



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Area
[84439]
 Machine Id
228 BROCK ST LOC 511002 BELL CANADA 95010600856
 Component
Rear Diesel Engine
 Fluid
ESSO XD-3 EXTRA 15W40 (60 LTR)

RECOMMENDATION

No corrective action is recommended at this time. Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		PN0005771	PN0003970	PN0002871
Sample Date		Client Info		14 Feb 2024	02 Sep 2022	10 Sep 2021
Machine Age	hrs	Client Info		223	194	137
Oil Age	hrs	Client Info		30	0	21
Filter Age	hrs	Client Info		30	0	21
Oil Changed		Client Info		Not Chngd	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)	>100	2	5	4
Chromium	ppm	ASTM D5185(m)	>20	0	0	<1
Nickel	ppm	ASTM D5185(m)	>4	<1	0	<1
Titanium	ppm	ASTM D5185(m)		0	<1	<1
Silver	ppm	ASTM D5185(m)	>3	0	0	0
Aluminum	ppm	ASTM D5185(m)	>20	2	2	2
Lead	ppm	ASTM D5185(m)	>40	2	1	1
Copper	ppm	ASTM D5185(m)	>330	2	7	6
Tin	ppm	ASTM D5185(m)	>15	0	<1	<1
Vanadium	ppm	ASTM D5185(m)		0	0	0
White Metal	scalar	Visual*	NONE	NONE	---	VLITE
Yellow Metal	scalar	Visual*	NONE	NONE	---	NONE

CONTAMINATION

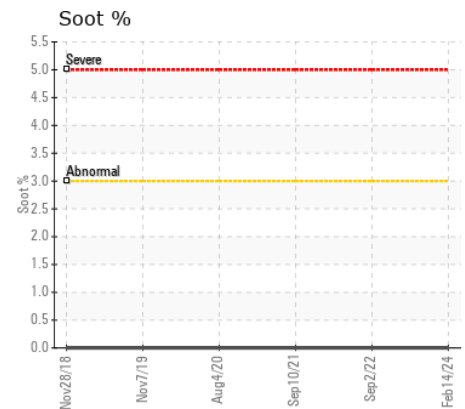
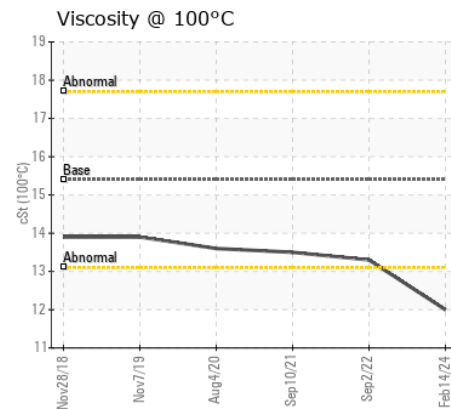
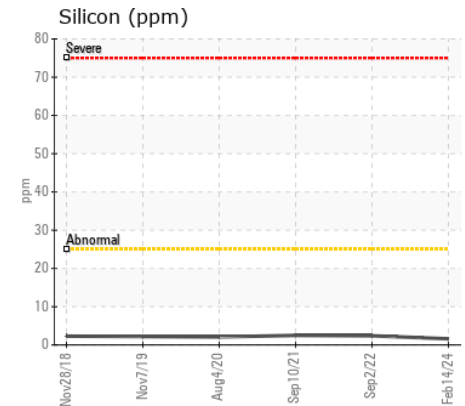
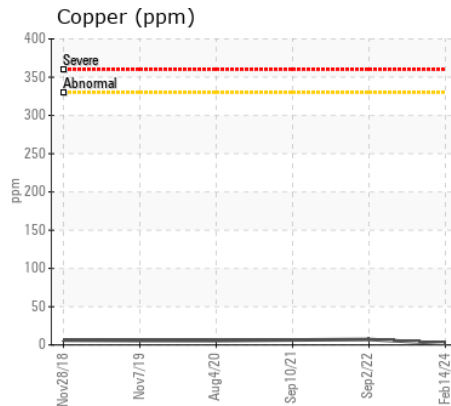
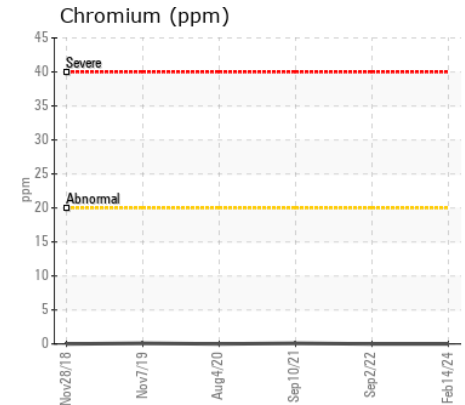
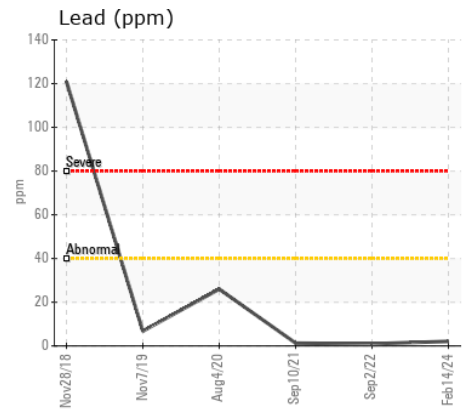
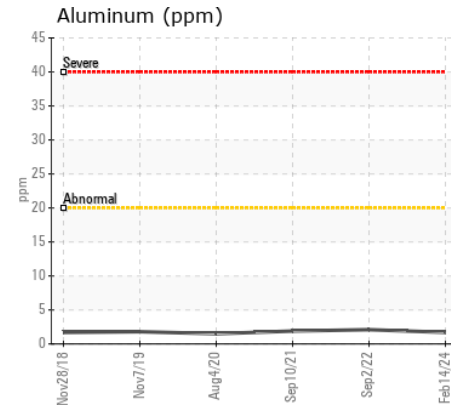
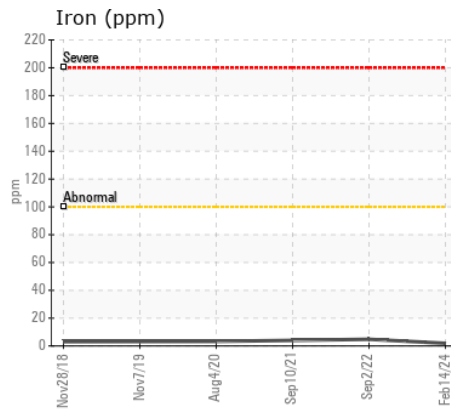
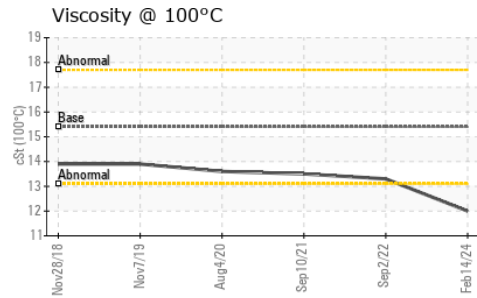
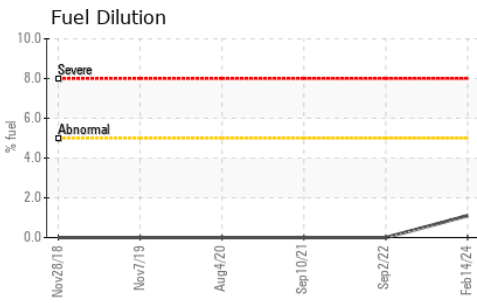
Light fuel dilution occurring. No other contaminants were detected in the oil.

