



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Area
[85525]
 Machine Id
479 CLARENCE ST LONDON BELL CANADA UNIT 2

Component
Rear Diesel Engine
 Fluid
ESSO XD-3 EXTRA SAE 40 (36 LTR)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		PN0005973	PN0001943	PN0000580
Sample Date		Client Info		23 Apr 2024	14 Dec 2020	27 Nov 2019
Machine Age	hrs	Client Info		817	795	788
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)	>200	1	2	3
Chromium	ppm	ASTM D5185(m)	>20	0	<1	<1
Nickel	ppm	ASTM D5185(m)	>2	0	<1	0
Titanium	ppm	ASTM D5185(m)	>2	0	0	<1
Silver	ppm	ASTM D5185(m)	>2	0	<1	<1
Aluminum	ppm	ASTM D5185(m)	>30	0	<1	<1
Lead	ppm	ASTM D5185(m)	>30	<1	<1	3
Copper	ppm	ASTM D5185(m)	>30	1	1	3
Tin	ppm	ASTM D5185(m)	>15	0	<1	<1
Vanadium	ppm	ASTM D5185(m)		0	0	0

CONTAMINATION

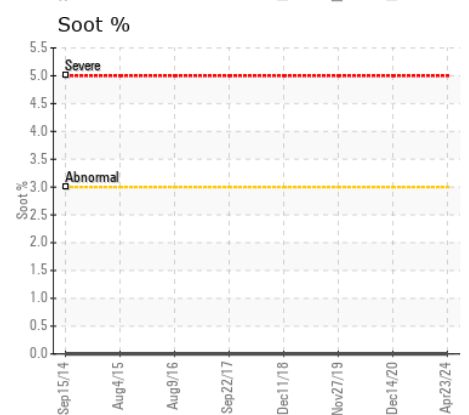
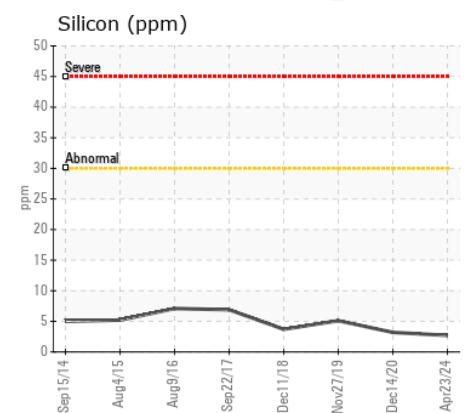
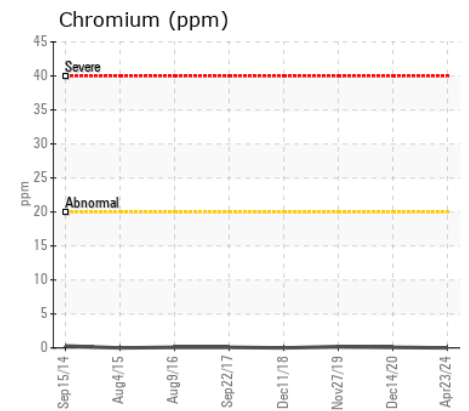
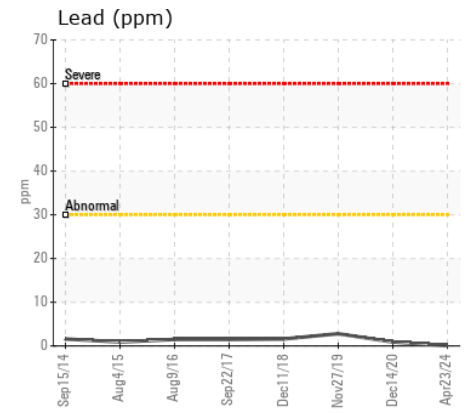
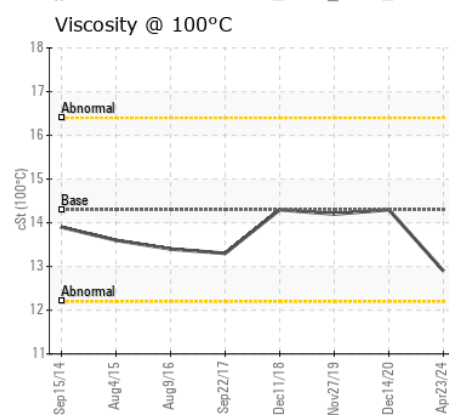
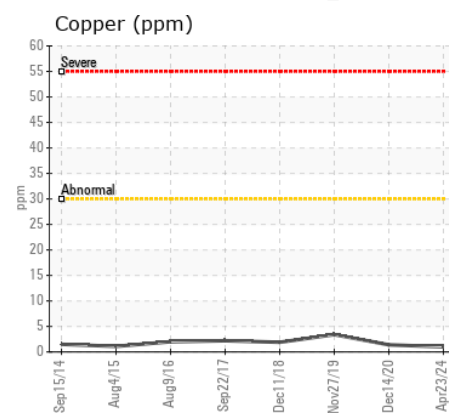
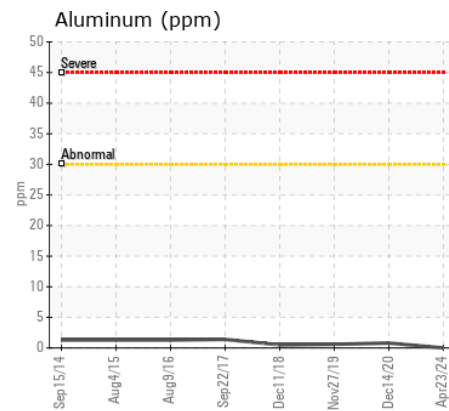
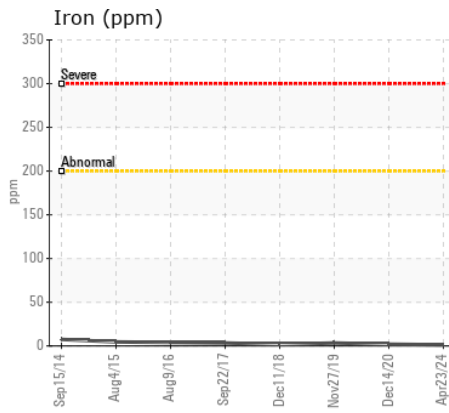
