



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Area

BELL CANADA [86948]

Machine Id

39 Chapel St Cobourg 8VF048515 8VF048515

Component

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		PN0006274	PN0000889	PN868450
Sample Date		Client Info		12 Jun 2024	10 Mar 2020	08 Mar 2012
Machine Age	hrs	Client Info		439	343	158
Oil Age	hrs	Client Info		425	0	36
Filter Age	hrs	Client Info		425	0	36
Oil Changed		Client Info		Changed	Not Changd	Changed
Filter Changed		Client Info		Not Changed	Not Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL

WEAR

Metal levels are typical for a new component breaking in.

Iron	ppm	ASTM D5185(m)	>200	2	2	5
Chromium	ppm	ASTM D5185(m)	>20	0	<1	<1
Nickel	ppm	ASTM D5185(m)	>2	<1	0	0
Titanium	ppm	ASTM D5185(m)	>2	0	<1	0
Silver	ppm	ASTM D5185(m)	>2	0	0	0
Aluminum	ppm	ASTM D5185(m)	>30	<1	<1	1
Lead	ppm	ASTM D5185(m)	>30	2	2	2
Copper	ppm	ASTM D5185(m)	>30	1	1	1
Tin	ppm	ASTM D5185(m)	>15	0	<1	0
Vanadium	ppm	ASTM D5185(m)		0	0	0
White Metal	scalar	Visual*	NONE	NONE	---	---
Yellow Metal	scalar	Visual*	NONE	NONE	---	---

