



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

Area  
**[83861]**  
 Machine Id  
**5 WATER ST COBOCONK BELL CANADA BELL CANADA**

Component  
**Rear Diesel Engine**  
 Fluid  
**ESSO XD-3 EXTRA 15W40 (7 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>PN0005645</b>	---	---
Sample Date		Client Info		<b>17 Jan 2024</b>	---	---
Machine Age	hrs	Client Info		<b>114</b>	---	---
Oil Age	hrs	Client Info		<b>0</b>	---	---
Filter Age	hrs	Client Info		<b>0</b>	---	---
Oil Changed		Client Info		<b>Changed</b>	---	---
Filter Changed		Client Info		<b>Not Chngd</b>	---	---
Sample Status				<b>ABNORMAL</b>	---	---

**WEAR**

Metal levels are typical for a new component breaking in.

Iron	ppm	ASTM D5185(m)	>250	<b>15</b>	---	---
Chromium	ppm	ASTM D5185(m)	>10	<b>&lt;1</b>	---	---
Nickel	ppm	ASTM D5185(m)	>5	<b>&lt;1</b>	---	---
Titanium	ppm	ASTM D5185(m)		<b>0</b>	---	---
Silver	ppm	ASTM D5185(m)	>3	<b>&lt;1</b>	---	---
Aluminum	ppm	ASTM D5185(m)	>35	<b>2</b>	---	---
Lead	ppm	ASTM D5185(m)	>100	<b>&lt;1</b>	---	---
Copper	ppm	ASTM D5185(m)	>60	<b>7</b>	---	---
Tin	ppm	ASTM D5185(m)	>5	<b>0</b>	---	---
Vanadium	ppm	ASTM D5185(m)		<b>0</b>	---	---
White Metal	scalar	Visual*	NONE	<b>VLITE</b>	---	---
Yellow Metal	scalar	Visual*	NONE	<b>NONE</b>	---	---

