



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

Machine Id  
**31 FINCH AVE E, NORTH YORK O2D16521 BELL CANADA MJE00264**

Component  
**Right Diesel Engine**

Fluid  
**ESSO XD-3 EXTRA 15W40 (100 LTR)**

**RECOMMENDATION**

The oil change at the time of sampling has been noted. Resample at the next service interval to monitor. No other corrective action is recommended at this time.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>PN0005930</b>	PN0004785	PN0003527
Sample Date		Client Info		<b>03 Apr 2024</b>	16 May 2023	20 Apr 2022
Machine Age	hrs	Client Info		<b>306</b>	302	296
Oil Age	hrs	Client Info		<b>0</b>	0	17
Filter Age	hrs	Client Info		<b>0</b>	0	17
Oil Changed		Client Info		<b>Changed</b>	Not Changd	Changed
Filter Changed		Client Info		<b>Changed</b>	Changed	Changed
Sample Status				<b>ABNORMAL</b>	ABNORMAL	SEVERE

**WEAR**

Metal levels are typical for a new component breaking in.

Iron	ppm	ASTM D5185(m)	>100	<b>2</b>	2	14
Chromium	ppm	ASTM D5185(m)	>20	<b>0</b>	0	<1
Nickel	ppm	ASTM D5185(m)	>2	<b>0</b>	0	<1
Titanium	ppm	ASTM D5185(m)	>2	<b>0</b>	0	0
Silver	ppm	ASTM D5185(m)	>2	<b>0</b>	0	0
Aluminum	ppm	ASTM D5185(m)	>25	<b>&lt;1</b>	1	1
Lead	ppm	ASTM D5185(m)	>40	<b>0</b>	0	3
Copper	ppm	ASTM D5185(m)	>330	<b>1</b>	1	18
Tin	ppm	ASTM D5185(m)	>15	<b>0</b>	0	2
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**

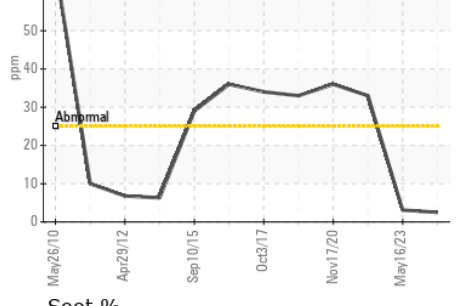
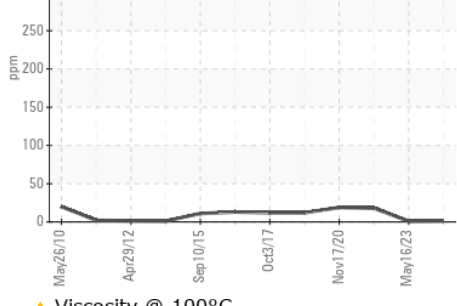
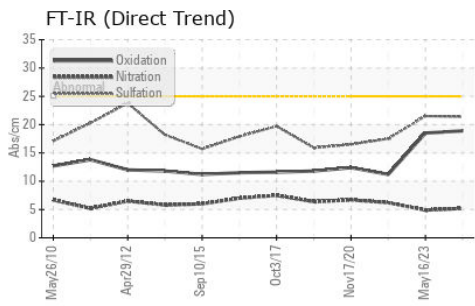
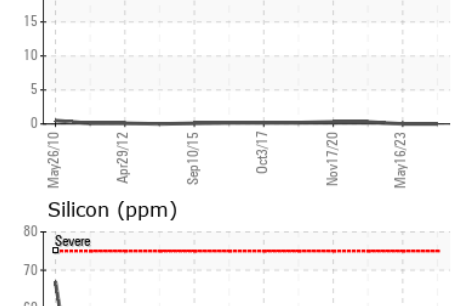
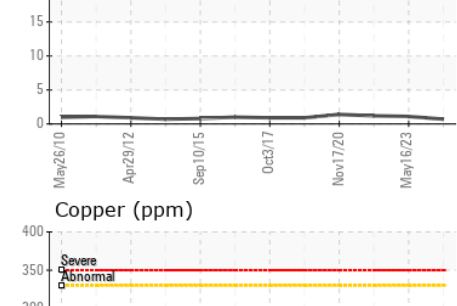
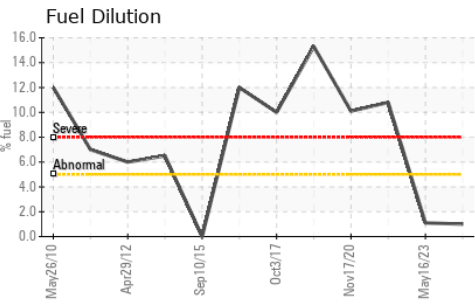
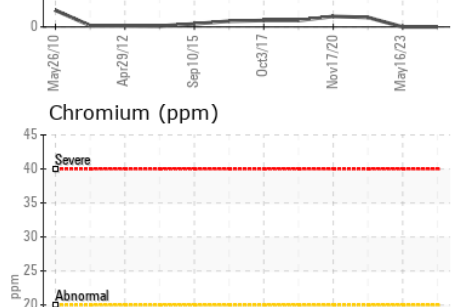
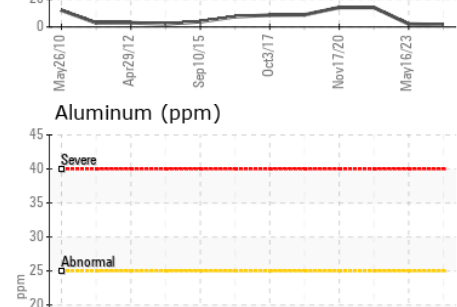
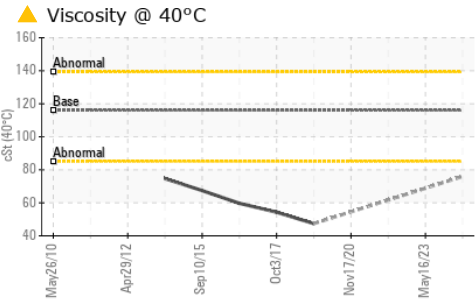
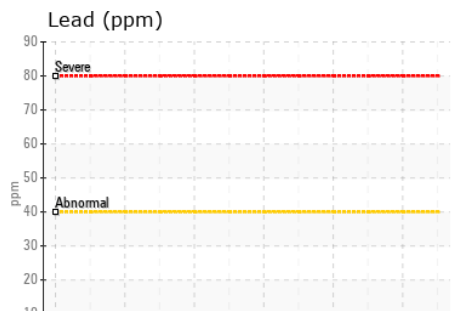
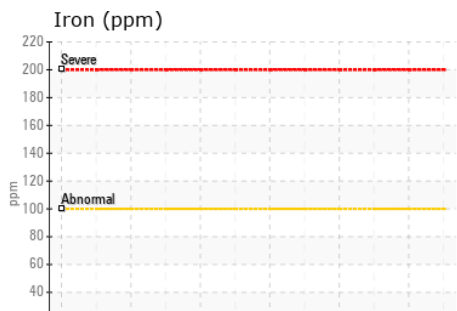
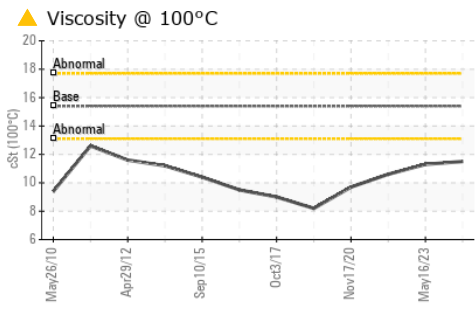
Light fuel dilution occurring. No other contaminants were detected in the oil.