CONTAMINATION

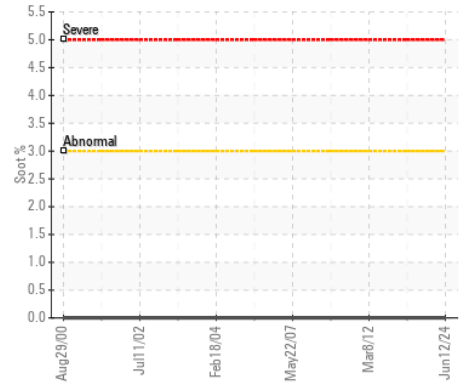
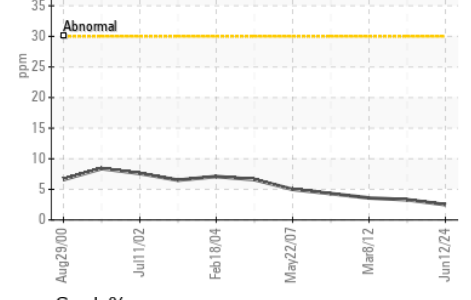
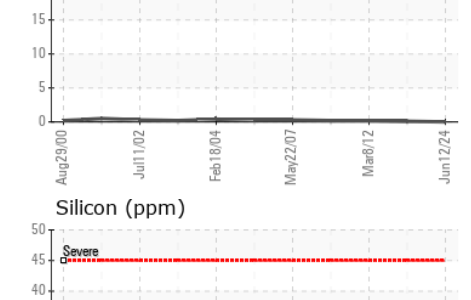
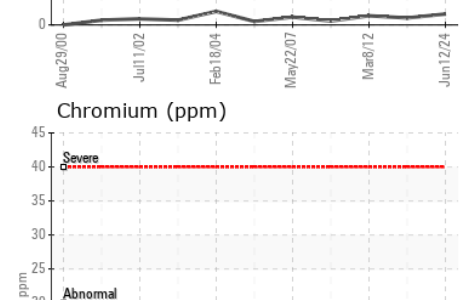
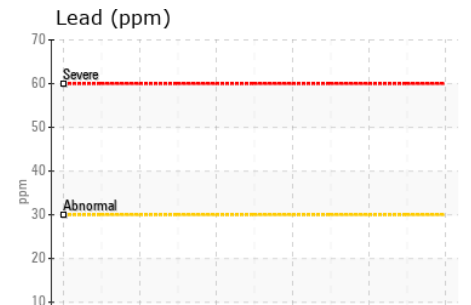
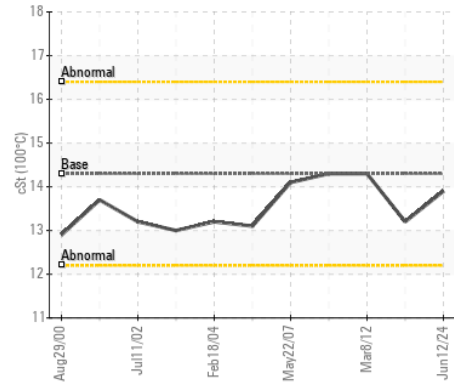
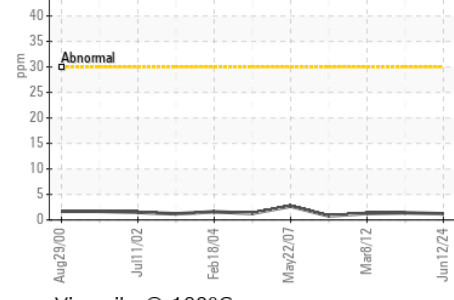
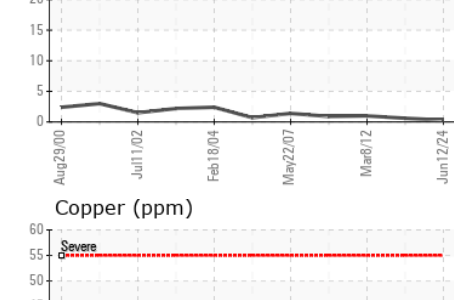
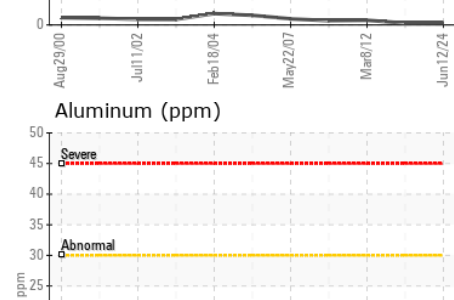
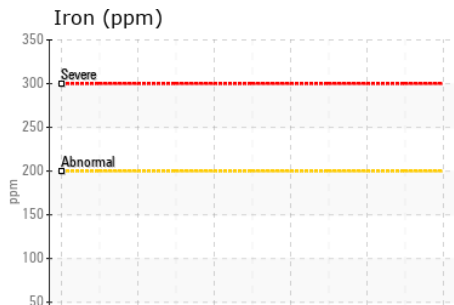
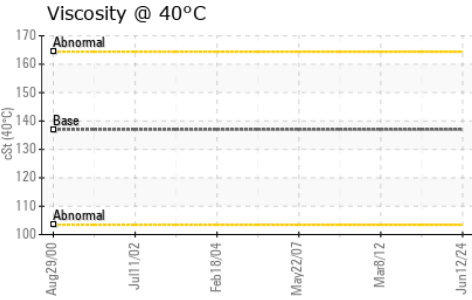
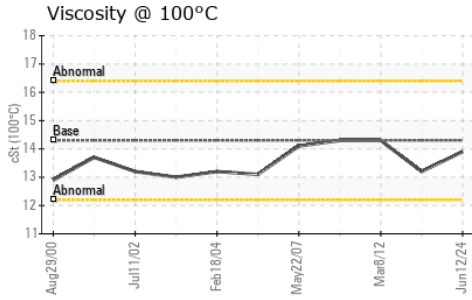
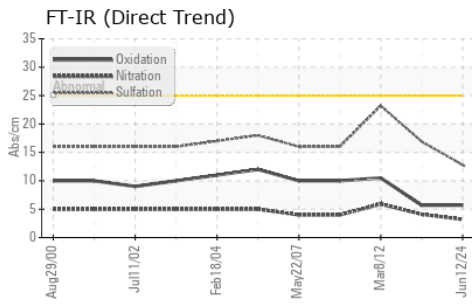
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>30	2	3	4
Potassium	ppm	ASTM D5185(m)	>20	<1	<1	0
Fuel		WC Method	>3.0	<1.0	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	ASTM D7844*	>3	0	0	0
Nitration	Abs/cm	ASTM D7624*	>20	3.2	4.1	5.9
Sulfation	Abs/.1mm	ASTM D7415*	>30	12.8	16.9	23.2
Silt	scalar	Visual*	NONE	NONE	---	---
Debris	scalar	Visual*	NONE	VLITE	---	---
Sand/Dirt	scalar	Visual*	NONE	NONE	---	---
Appearance	scalar	Visual*	NORML	NORML	---	---
Odor	scalar	Visual*	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)		3	51	4
Boron	ppm	ASTM D5185(m)		3	22	13
Barium	ppm	ASTM D5185(m)		0	<1	0
Molybdenum	ppm	ASTM D5185(m)		2	26	10
Manganese	ppm	ASTM D5185(m)		0	<1	0
Magnesium	ppm	ASTM D5185(m)		817	43	34
Calcium	ppm	ASTM D5185(m)	2550	1359	2187	2856
Phosphorus	ppm	ASTM D5185(m)	1000	1054	851	979
Zinc	ppm	ASTM D5185(m)	1120	1188	947	1168
Sulfur	ppm	ASTM D5185(m)		3196	2323	5582
Oxidation	Abs/.1mm	ASTM D7414*	>25	5.7	5.7	10.5
Visc @ 40°C	cSt	ASTM D7279(m)	137	127	---	---
Visc @ 100°C	cSt	ASTM D7279(m)	14.3	13.9	13.2	14.3
Viscosity Index (VI)	Scale	ASTM D2270*	102	106	---	---



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : PN0006274 **Received** : 18 Jun 2024
Lab Number : 02642541 **Tested** : 18 Jun 2024
Unique Number : 5800080 **Diagnosed** : 18 Jun 2024 - Wes Davis
Test Package : MOB 1 (Additional Tests: KV40, VI, 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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