



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

Area

**[85593]**

Machine Id

**5755 KING ST NOBELTON BELL CANADA 1520412**

Component

**Left Diesel Engine**

Fluid

**ESSO XD-3 EXTRA 15W40 (6 LTR)**

**RECOMMENDATION**

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>PN0006038</b>	PN0004292	PN0000911
Sample Date		Client Info		<b>09 Apr 2024</b>	18 Nov 2022	26 Mar 2020
Machine Age	hrs	Client Info		<b>364</b>	334	279
Oil Age	hrs	Client Info		<b>31</b>	45	0
Filter Age	hrs	Client Info		<b>31</b>	45	0
Oil Changed		Client Info		<b>Changed</b>	Changed	Changed
Filter Changed		Client Info		<b>Changed</b>	Changed	Not Changd
Sample Status				<b>NORMAL</b>	NORMAL	NORMAL

**WEAR**

Metal levels are typical for a new component breaking in.

Iron	ppm	ASTM D5185(m)	>250	<b>4</b>	8	7
Chromium	ppm	ASTM D5185(m)	>10	<b>0</b>	0	<1
Nickel	ppm	ASTM D5185(m)	>5	<b>&lt;1</b>	0	0
Titanium	ppm	ASTM D5185(m)		<b>0</b>	<1	<1
Silver	ppm	ASTM D5185(m)	>3	<b>0</b>	0	<1
Aluminum	ppm	ASTM D5185(m)	>35	<b>2</b>	2	1
Lead	ppm	ASTM D5185(m)	>100	<b>&lt;1</b>	3	<1
Copper	ppm	ASTM D5185(m)	>60	<b>28</b>	79	3
Tin	ppm	ASTM D5185(m)	>5	<b>0</b>	0	<1
Vanadium	ppm	ASTM D5185(m)		<b>0</b>	0	0
White Metal	scalar	Visual*	NONE	<b>NONE</b>	---	---
Yellow Metal	scalar	Visual*	NONE	<b>NONE</b>	---	---