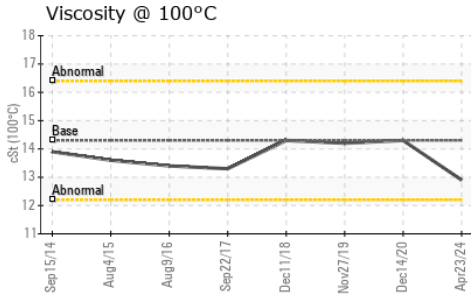
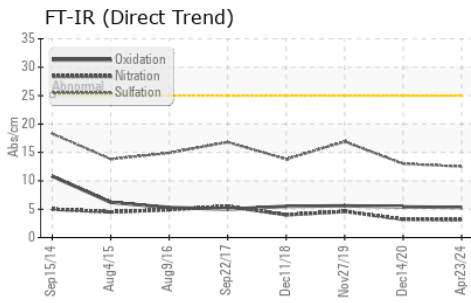
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>30	3	3	5
Potassium	ppm	ASTM D5185(m)	>20	<1	1	<1
Fuel		WC Method	>3.0	<1.0	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	0.0	0.0
Soot %	%	ASTM D7844*	>3	0	0	0
Nitration	Abs/cm	ASTM D7624*	>20	3.1	3.2	4.6
Sulfation	Abs/.1mm	ASTM D7415*	>30	12.5	13.0	16.9
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	42	188
Boron	ppm	ASTM D5185(m)		5	12	6
Barium	ppm	ASTM D5185(m)		0	0	0
Molybdenum	ppm	ASTM D5185(m)		3	10	4
Manganese	ppm	ASTM D5185(m)		0	<1	<1
Magnesium	ppm	ASTM D5185(m)		600	69	43
Calcium	ppm	ASTM D5185(m)	2550	1809	2068	2299
Phosphorus	ppm	ASTM D5185(m)	1000	903	806	872
Zinc	ppm	ASTM D5185(m)	1120	1028	955	998
Sulfur	ppm	ASTM D5185(m)		2423	2549	3652
Oxidation	Abs/.1mm	ASTM D7414*	>25	5.3	5.4	5.6
Visc @ 100°C	cSt	ASTM D7279(m)	14.3	12.9	14.3	14.2



ISO 17025:2017
Accredited
Laboratory

Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : PN0005973
Lab Number : 02631485
Unique Number : 5772638
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.