



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Area
[85520]
 Machine Id
1775 WHITNEY ST LONDON BELL CANADA BELL CANADA

Component
Right Diesel Engine
 Fluid
ESSO XD-3 EXTRA SAE 40 (28 LTR)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		PN0005975	PN0004575	PN0003112
Sample Date		Client Info		22 Apr 2024	14 Feb 2023	08 Feb 2022
Machine Age	hrs	Client Info		902	887	861
Oil Age	hrs	Client Info		0	0	0
Filter Age	hrs	Client Info		0	0	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)	>200	7	9	9
Chromium	ppm	ASTM D5185(m)	>20	0	<1	<1
Nickel	ppm	ASTM D5185(m)	>2	0	<1	<1
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	<1	1	1
Copper	ppm	ASTM D5185(m)	>30	1	1	1
Tin	ppm	ASTM D5185(m)	>15	<1	<1	1
Vanadium	ppm	ASTM D5185(m)		0	0	0

CONTAMINATION

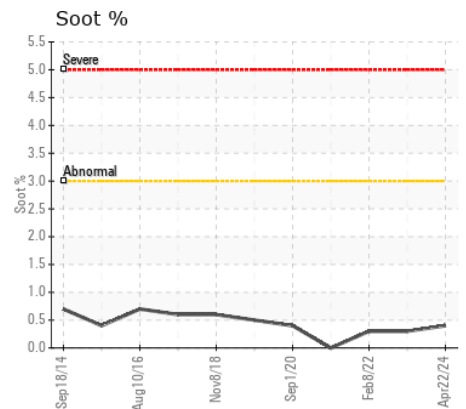
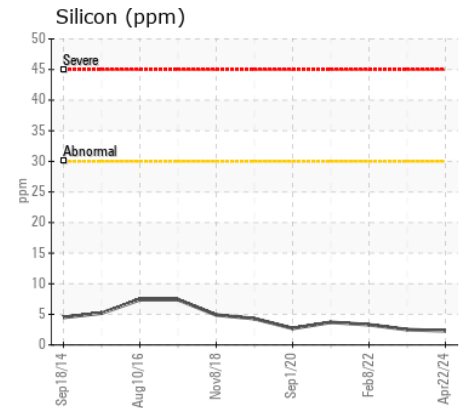
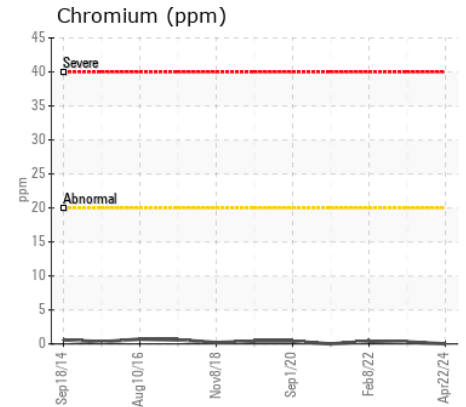
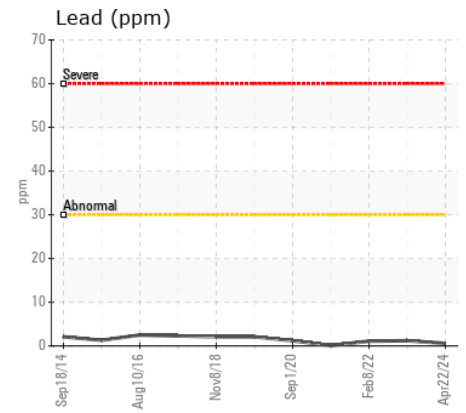
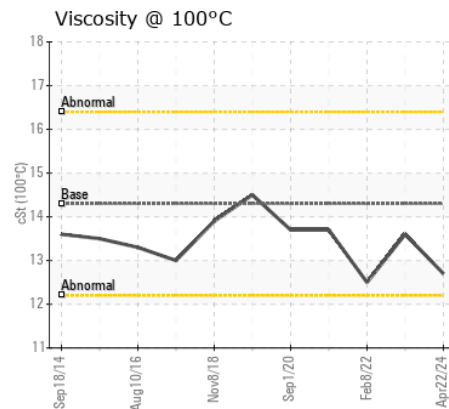
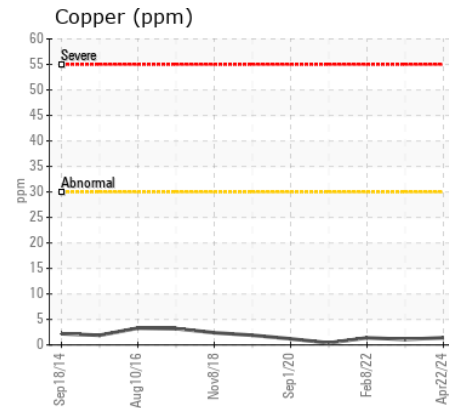
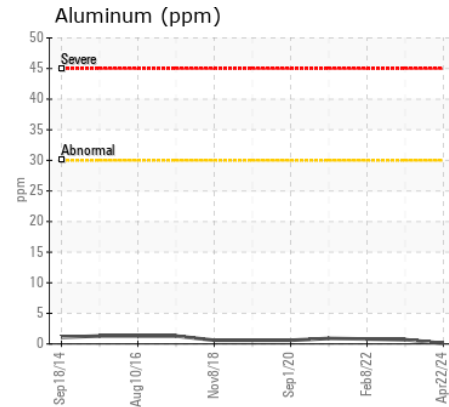
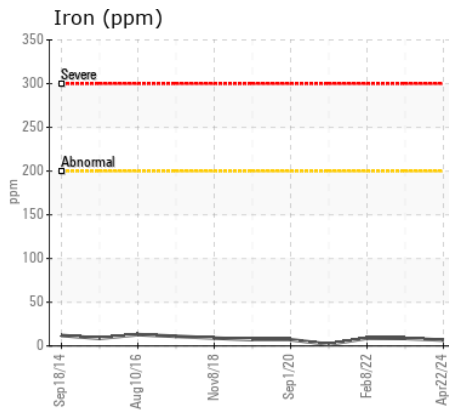
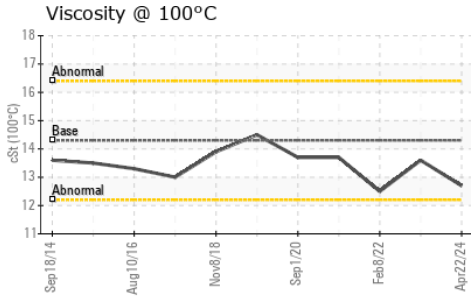
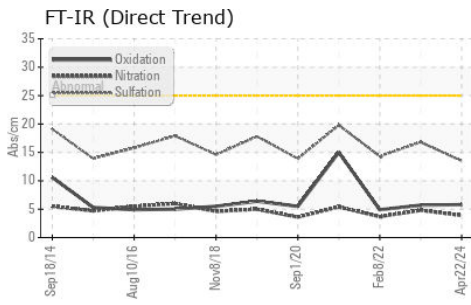