**CONTAMINATION**

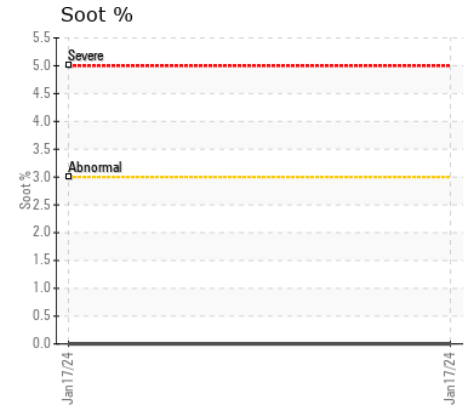
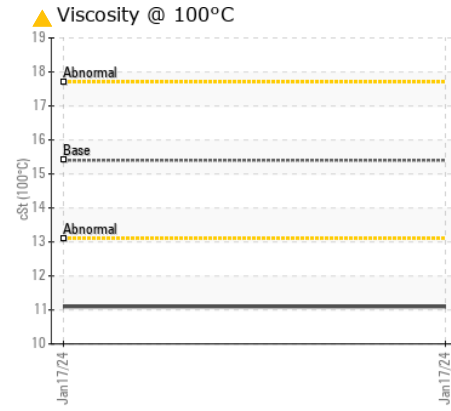
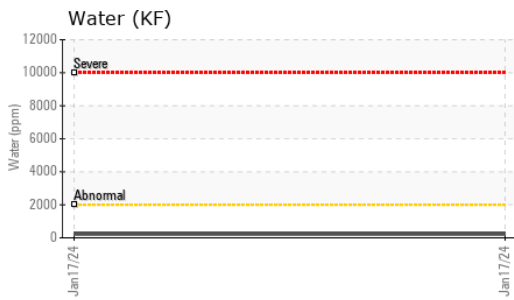
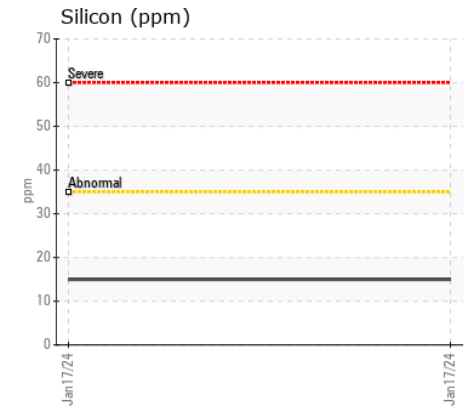
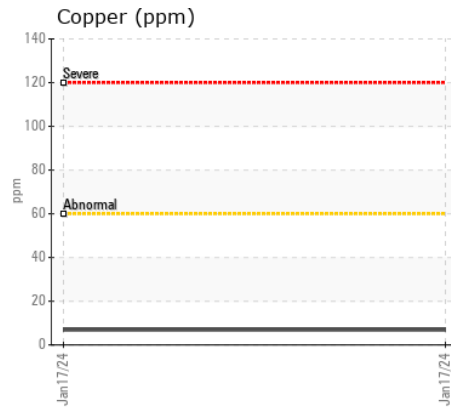
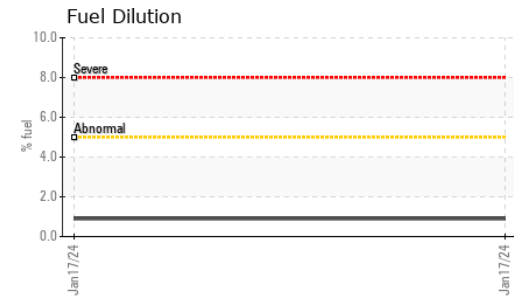
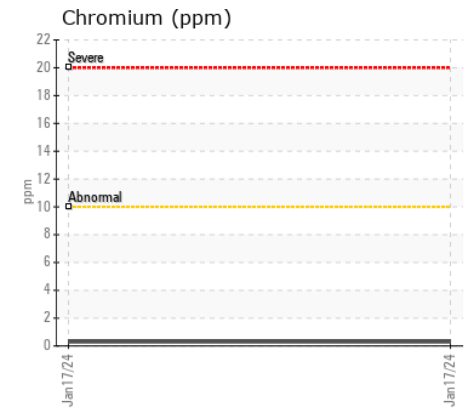
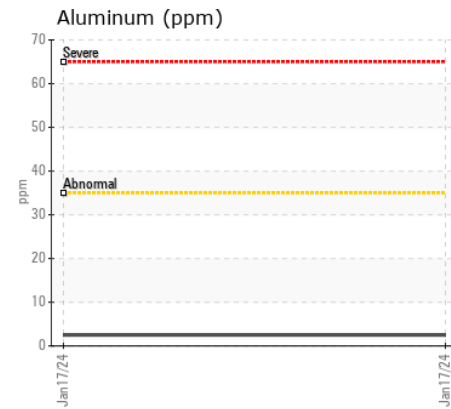
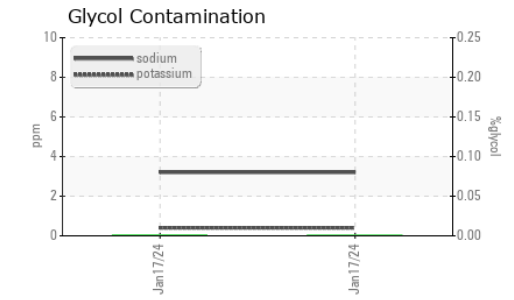
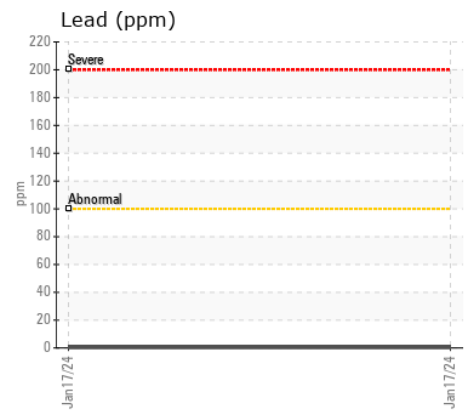
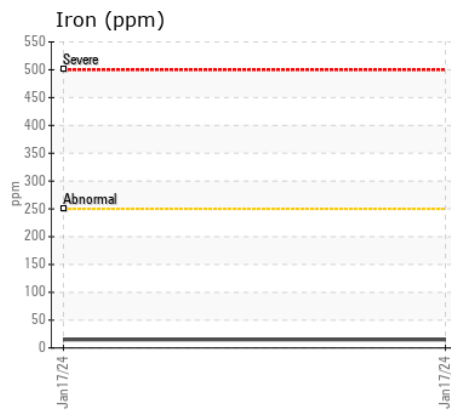
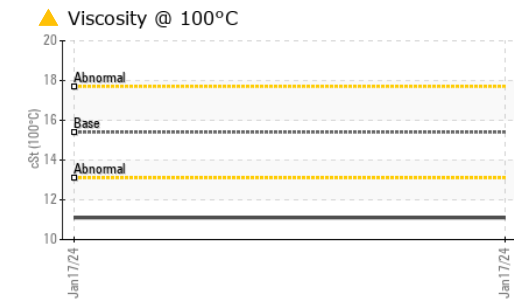
Fuel content negligible. The water content is negligible. There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>35	<b>15</b>	---	---
Potassium	ppm	ASTM D5185(m)	>20	<b>&lt;1</b>	---	---
Fuel	%	ASTM D7593*	>5	<b>0.9</b>	---	---
Water	%	ASTM D6304*	>0.2	<b>0.022</b>	---	---
ppm Water	ppm	ASTM D6304*	>2000	<b>226</b>	---	---
Glycol	%	ASTM D7922*		<b>0.0</b>	---	---
Soot %	%	ASTM D7844*	>3	<b>0</b>	---	---
Nitration	Abs/cm	ASTM D7624*	>20	<b>5.3</b>	---	---
Sulfation	Abs/.1mm	ASTM D7415*	>30	<b>22.0</b>	---	---
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*	>0.2	<b>.2%</b>	---	---