Silicon	ppm	ASTM D5185(m)	>25	2	2	2
Potassium	ppm	ASTM D5185(m)	>20	2	0	<1
Fuel	%	ASTM D7593*	>5	1.1	<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	3.5	6.0	3.1
Sulfation	Abs/.1mm	ASTM D7415*	>30	13.3	18.9	13.4
Silt	scalar	Visual*	NONE	NONE	---	NONE
Debris	scalar	Visual*	NONE	NONE	---	VLITE
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)	>192	1	4	4
Boron	ppm	ASTM D5185(m)		21	41	44
Barium	ppm	ASTM D5185(m)		0	0	0
Molybdenum	ppm	ASTM D5185(m)		6	<1	<1
Manganese	ppm	ASTM D5185(m)		0	<1	<1
Magnesium	ppm	ASTM D5185(m)		49	18	19
Calcium	ppm	ASTM D5185(m)	3780	2368	2392	2255
Phosphorus	ppm	ASTM D5185(m)	1370	1036	1015	986
Zinc	ppm	ASTM D5185(m)	1500	1117	1090	1096
Sulfur	ppm	ASTM D5185(m)	3800	2850	3328	3300
Oxidation	Abs/.1mm	ASTM D7414*	>25	7.2	15.2	6.0
Visc @ 100°C	cSt	ASTM D7279(m)	15.4	12.0	13.3	13.5



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : PN0005771 **Received** : 21 Feb 2024
Lab Number : 02616975 **Tested** : 22 Feb 2024
Unique Number : 5734085 **Diagnosed** : 22 Feb 2024 - Wes Davis
Test Package : MOB 1 (Additional Tests: FuelDilution, PercentFuel, 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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