



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Area

[85519]

Machine Id

577 CRANBROOK RD LONDON BELL CANADA 2241597

Component

Rear Natural Gas Engine

Fluid

ESSO XD-3 EXTRA 15W40 (5 LTR)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		PN0005965	PN0003250	PN0001927
Sample Date		Client Info		24 Apr 2024	07 Feb 2022	11 Nov 2020
Machine Age	hrs	Client Info		169	133	111
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	NORMAL

WEAR

Metal levels are typical for a new component breaking in.

Iron	ppm	ASTM D5185(m)	>50	5	12	26
Chromium	ppm	ASTM D5185(m)	>4	0	0	<1
Nickel	ppm	ASTM D5185(m)	>2	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)	>9	2	5	9
Lead	ppm	ASTM D5185(m)	>30	0	<1	<1
Copper	ppm	ASTM D5185(m)	>35	2	5	14
Tin	ppm	ASTM D5185(m)	>4	0	1	2
Vanadium	ppm	ASTM D5185(m)		0	0	<1

CONTAMINATION

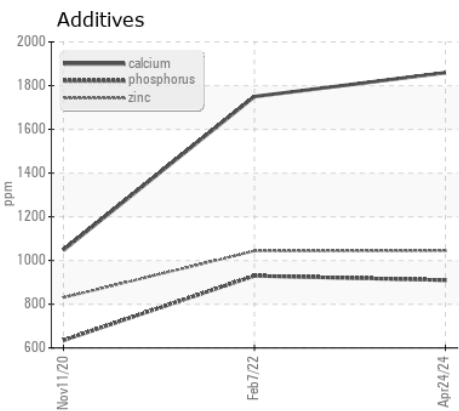
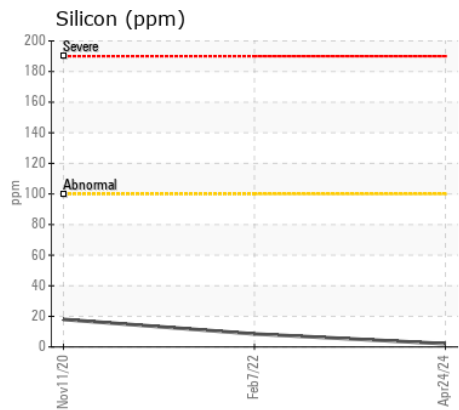
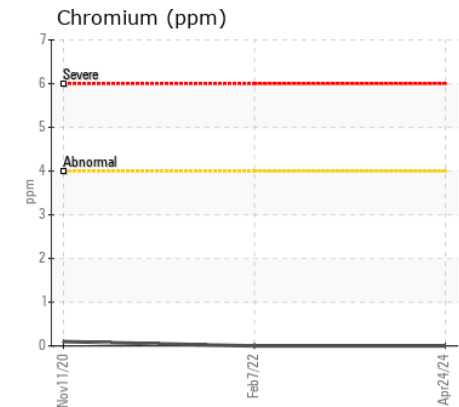
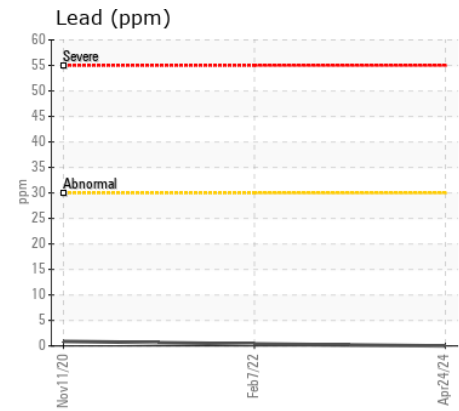
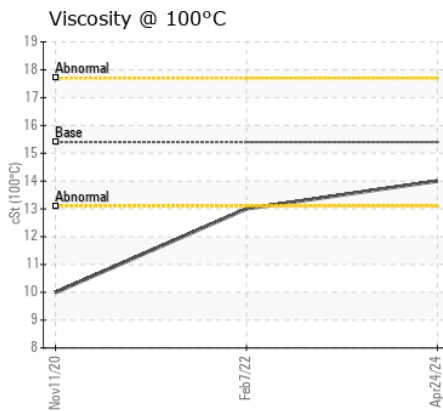
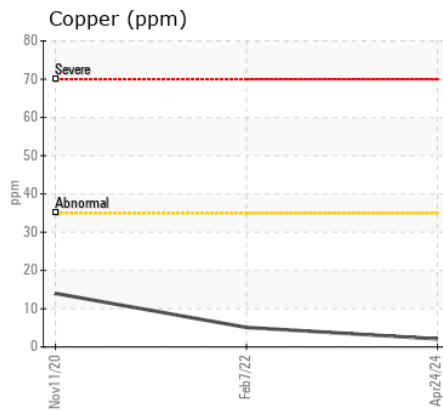
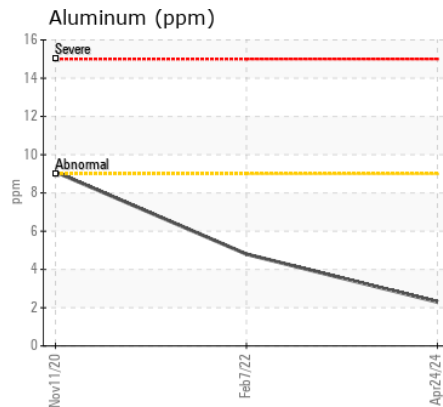
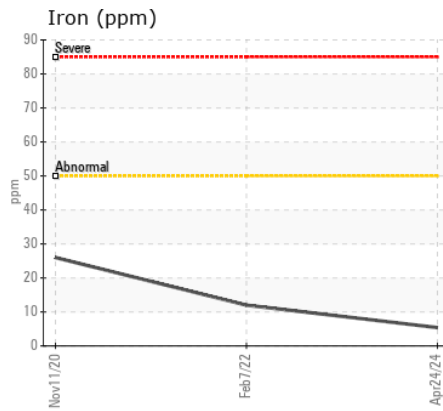
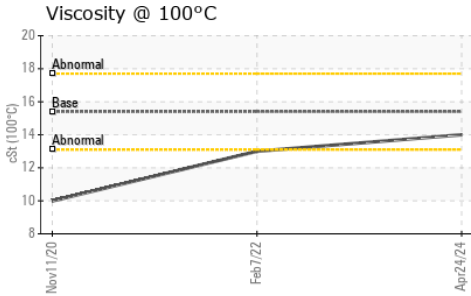
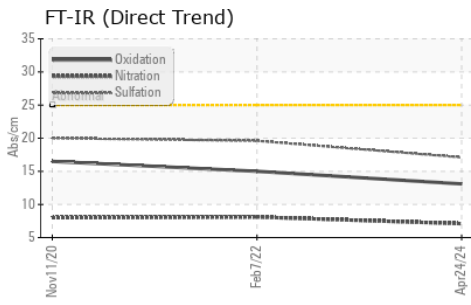