**FLUID CONDITION**

Viscosity of sample indicates oil is within SAE 30 range, advise investigate. The condition of the oil is acceptable for the time in service.

Sodium	ppm	ASTM D5185(m)	>192	<b>3</b>	---	---
Boron	ppm	ASTM D5185(m)		<b>47</b>	---	---
Barium	ppm	ASTM D5185(m)		<b>2</b>	---	---
Molybdenum	ppm	ASTM D5185(m)		<b>35</b>	---	---
Manganese	ppm	ASTM D5185(m)		<b>6</b>	---	---
Magnesium	ppm	ASTM D5185(m)		<b>431</b>	---	---
Calcium	ppm	ASTM D5185(m)	3780	<b>1687</b>	---	---
Phosphorus	ppm	ASTM D5185(m)	1370	<b>908</b>	---	---
Zinc	ppm	ASTM D5185(m)	1500	<b>1025</b>	---	---
Sulfur	ppm	ASTM D5185(m)	3800	<b>2607</b>	---	---
Oxidation	Abs/.1mm	ASTM D7414*	>25	<b>18.3</b>	---	---
Visc @ 100°C	cSt	ASTM D7279(m)	15.4	<b>▲ 11.1</b>	---	---



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : PN0005645 **Received** : 19 Jan 2024  
**Lab Number** : 02609879 **Diagnosed** : 22 Jan 2024  
**Unique Number** : 5710965 **Diagnostician** : Kevin Marson  
**Test Package** : MOB 1 ( Additional Tests: FuelDilution, Glycol, KF, PercentFuel, Visual )

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

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.