



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

Area  
**[85536]**  
 Machine Id  
**184 SIMPSON AVE TORONTO BELL CANADA PRH04690**

Component  
**Right Diesel Engine**  
 Fluid  
**ESSO XD-3 EXTRA 15W40 (300 LTR)**

**RECOMMENDATION**

No corrective action is recommended at this time. Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>PN0006018</b>	PN0004736	PN0003435
Sample Date		Client Info		<b>05 Apr 2024</b>	04 Apr 2023	01 Apr 2022
Machine Age	hrs	Client Info		<b>203</b>	189	160
Oil Age	hrs	Client Info		<b>14</b>	0	0
Filter Age	hrs	Client Info		<b>14</b>	0	0
Oil Changed		Client Info		<b>Not Changed</b>	Not Changed	Not Changed
Filter Changed		Client Info		<b>Changed</b>	Not Changed	Changed
Sample Status				<b>ABNORMAL</b>	ABNORMAL	ABNORMAL

**WEAR**

Metal levels are typical for a new component breaking in.

Iron	ppm	ASTM D5185(m)	>100	<b>16</b>	15	16
Chromium	ppm	ASTM D5185(m)	>20	<b>0</b>	<1	<1
Nickel	ppm	ASTM D5185(m)	>2	<b>0</b>	<1	<1
Titanium	ppm	ASTM D5185(m)	>2	<b>0</b>	<1	0
Silver	ppm	ASTM D5185(m)	>2	<b>0</b>	0	<1
Aluminum	ppm	ASTM D5185(m)	>25	<b>2</b>	2	2
Lead	ppm	ASTM D5185(m)	>40	<b>4</b>	5	6
Copper	ppm	ASTM D5185(m)	>330	<b>14</b>	13	14
Tin	ppm	ASTM D5185(m)	>15	<b>2</b>	3	3
Vanadium	ppm	ASTM D5185(m)		<b>0</b>	0	0

**CONTAMINATION**

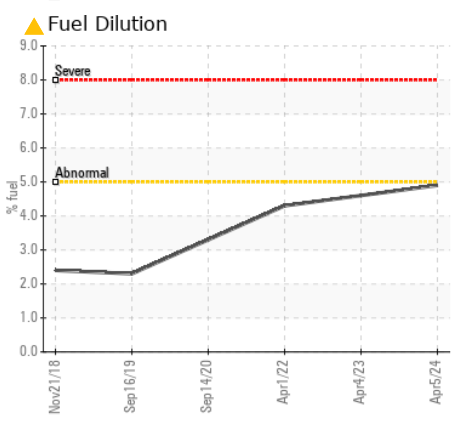
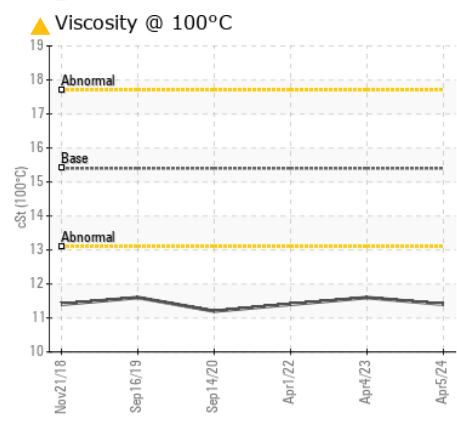
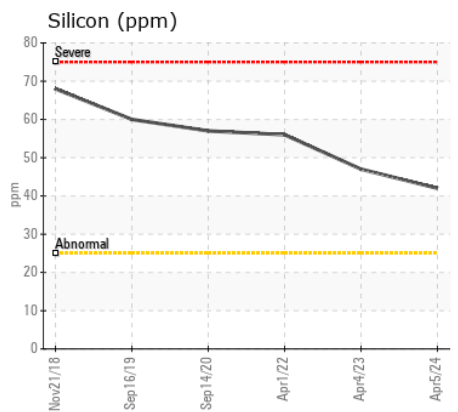
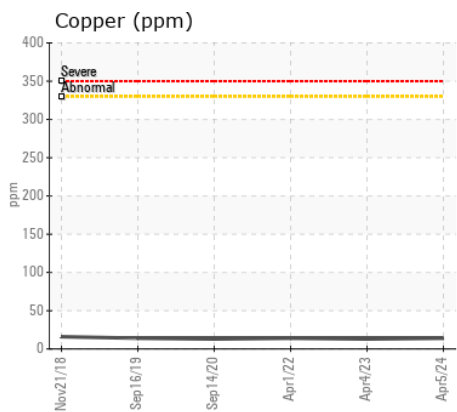
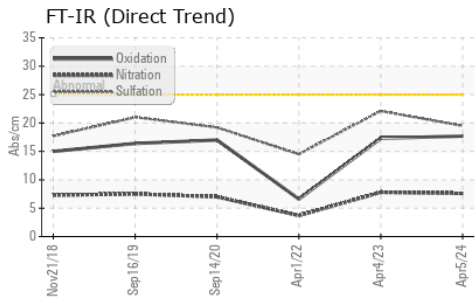
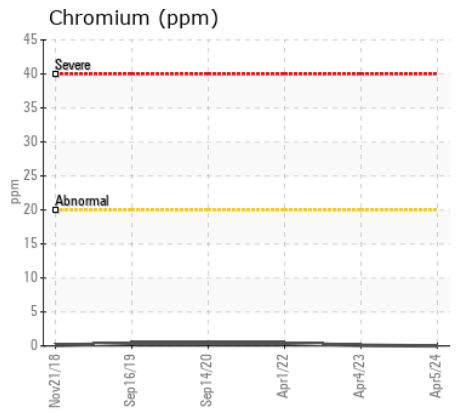
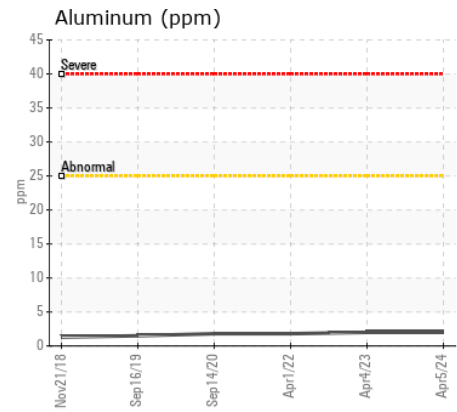
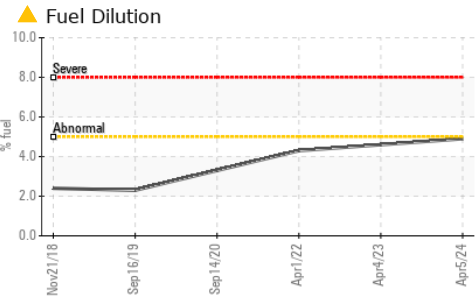
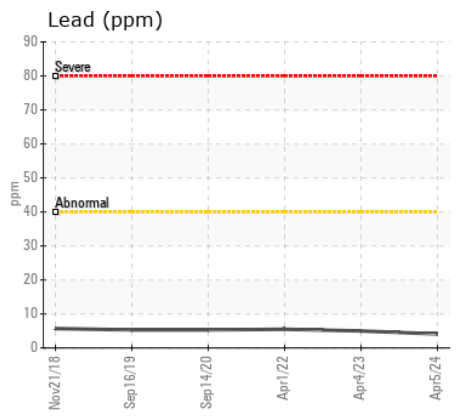
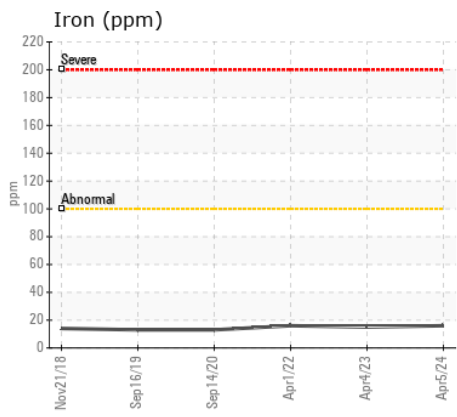
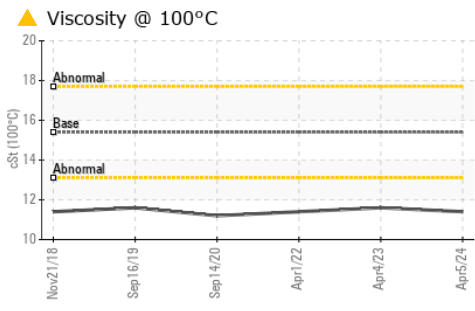
Light fuel dilution occurring. No other contaminants were detected in the oil.

