



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

Machine Id  
**67 ORCHARD PL SCARBOROUGH BELL CANADA 481255**

Component  
**Right Diesel Engine**

Fluid  
**ESSO XD-3 EXTRA 15W40 (45 LTR)**

**RECOMMENDATION**

The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>PN0005838</b>	PN0004274	---
Sample Date		Client Info		<b>16 Feb 2024</b>	06 Dec 2022	---
Machine Age	hrs	Client Info		<b>434</b>	425	---
Oil Age	hrs	Client Info		<b>10</b>	17	---
Filter Age	hrs	Client Info		<b>10</b>	17	---
Oil Changed		Client Info		<b>Changed</b>	Changed	---
Filter Changed		Client Info		<b>Changed</b>	Changed	---
Sample Status				<b>ABNORMAL</b>	MARGINAL	---

**WEAR**

Metal levels are typical for a new component breaking in.

Iron	ppm	ASTM D5185(m)	>100	<b>1</b>	1	---
Chromium	ppm	ASTM D5185(m)	>20	<b>0</b>	0	---
Nickel	ppm	ASTM D5185(m)	>4	<b>0</b>	0	---
Titanium	ppm	ASTM D5185(m)		<b>0</b>	0	---
Silver	ppm	ASTM D5185(m)	>3	<b>0</b>	<1	---
Aluminum	ppm	ASTM D5185(m)	>20	<b>2</b>	2	---
Lead	ppm	ASTM D5185(m)	>40	<b>&lt;1</b>	<1	---
Copper	ppm	ASTM D5185(m)	>330	<b>&lt;1</b>	<1	---
Tin	ppm	ASTM D5185(m)	>15	<b>0</b>	0	---
Vanadium	ppm	ASTM D5185(m)		<b>0</b>	0	---

**CONTAMINATION**

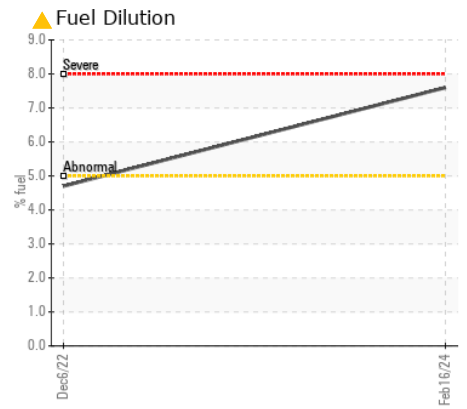
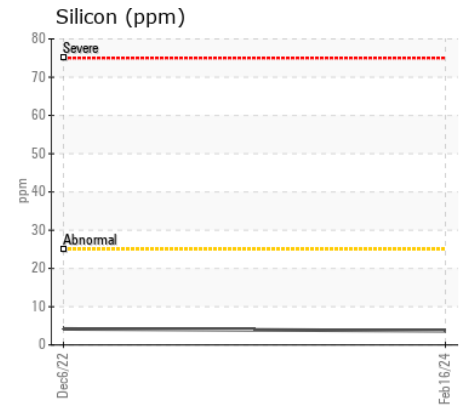
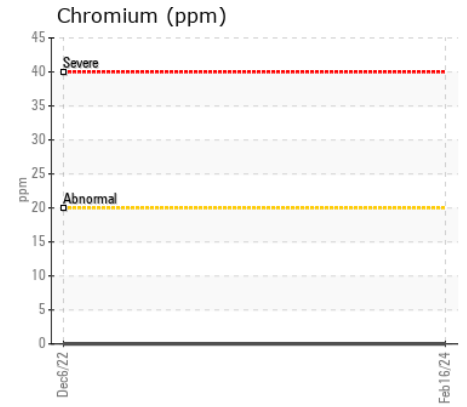
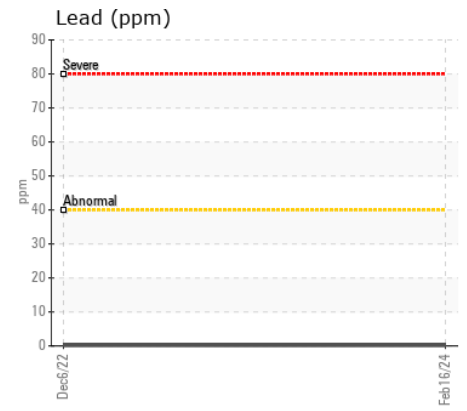
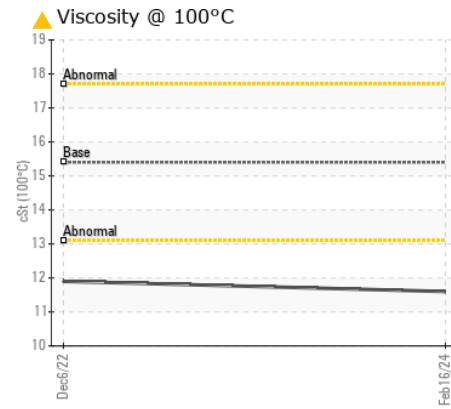
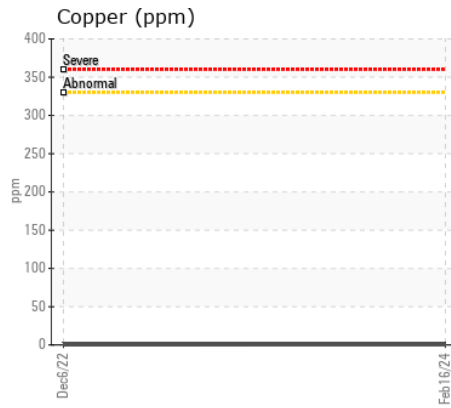
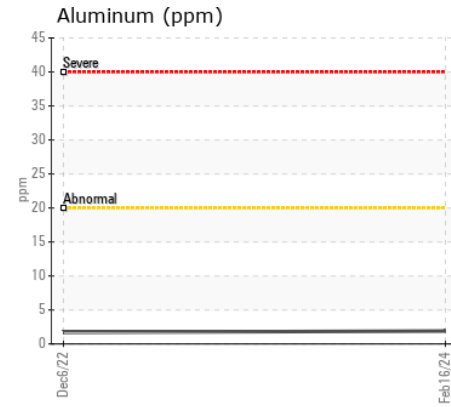
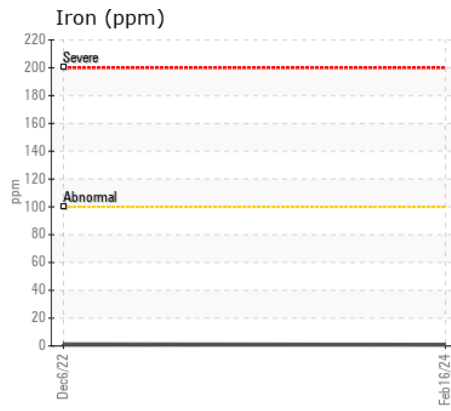
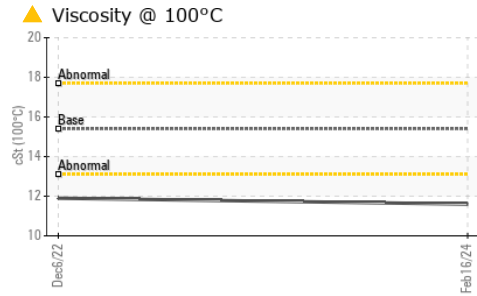
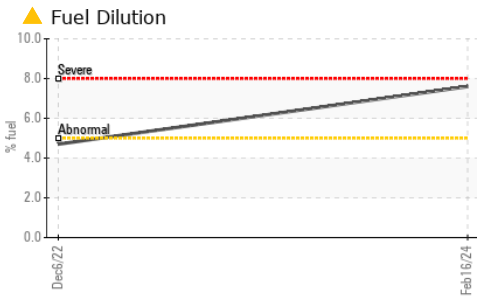
There is a moderate amount of fuel present in the oil. Tests confirm the presence of fuel in the oil.

