



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
988 WILSON AVE, KITCHENER 64P05064 BELL CANADA K414539

Component
Right 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		PN0005855	PN111245	---
Sample Date		Client Info		11 Apr 2024	10 May 2018	---
Machine Age	hrs	Client Info		412	263	---
Oil Age	hrs	Client Info		0	9	---
Filter Age	hrs	Client Info		0	9	---
Oil Changed		Client Info		Changed	Changed	---
Filter Changed		Client Info		Changed	Changed	---
Sample Status				NORMAL	NORMAL	---

WEAR

Metal levels are typical for a new component breaking in.

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

CONTAMINATION

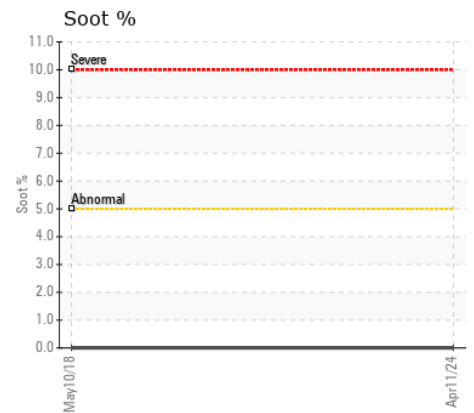
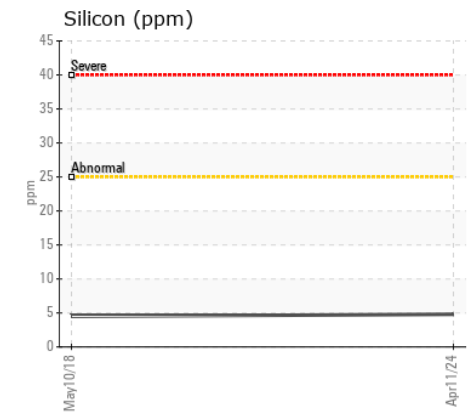
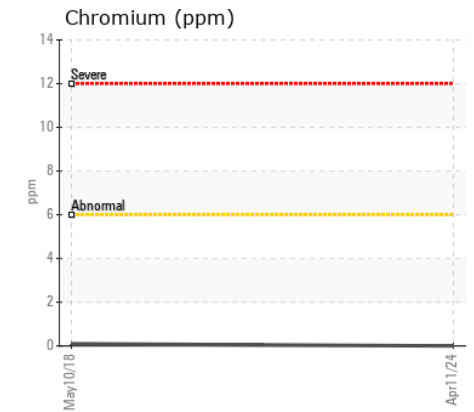
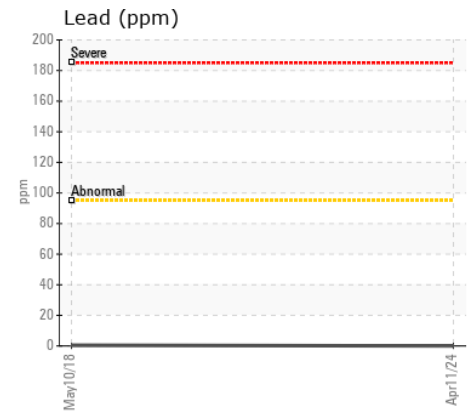
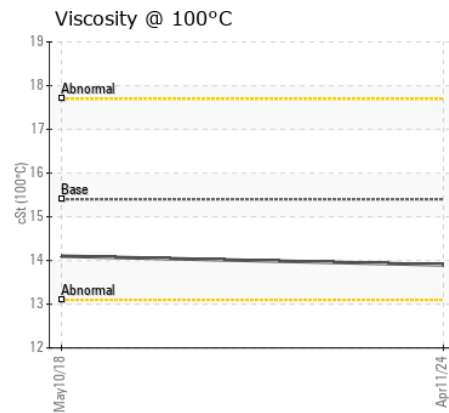
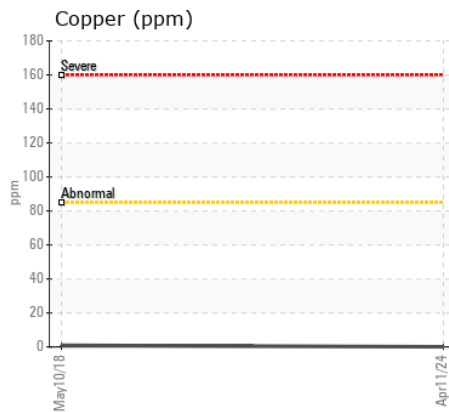
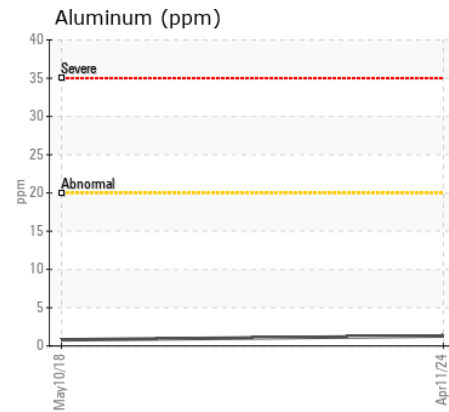
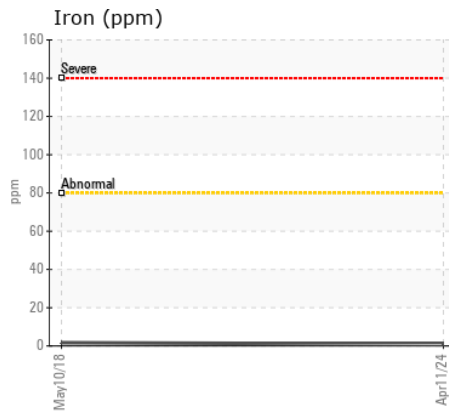
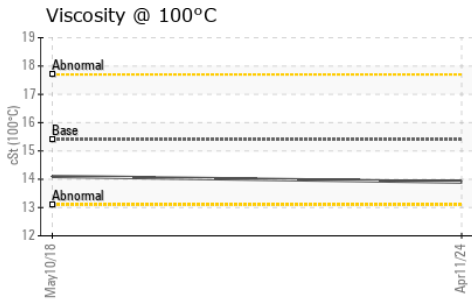
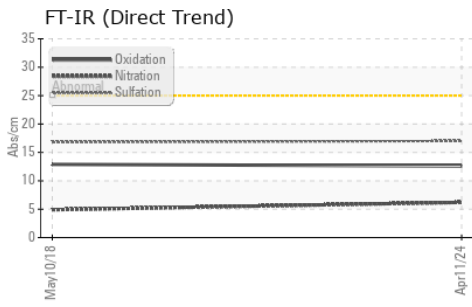
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>25	5	4	---
Potassium	ppm	ASTM D5185(m)	>20	0	0	---
Fuel		WC Method	>4.0	<1.0	<1.0	---
Water		WC Method	>0.1	NEG	NEG	---
Glycol		WC Method		NEG	NEG	---
