



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

Machine Id  
**380 COLLEGE ST BELLEVILLE, 64-P05065 BELL CANADA 6932850**

Component  
**Right Diesel Engine**

Fluid  
**ESSO XD-3 EXTRA 15W40 (10 LTR)**

**RECOMMENDATION**

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>PN0006050</b>	PN104614	PN908233
Sample Date		Client Info		<b>12 May 2024</b>	28 Nov 2017	12 Nov 2013
Machine Age	hrs	Client Info		<b>387</b>	280	233
Oil Age	hrs	Client Info		<b>0</b>	5	32
Filter Age	hrs	Client Info		<b>0</b>	5	32
Oil Changed		Client Info		<b>Changed</b>	Changed	Changed
Filter Changed		Client Info		<b>Changed</b>	Changed	Changed
Sample Status				<b>NORMAL</b>	NORMAL	NORMAL

**WEAR**

Metal levels are typical for a new component breaking in.

Iron	ppm	ASTM D5185(m)	>80	<b>2</b>	3	2
Chromium	ppm	ASTM D5185(m)	>6	<b>0</b>	<1	<1
Nickel	ppm	ASTM D5185(m)	>2	<b>0</b>	<1	0
Titanium	ppm	ASTM D5185(m)	>2	<b>0</b>	<1	0
Silver	ppm	ASTM D5185(m)	>2	<b>0</b>	0	0
Aluminum	ppm	ASTM D5185(m)	>20	<b>2</b>	2	1
Lead	ppm	ASTM D5185(m)	>95	<b>0</b>	<1	0
Copper	ppm	ASTM D5185(m)	>85	<b>&lt;1</b>	<1	<1
Tin	ppm	ASTM D5185(m)	>9	<b>0</b>	0	0
Vanadium	ppm	ASTM D5185(m)		<b>0</b>	0	0
White Metal	scalar	Visual*	NONE	<b>VLITE</b>	---	---
Yellow Metal	scalar	Visual*	NONE	<b>NONE</b>	---	---