Silicon	ppm	ASTM D5185(m)	>25	<b>4</b>	4	---
Potassium	ppm	ASTM D5185(m)	>20	<b>&lt;1</b>	0	---
Fuel	%	ASTM D7593*	>5	<b>▲ 7.6</b>	▲ 4.7	---
Water		WC Method	>0.2	<b>NEG</b>	NEG	---
Glycol		WC Method		<b>NEG</b>	NEG	---
Soot %	%	ASTM D7844*	>3	<b>0</b>	0	---
Nitration	Abs/cm	ASTM D7624*	>20	<b>7.4</b>	6.3	---
Sulfation	Abs/.1mm	ASTM D7415*	>30	<b>17.1</b>	19.8	---
Emulsified Water	scalar	Visual*	>0.2	<b>NEG</b>	NEG	---

**FLUID CONDITION**

Fuel is present in the oil and is lowering the viscosity. The oil is no longer serviceable due to the presence of contaminants.

Sodium	ppm	ASTM D5185(m)	>192	<b>&lt;1</b>	2	---
Boron	ppm	ASTM D5185(m)		<b>63</b>	42	---
Barium	ppm	ASTM D5185(m)		<b>0</b>	0	---
Molybdenum	ppm	ASTM D5185(m)		<b>10</b>	63	---
Manganese	ppm	ASTM D5185(m)		<b>0</b>	<1	---
Magnesium	ppm	ASTM D5185(m)		<b>71</b>	466	---
Calcium	ppm	ASTM D5185(m)	3780	<b>1921</b>	1639	---
Phosphorus	ppm	ASTM D5185(m)	1370	<b>951</b>	1001	---
Zinc	ppm	ASTM D5185(m)	1500	<b>1035</b>	1061	---
Sulfur	ppm	ASTM D5185(m)	3800	<b>3256</b>	2780	---
Oxidation	Abs/.1mm	ASTM D7414*	>25	<b>13.0</b>	14.8	---
Visc @ 100°C	cSt	ASTM D7279(m)	15.4	<b>▲ 11.6</b>	11.9	---



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : PN0005838 **Received** : 21 Feb 2024  
**Lab Number** : 02616985 **Tested** : 22 Feb 2024  
**Unique Number** : 5734095 **Diagnosed** : 22 Feb 2024 - Wes Davis  
**Test Package** : MOB 1 ( Additional Tests: FuelDilution, PercentFuel )

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.

**POWER STATION INC.**  
 1050 JAYSON COURT  
 MISSISSAUGA, ON  
 CA L4W 2V5  
 Contact: Brett Kinkley  
 Bkinkley@pwrstn.com  
 T:  
 F: (905)565-8544