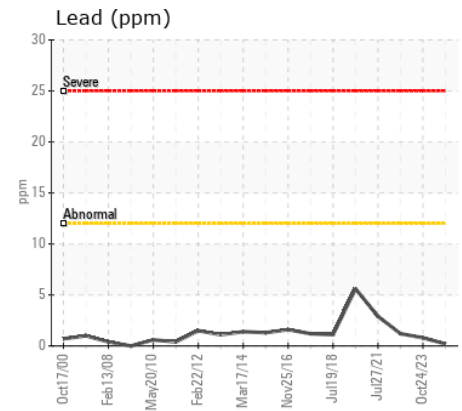
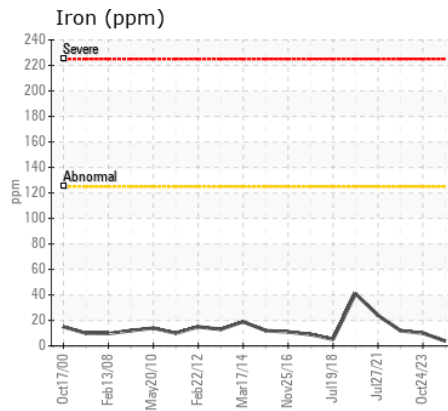
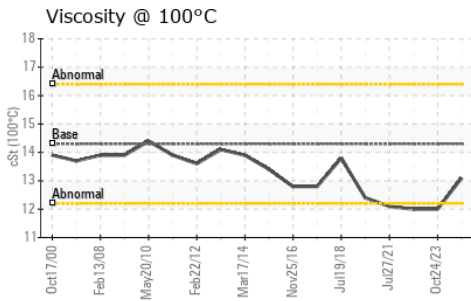
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>30	7	14	17
Potassium	ppm	ASTM D5185(m)	>20	<1	<1	<1
Fuel		WC Method	>3.0	<1.0	<1.0	▲ 2.5
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	ASTM D7844*	>0.8	0	0.1	0
Nitration	Abs/cm	ASTM D7624*	>20	3.3	4.1	2.2
Sulfation	Abs/.1mm	ASTM D7415*	>30	12.9	13.6	8.2
Silt	scalar	Visual*	NONE	NONE	NONE	---
Debris	scalar	Visual*	NONE	NONE	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*	>0.2	NEG	NEG	NEG

FLUID CONDITION

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

Sodium	ppm	ASTM D5185(m)		<1	5	7
Boron	ppm	ASTM D5185(m)		4	17	12
Barium	ppm	ASTM D5185(m)		0	<1	0
Molybdenum	ppm	ASTM D5185(m)		2	9	11
Manganese	ppm	ASTM D5185(m)		0	0	<1
Magnesium	ppm	ASTM D5185(m)		701	54	29
Calcium	ppm	ASTM D5185(m)	2550	1682	3743	3582
Phosphorus	ppm	ASTM D5185(m)	1000	1005	730	684
Zinc	ppm	ASTM D5185(m)	1120	1087	817	763
Sulfur	ppm	ASTM D5185(m)		2729	2574	3040
Oxidation	Abs/.1mm	ASTM D7414*	>25	5.6	5.1	3.5
Visc @ 100°C	cSt	ASTM D7279(m)	14.3	13.1	12.0	12.0



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : PN0005776 **Received** : 15 Feb 2024
Lab Number : 02615916 **Tested** : 15 Feb 2024
Unique Number : 5733026 **Diagnosed** : 15 Feb 2024 - Kevin Marson
Test Package : MOB 1 (Additional Tests: Visual)

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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.