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>30	2	2	3
Potassium	ppm	ASTM D5185(m)	>20	<1	<1	<1
Fuel		WC Method	>3.0	<1.0	<1.0	▲ 2
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	ASTM D7844*	>3	0.4	0.3	0.3
Nitration	Abs/cm	ASTM D7624*	>20	3.9	4.8	3.7
Sulfation	Abs/.1mm	ASTM D7415*	>30	13.5	16.8	14.3
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)		4	5	12
Boron	ppm	ASTM D5185(m)		2	4	17
Barium	ppm	ASTM D5185(m)		0	0	0
Molybdenum	ppm	ASTM D5185(m)		<1	3	17
Manganese	ppm	ASTM D5185(m)		0	<1	<1
Magnesium	ppm	ASTM D5185(m)		849	815	39
Calcium	ppm	ASTM D5185(m)	2550	1075	1254	3054
Phosphorus	ppm	ASTM D5185(m)	1000	984	1073	788
Zinc	ppm	ASTM D5185(m)	1120	1139	1137	838
Sulfur	ppm	ASTM D5185(m)		4190	7439	2351
Oxidation	Abs/.1mm	ASTM D7414*	>25	5.8	5.7	4.9
Visc @ 100°C	cSt	ASTM D7279(m)	14.3	12.7	13.6	12.5



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : PN0005975
Lab Number : 02631489
Unique Number : 5772642
Test Package : MOB 1

Received : 26 Apr 2024
Tested : 26 Apr 2024
Diagnosed : 26 Apr 2024 - Wes Davis

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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.