Silicon	ppm	ASTM D5185(m)	>25	<b>2</b>	3	33
Potassium	ppm	ASTM D5185(m)	>20	<b>0</b>	0	<1
Fuel	%	ASTM D7593*	>5	<b>1</b>	1.1	▲ 10.8
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>5.2</b>	4.9	6.2
Sulfation	Abs/.1mm	ASTM D7415*	>30	<b>21.4</b>	21.5	17.5
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	NORML
Emulsified Water	scalar	Visual*	>0.2	<b>NEG</b>	NEG	NEG

**FLUID CONDITION**

Viscosity of sample indicates oil is within SAE 10W30 range, advise investigate. The condition of the oil is acceptable for the time in service.

Sodium	ppm	ASTM D5185(m)	>192	<b>2</b>	2	7
Boron	ppm	ASTM D5185(m)		<b>57</b>	62	17
Barium	ppm	ASTM D5185(m)		<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185(m)		<b>44</b>	42	45
Manganese	ppm	ASTM D5185(m)		<b>0</b>	<1	<1
Magnesium	ppm	ASTM D5185(m)		<b>486</b>	438	578
Calcium	ppm	ASTM D5185(m)	3780	<b>1656</b>	1770	1342
Phosphorus	ppm	ASTM D5185(m)	1370	<b>920</b>	995	934
Zinc	ppm	ASTM D5185(m)	1500	<b>1058</b>	1040	1061
Sulfur	ppm	ASTM D5185(m)	3800	<b>2508</b>	2593	2672
Oxidation	Abs/.1mm	ASTM D7414*	>25	<b>18.9</b>	18.5	11.2
Visc @ 40°C	cSt	ASTM D7279(m)	116	▲ <b>76.0</b>	---	---
Visc @ 100°C	cSt	ASTM D7279(m)	15.4	▲ <b>11.5</b>	▲ 11.3	▲ 10.6
Viscosity Index (VI)	Scale	ASTM D2270*	140	<b>143</b>	---	---



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : PN0005930 **Received** : 09 Apr 2024  
**Lab Number** : 02627560 **Tested** : 11 Apr 2024  
**Unique Number** : 5760692 **Diagnosed** : 11 Apr 2024 - Kevin Marson  
**Test Package** : MOB 1 ( Additional Tests: FUELDILUTION, KV40, PercentFuel, VI, VISUAL )

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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.