Soot %	%	ASTM D7844*		0	0	---
Nitration	Abs/cm	ASTM D7624*	>20	6.2	4.9	---
Sulfation	Abs/.1mm	ASTM D7415*	>30	17.0	16.8	---
Silt	scalar	Visual*	NONE	NONE	NONE	---
Debris	scalar	Visual*	NONE	VLITE	LIGHT	---
Sand/Dirt	scalar	Visual*	NONE	VLITE	NONE	---
Appearance	scalar	Visual*	NORML	NORML	NORML	---
Odor	scalar	Visual*	NORML	NORML	NORML	---
Emulsified Water	scalar	Visual*	>0.1	NEG	NEG	---

FLUID CONDITION

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

Sodium	ppm	ASTM D5185(m)	>192	1	3	---
Boron	ppm	ASTM D5185(m)		47	3	---
Barium	ppm	ASTM D5185(m)		0	0	---
Molybdenum	ppm	ASTM D5185(m)		42	44	---
Manganese	ppm	ASTM D5185(m)		0	0	---
Magnesium	ppm	ASTM D5185(m)		444	810	---
Calcium	ppm	ASTM D5185(m)	3780	1620	1240	---
Phosphorus	ppm	ASTM D5185(m)	1370	978	1035	---
Zinc	ppm	ASTM D5185(m)	1500	1109	1199	---
Sulfur	ppm	ASTM D5185(m)	3800	2910	2820	---
Oxidation	Abs/.1mm	ASTM D7414*	>25	12.6	12.9	---
Visc @ 100°C	cSt	ASTM D7279(m)	15.4	13.9	14.1	---



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : PN0005855 **Received** : 17 Apr 2024
Lab Number : 02629494 **Tested** : 17 Apr 2024
Unique Number : 5762626 **Diagnosed** : 17 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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