



WEAR	<b>NORMAL</b>
CONTAMINATION	<b>NORMAL</b>
FLUID CONDITION	<b>NORMAL</b>

Area

**[83770]**

Machine Id

**BRITT BELL CANADA 4716968K**

Component

**Rear Diesel Engine**

Fluid

**ESSO XD-3 EXTRA 15W40 (8 LTR)**

**RECOMMENDATION**

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>PN0005649</b>	PN0004439	PN0003030
Sample Date		Client Info		<b>12 Jan 2024</b>	12 Jan 2023	09 Mar 2022
Machine Age	hrs	Client Info		<b>1766</b>	1733	1590
Oil Age	hrs	Client Info		<b>34</b>	143	0
Filter Age	hrs	Client Info		<b>34</b>	143	0
Oil Changed		Client Info		<b>Changed</b>	Changed	Changed
Filter Changed		Client Info		<b>Not Chngd</b>	Changed	Not Chngd
Sample Status				<b>NORMAL</b>	NORMAL	NORMAL

**WEAR**

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>250	<b>2</b>	4	5
Chromium	ppm	ASTM D5185(m)	>10	<b>0</b>	0	<1
Nickel	ppm	ASTM D5185(m)	>5	<b>0</b>	<1	<1
Titanium	ppm	ASTM D5185(m)		<b>0</b>	<1	0
Silver	ppm	ASTM D5185(m)	>3	<b>0</b>	0	0
Aluminum	ppm	ASTM D5185(m)	>35	<b>2</b>	4	3
Lead	ppm	ASTM D5185(m)	>100	<b>&lt;1</b>	1	2
Copper	ppm	ASTM D5185(m)	>60	<b>&lt;1</b>	<1	1
Tin	ppm	ASTM D5185(m)	>5	<b>0</b>	<1	<1
Vanadium	ppm	ASTM D5185(m)		<b>0</b>	0	0
White Metal	scalar	Visual*	NONE	<b>NONE</b>	---	NONE
Yellow Metal	scalar	Visual*	NONE	<b>VLITE</b>	---	NONE