Silicon	ppm	ASTM D5185(m)	>25	<b>42</b>	47	56
Potassium	ppm	ASTM D5185(m)	>20	<b>3</b>	3	4
Fuel	%	ASTM D7593*	>5	<b>▲ 4.9</b>	▲ 4.6	▲ 4.3
Water		WC Method	>0.2	<b>NEG</b>	NEG	NEG
Glycol		WC Method		<b>NEG</b>	NEG	NEG
Soot %	%	ASTM D7844*	>3	<b>0.1</b>	0	0
Nitration	Abs/cm	ASTM D7624*	>20	<b>7.6</b>	7.8	3.7
Sulfation	Abs/.1mm	ASTM D7415*	>30	<b>19.5</b>	22.1	14.5
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>5</b>	5	6
Boron	ppm	ASTM D5185(m)		<b>34</b>	38	40
Barium	ppm	ASTM D5185(m)		<b>1</b>	1	2
Molybdenum	ppm	ASTM D5185(m)		<b>39</b>	42	37
Manganese	ppm	ASTM D5185(m)		<b>2</b>	2	2
Magnesium	ppm	ASTM D5185(m)		<b>420</b>	438	561
Calcium	ppm	ASTM D5185(m)	3780	<b>1691</b>	1736	1468
Phosphorus	ppm	ASTM D5185(m)	1370	<b>811</b>	879	835
Zinc	ppm	ASTM D5185(m)	1500	<b>959</b>	944	943
Sulfur	ppm	ASTM D5185(m)	3800	<b>2585</b>	2693	2522
Oxidation	Abs/.1mm	ASTM D7414*	>25	<b>17.7</b>	17.3	6.6
Visc @ 100°C	cSt	ASTM D7279(m)	15.4	<b>▲ 11.4</b>	▲ 11.6	▲ 11.4



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : PN0006018 **Received** : 09 Apr 2024  
**Lab Number** : 02627631 **Tested** : 10 Apr 2024  
**Unique Number** : 5760763 **Diagnosed** : 10 Apr 2024 - Wes Davis  
**Test Package** : MOB 1 ( Additional Tests: FUELDILUTION, PercentFuel )

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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.