**CONTAMINATION**

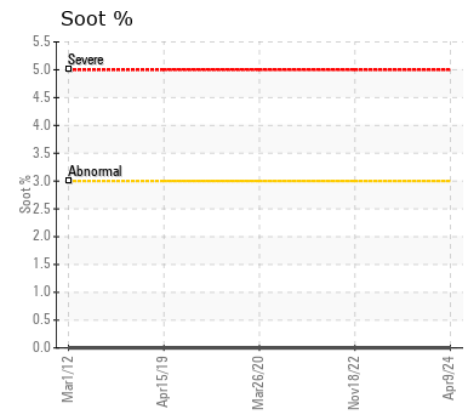
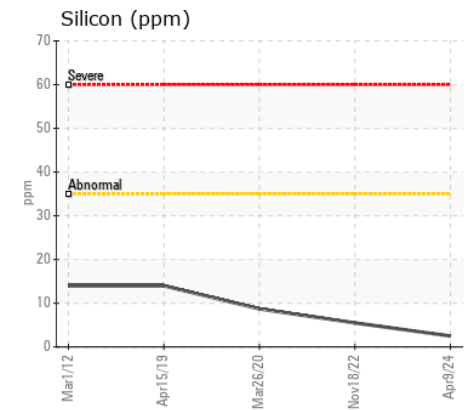
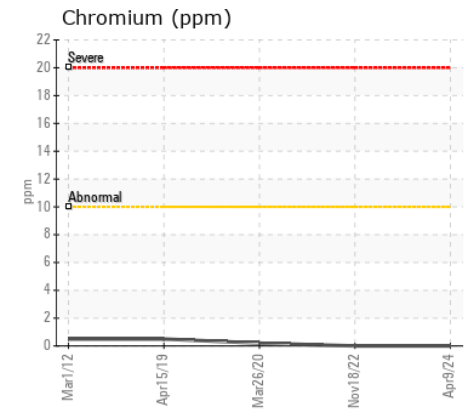
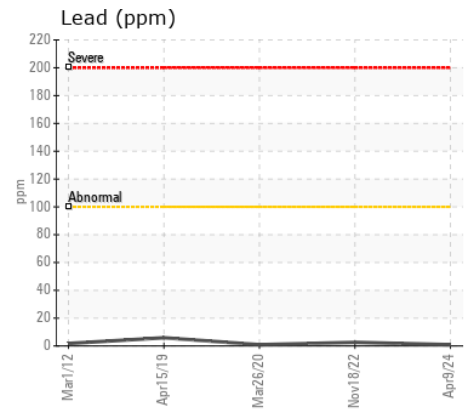
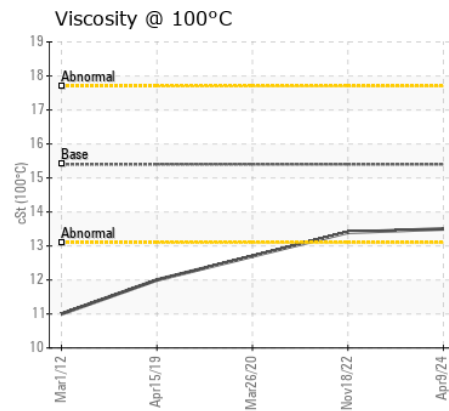
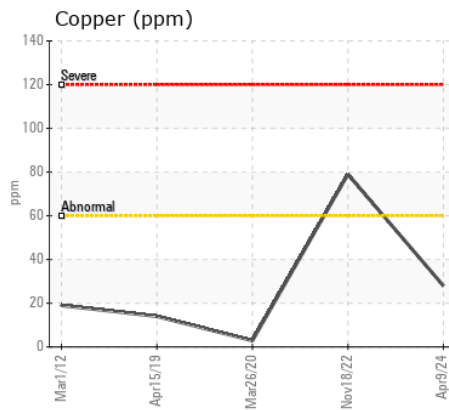
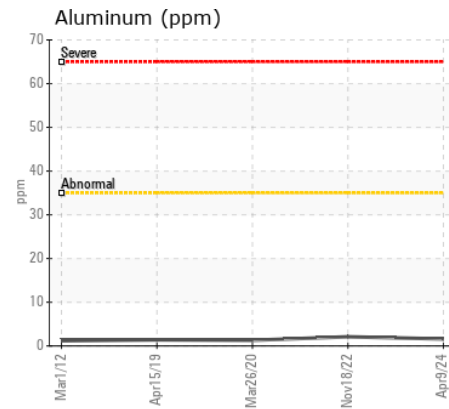
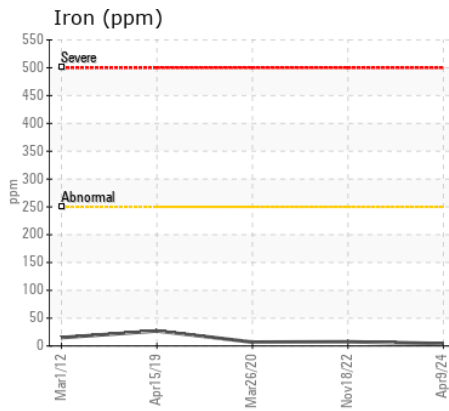
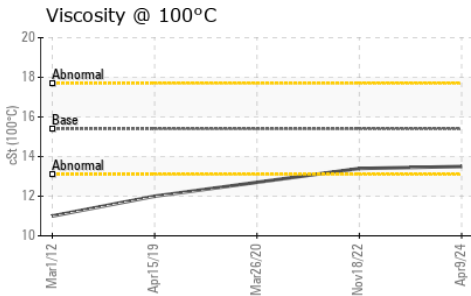
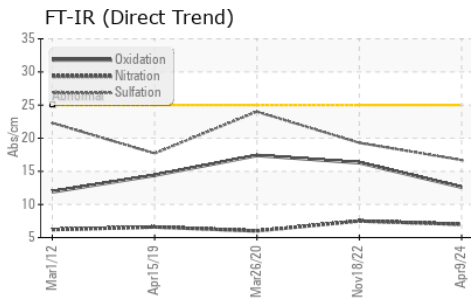
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>35	<b>2</b>	6	9
Potassium	ppm	ASTM D5185(m)	>20	<b>&lt;1</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>7.0</b>	7.5	6.0
Sulfation	Abs/.1mm	ASTM D7415*	>30	<b>16.7</b>	19.3	24.0
Silt	scalar	Visual*	NONE	<b>NONE</b>	---	---
Debris	scalar	Visual*	NONE	<b>NONE</b>	---	---
Sand/Dirt	scalar	Visual*	NONE	<b>NONE</b>	---	---
Appearance	scalar	Visual*	NORML	<b>NORML</b>	---	---
Odor	scalar	Visual*	NORML	<b>NORML</b>	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>2</b>	4	3
Boron	ppm	ASTM D5185(m)		<b>60</b>	57	54
Barium	ppm	ASTM D5185(m)		<b>0</b>	0	<1
Molybdenum	ppm	ASTM D5185(m)		<b>23</b>	59	36
Manganese	ppm	ASTM D5185(m)		<b>&lt;1</b>	2	2
Magnesium	ppm	ASTM D5185(m)		<b>106</b>	231	486
Calcium	ppm	ASTM D5185(m)	3780	<b>2020</b>	1977	1687
Phosphorus	ppm	ASTM D5185(m)	1370	<b>942</b>	972	808
Zinc	ppm	ASTM D5185(m)	1500	<b>1061</b>	1047	932
Sulfur	ppm	ASTM D5185(m)	3800	<b>3088</b>	2948	2389
Oxidation	Abs/.1mm	ASTM D7414*	>25	<b>12.6</b>	16.3	17.4
Visc @ 100°C	cSt	ASTM D7279(m)	15.4	<b>13.5</b>	13.4	12.7



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : PN0006038 **Received** : 22 Apr 2024  
**Lab Number** : 02630529 **Tested** : 22 Apr 2024  
**Unique Number** : 5763661 **Diagnosed** : 22 Apr 2024 - 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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