



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
98 HOLLAND ST W BRADFORD BELL CANADA BELL CANADA

Component
Right Diesel Engine

Fluid
ESSO XD-3 EXTRA 15W40 (40 LTR)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		PN0005841	PN0004309	PN0003046
Sample Date		Client Info		12 Feb 2024	15 Nov 2022	11 Nov 2021
Machine Age	hrs	Client Info		110	91	64
Oil Age	hrs	Client Info		20	26	24
Filter Age	hrs	Client Info		20	26	24
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)	>51	2	2	2
Chromium	ppm	ASTM D5185(m)	>11	0	0	0
Nickel	ppm	ASTM D5185(m)	>5	<1	0	0
Titanium	ppm	ASTM D5185(m)		0	0	0
Silver	ppm	ASTM D5185(m)	>3	<1	0	0
Aluminum	ppm	ASTM D5185(m)	>31	2	3	3
Lead	ppm	ASTM D5185(m)	>26	<1	<1	<1
Copper	ppm	ASTM D5185(m)	>26	<1	<1	<1
Tin	ppm	ASTM D5185(m)	>4	0	0	0
Vanadium	ppm	ASTM D5185(m)		0	0	0

CONTAMINATION

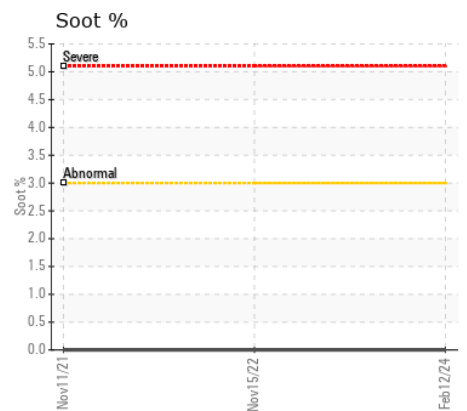
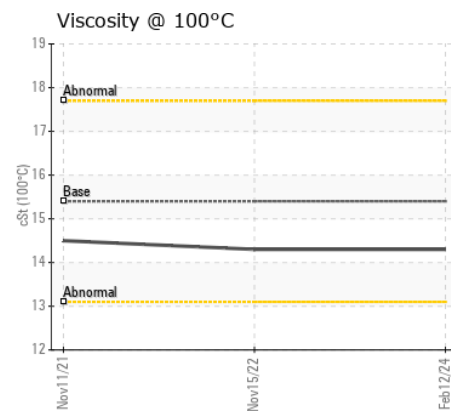
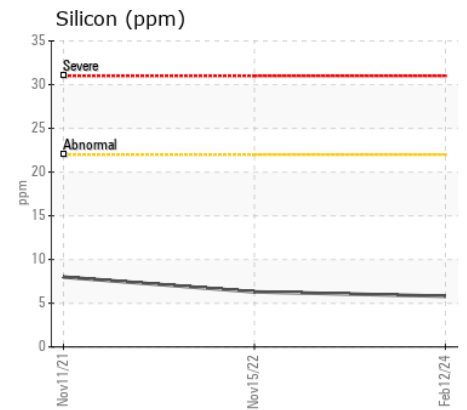
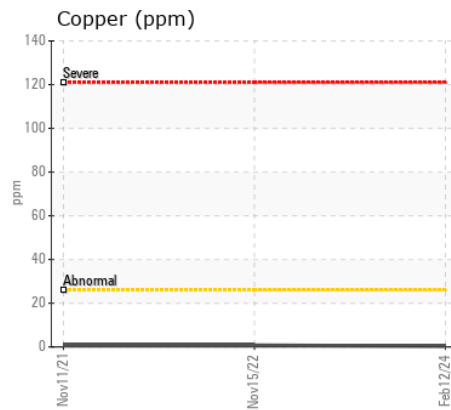
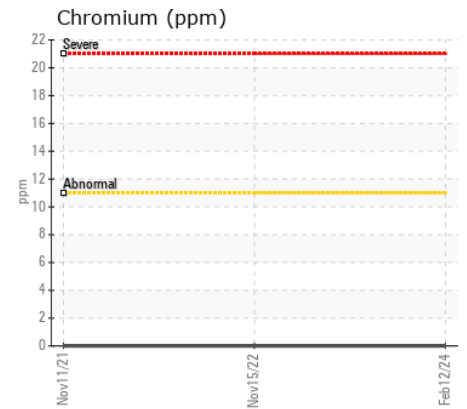
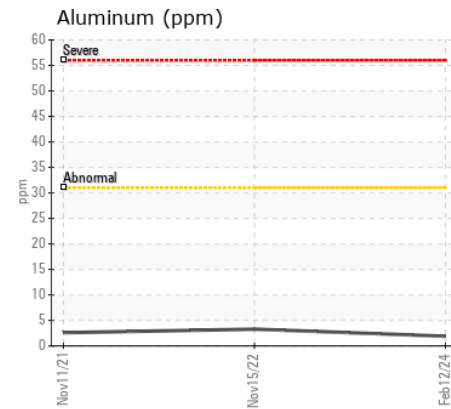
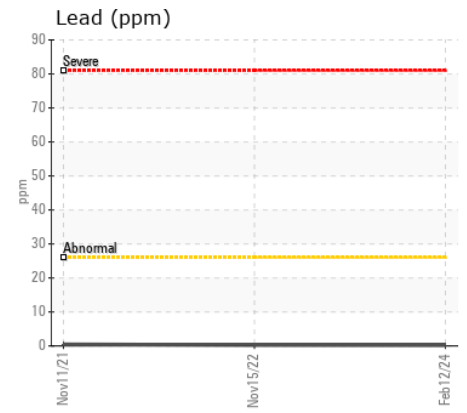
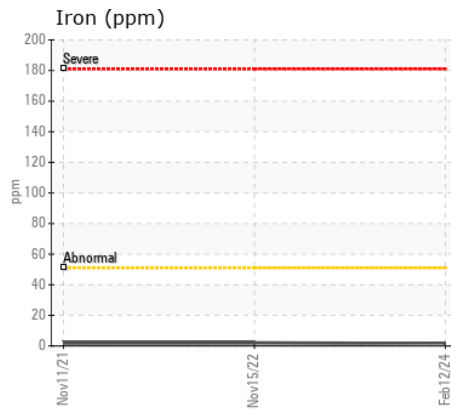
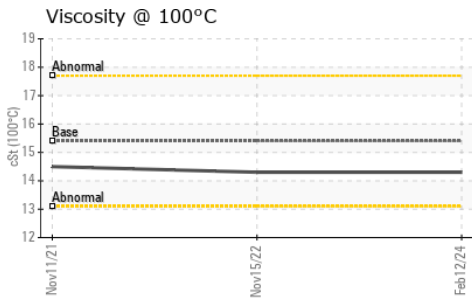
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>22	6	6	8