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>+100	2	8	18
Potassium	ppm	ASTM D5185(m)	>20	<1	1	2
Water		WC Method	>0.1	NEG	NEG	NEG
Soot %	%	ASTM D7844*		0	0	0
Nitration	Abs/cm	ASTM D7624*	>20	7.1	8.1	8.0
Sulfation	Abs/.1mm	ASTM D7415*	>30	17.1	19.6	20.0
Emulsified Water	scalar	Visual*	>0.1	NEG	NEG	NEG

FLUID CONDITION

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

Sodium	ppm	ASTM D5185(m)	>192	2	3	4
Boron	ppm	ASTM D5185(m)		59	74	65
Barium	ppm	ASTM D5185(m)		0	0	<1
Molybdenum	ppm	ASTM D5185(m)		44	83	70
Manganese	ppm	ASTM D5185(m)		0	<1	1
Magnesium	ppm	ASTM D5185(m)		220	412	1267
Calcium	ppm	ASTM D5185(m)	3780	1859	1750	1047
Phosphorus	ppm	ASTM D5185(m)	1370	910	930	635
Zinc	ppm	ASTM D5185(m)	1500	1045	1043	830
Sulfur	ppm	ASTM D5185(m)	3800	2909	2877	2188
Oxidation	Abs/.1mm	ASTM D7414*	>25	13.1	15.0	16.5
Visc @ 100°C	cSt	ASTM D7279(m)	15.4	14.0	13.0	9.99



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : PN0005965 **Received** : 26 Apr 2024
Lab Number : 02631579 **Tested** : 26 Apr 2024
Unique Number : 5772732 **Diagnosed** : 26 Apr 2024 - Wes Davis
Test Package : MOB 1

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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