**CONTAMINATION**

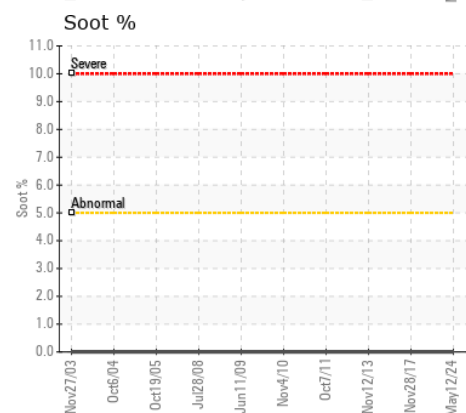
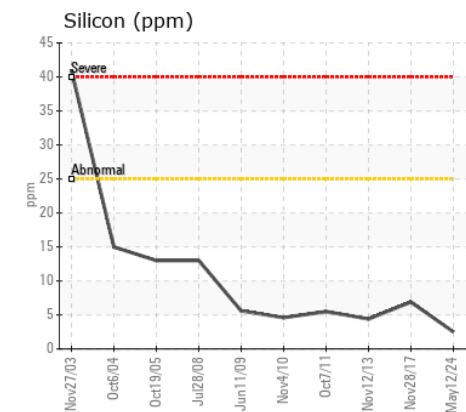
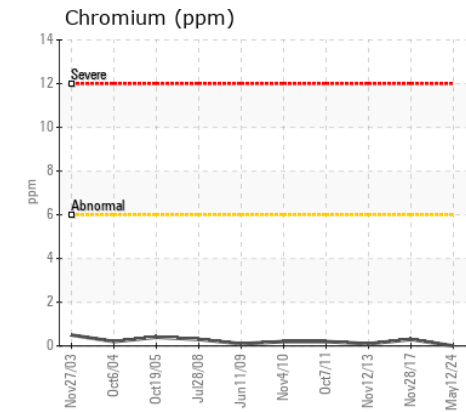
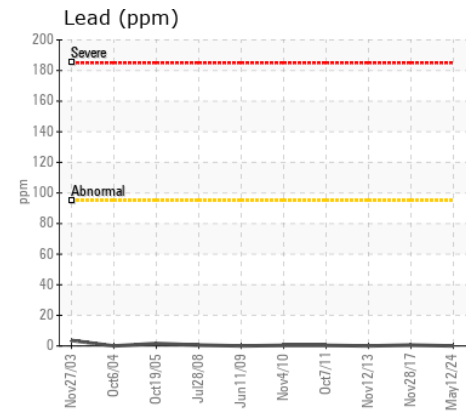
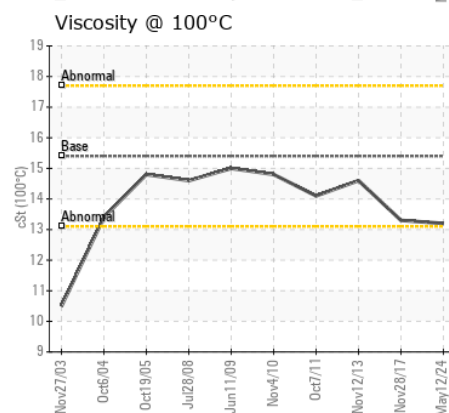
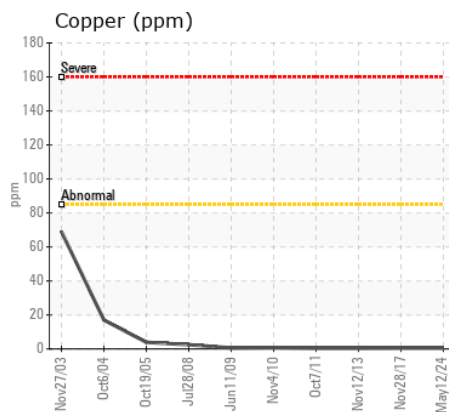
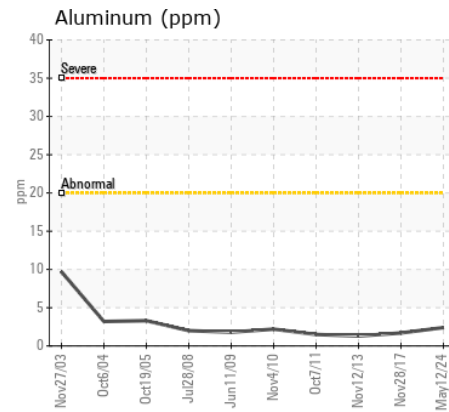
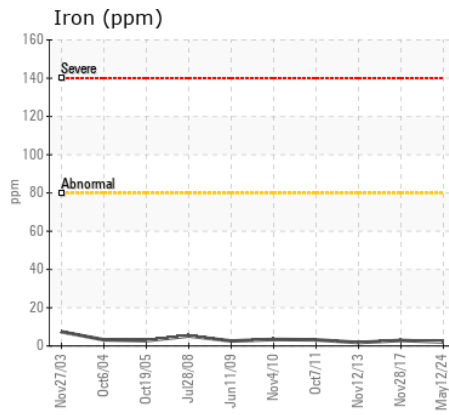
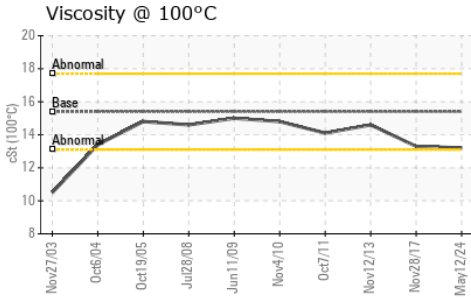
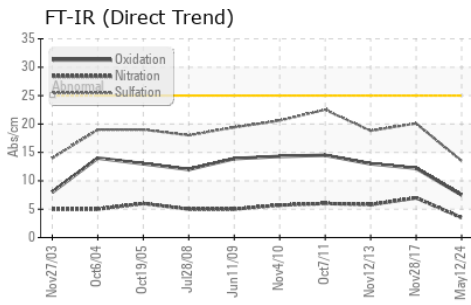
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>25	<b>2</b>	7	4
Potassium	ppm	ASTM D5185(m)	>20	<b>1</b>	1	<1
Fuel		WC Method	>4.0	<b>&lt;1.0</b>	<1.0	<1.0
Water		WC Method	>0.1	<b>NEG</b>	NEG	NEG
Glycol		WC Method		<b>NEG</b>	NEG	NEG
Soot %	%	ASTM D7844*		<b>0</b>	0	0
Nitration	Abs/cm	ASTM D7624*	>20	<b>3.5</b>	7.0	5.8
Sulfation	Abs/.1mm	ASTM D7415*	>30	<b>13.5</b>	20.1	18.8
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>	---	---
Emulsified Water	scalar	Visual*	>0.1	<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>1</b>	6	6
Boron	ppm	ASTM D5185(m)		<b>15</b>	20	2
Barium	ppm	ASTM D5185(m)		<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185(m)		<b>9</b>	40	38
Manganese	ppm	ASTM D5185(m)		<b>0</b>	0	<1
Magnesium	ppm	ASTM D5185(m)		<b>115</b>	709	724
Calcium	ppm	ASTM D5185(m)	3780	<b>2104</b>	1311	1423
Phosphorus	ppm	ASTM D5185(m)	1370	<b>910</b>	1004	1104
Zinc	ppm	ASTM D5185(m)	1500	<b>1049</b>	1223	1269
Sulfur	ppm	ASTM D5185(m)	3800	<b>2357</b>	3078	3486
Oxidation	Abs/.1mm	ASTM D7414*	>25	<b>7.5</b>	12.2	13.0
Visc @ 100°C	cSt	ASTM D7279(m)	15.4	<b>13.2</b>	13.3	14.6



ISO 17025:2017  
Accredited  
Laboratory

**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : PN0006050 **Received** : 13 May 2024  
**Lab Number** : 02634888 **Tested** : 13 May 2024  
**Unique Number** : 5776041 **Diagnosed** : 13 May 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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