Potassium	ppm	ASTM D5185(m)	>20	<1	<1	1
Fuel		WC Method	>2.1	<1.0	<1.0	<1.0
Water		WC Method	>0.21	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	ASTM D7844*	>3	0	0	0
Nitration	Abs/cm	ASTM D7624*	>20	7.2	7.5	7.2
Sulfation	Abs/.1mm	ASTM D7415*	>30	17.2	18.3	18.0
Emulsified Water	scalar	Visual*	>0.21	NEG	NEG	NEG

FLUID CONDITION

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

Sodium	ppm	ASTM D5185(m)	>192	<1	3	2
Boron	ppm	ASTM D5185(m)		72	74	79
Barium	ppm	ASTM D5185(m)		0	0	0
Molybdenum	ppm	ASTM D5185(m)		14	86	88
Manganese	ppm	ASTM D5185(m)		0	<1	<1
Magnesium	ppm	ASTM D5185(m)		30	23	34
Calcium	ppm	ASTM D5185(m)	3780	2120	2224	2133
Phosphorus	ppm	ASTM D5185(m)	1370	1037	1069	1060
Zinc	ppm	ASTM D5185(m)	1500	1122	1171	1178
Sulfur	ppm	ASTM D5185(m)	3800	3565	3302	3319
Oxidation	Abs/.1mm	ASTM D7414*	>25	12.4	13.1	12.8
Visc @ 100°C	cSt	ASTM D7279(m)	15.4	14.3	14.3	14.5



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : PN0005841
Lab Number : 02615911
Unique Number : 5733021
Test Package : MOB 1
Received : 15 Feb 2024
Tested : 15 Feb 2024
Diagnosed : 15 Feb 2024 - Kevin Marson

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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.