**CONTAMINATION**

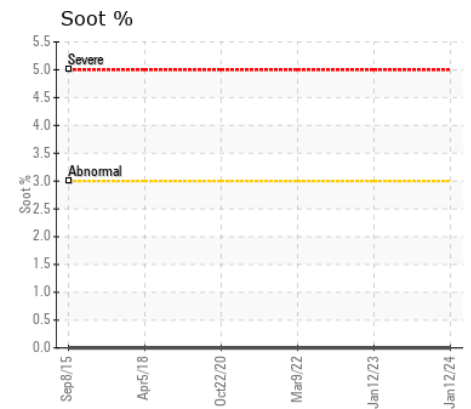
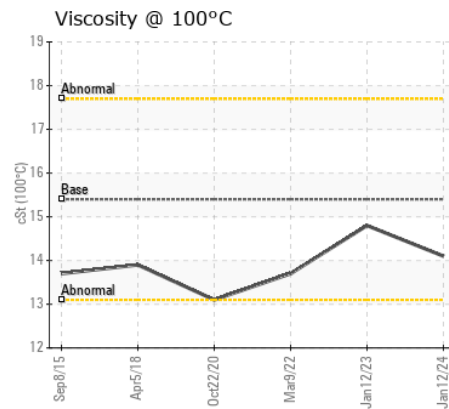
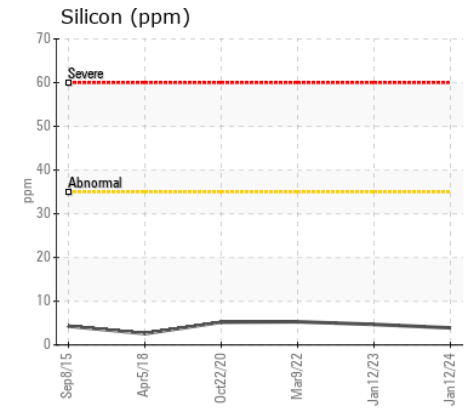
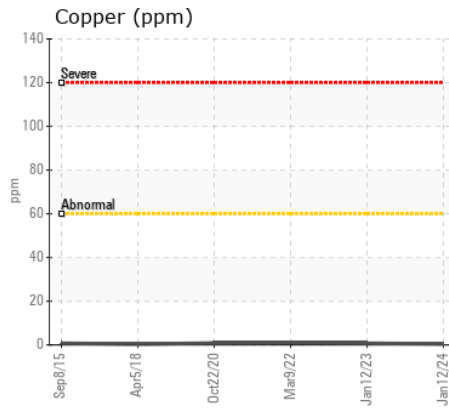
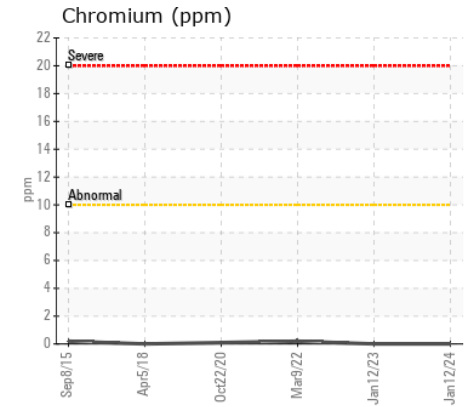
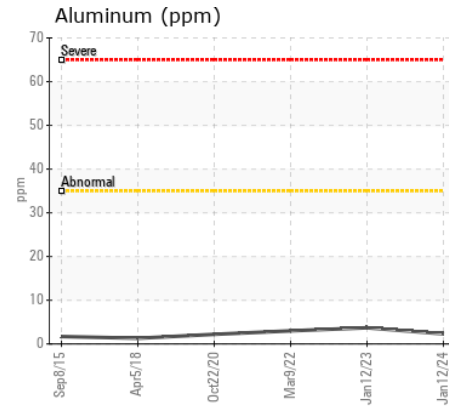
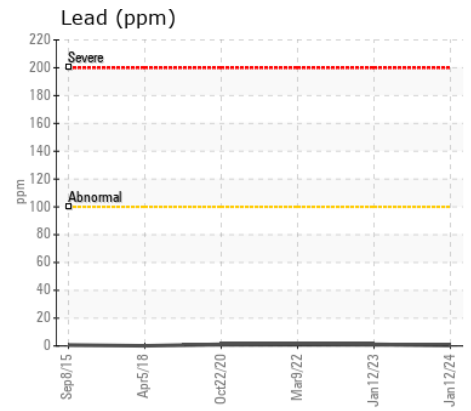
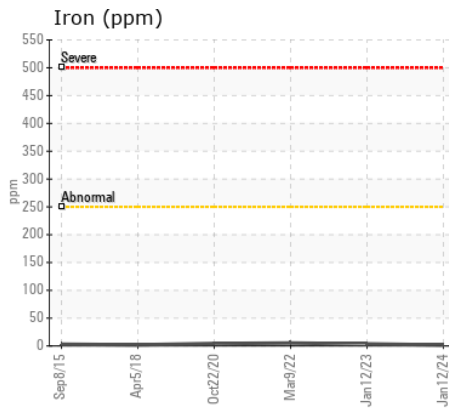
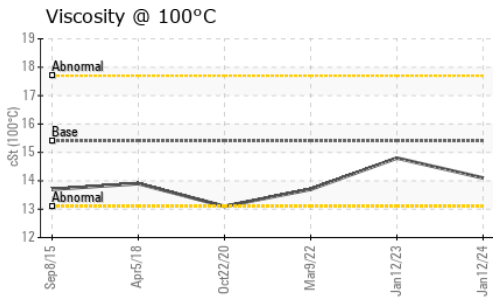
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>35	<b>4</b>	5	5
Potassium	ppm	ASTM D5185(m)	>20	<b>0</b>	<1	<1
Fuel		WC Method	>5	<b>&lt;1.0</b>	<1.0	<1.0
Water		WC Method	>0.2	<b>NEG</b>	NEG	NEG
Glycol		WC Method		<b>NEG</b>	NEG	NEG
Soot %	%	ASTM D7844*	>3	<b>0</b>	0	0
Nitration	Abs/cm	ASTM D7624*	>20	<b>8.1</b>	10.2	9.4
Sulfation	Abs/.1mm	ASTM D7415*	>30	<b>17.7</b>	20.9	22.2
Silt	scalar	Visual*	NONE	<b>NONE</b>	---	NONE
Debris	scalar	Visual*	NONE	<b>NONE</b>	---	VLITE
Sand/Dirt	scalar	Visual*	NONE	<b>NONE</b>	---	NONE
Appearance	scalar	Visual*	NORML	<b>NORML</b>	---	NORML
Odor	scalar	Visual*	NORML	<b>NORML</b>	NORML	NORML
Emulsified Water	scalar	Visual*	>0.2	<b>NEG</b>	NEG	NEG

**FLUID CONDITION**

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

Sodium	ppm	ASTM D5185(m)	>192	<b>&lt;1</b>	3	3
Boron	ppm	ASTM D5185(m)		<b>66</b>	64	59
Barium	ppm	ASTM D5185(m)		<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185(m)		<b>15</b>	85	64
Manganese	ppm	ASTM D5185(m)		<b>0</b>	<1	<1
Magnesium	ppm	ASTM D5185(m)		<b>42</b>	77	343
Calcium	ppm	ASTM D5185(m)	3780	<b>2094</b>	2217	1973
Phosphorus	ppm	ASTM D5185(m)	1370	<b>979</b>	1051	926
Zinc	ppm	ASTM D5185(m)	1500	<b>1096</b>	1167	1092
Sulfur	ppm	ASTM D5185(m)	3800	<b>3365</b>	3078	2702
Oxidation	Abs/.1mm	ASTM D7414*	>25	<b>13.4</b>	17.9	20.2
Visc @ 100°C	cSt	ASTM D7279(m)	15.4	<b>14.1</b>	14.8	13.7



ISO 17025:2017  
Accredited  
Laboratory

**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : PN0005649 **Received** : 16 Jan 2024  
**Lab Number** : 02608960 **Diagnosed** : 16 Jan 2024  
**Unique Number** : 5710046 **Diagnostician** : Wes Davis  
**Test Package** : MOB 1 ( Additional Tests: 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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