



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

Machine Id  
**105 WELLINGTON ST CAMBRIDGE BELL CANADA 12VA082272**

Component  
**Rear Diesel Engine**

Fluid  
**ESSO XD-3 EXTRA SAE 40 (35 LTR)**

**RECOMMENDATION**

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>PN0005793</b>	PN0004739	PN0003371
Sample Date		Client Info		<b>04 Mar 2024</b>	29 Mar 2023	10 Mar 2022
Machine Age	hrs	Client Info		<b>861</b>	843	810
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>Changed</b>	Changed	Changed
Filter Changed		Client Info		<b>Not Changd</b>	Not Changd	Changed
Sample Status				<b>NORMAL</b>	NORMAL	NORMAL

**WEAR**

Metal levels are typical for a new component breaking in.

Iron	ppm	ASTM D5185(m)	>200	<b>11</b>	6	6
Chromium	ppm	ASTM D5185(m)	>20	<b>&lt;1</b>	0	<1
Nickel	ppm	ASTM D5185(m)	>2	<b>&lt;1</b>	<1	<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)	>30	<b>&lt;1</b>	<1	<1
Lead	ppm	ASTM D5185(m)	>30	<b>1</b>	1	1
Copper	ppm	ASTM D5185(m)	>30	<b>1</b>	<1	<1
Tin	ppm	ASTM D5185(m)	>15	<b>3</b>	1	1
Vanadium	ppm	ASTM D5185(m)		<b>0</b>	0	0

**CONTAMINATION**

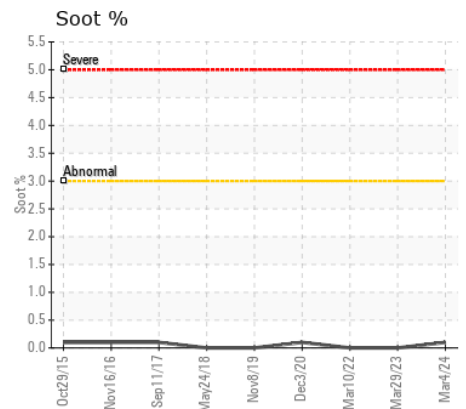
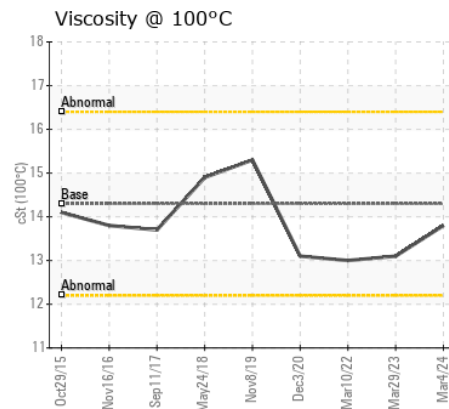
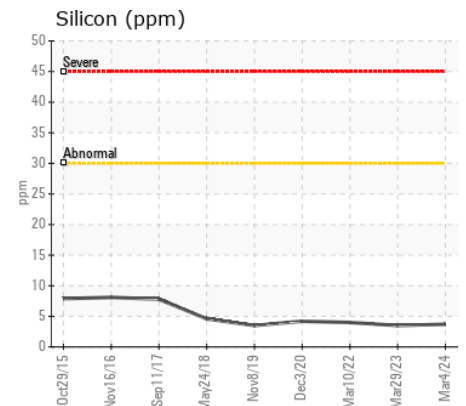
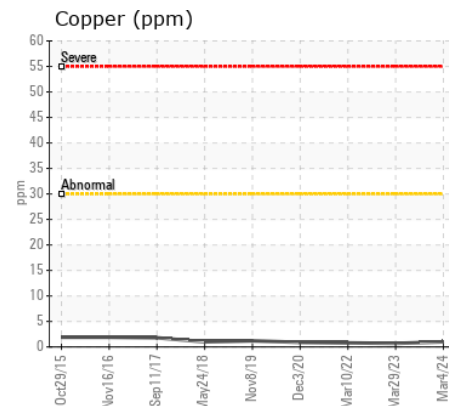
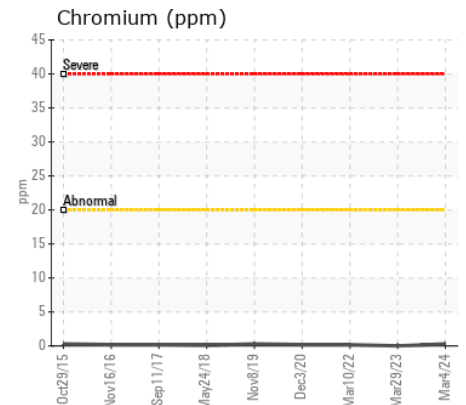
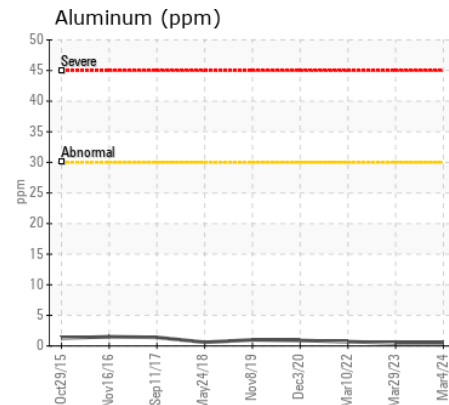
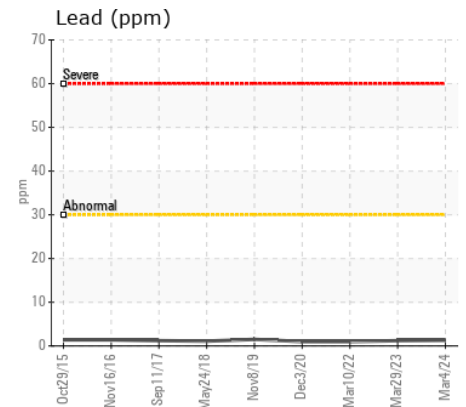
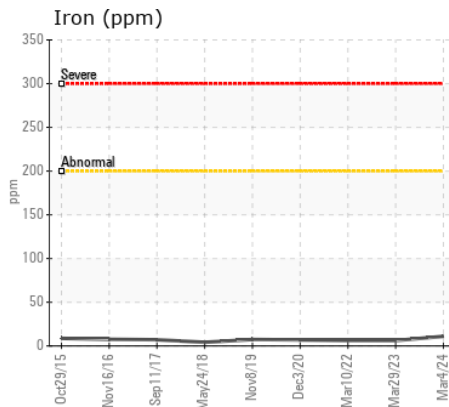
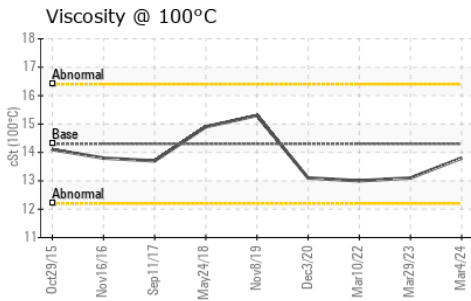
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>30	<b>4</b>	4	4
Potassium	ppm	ASTM D5185(m)	>20	<b>&lt;1</b>	2	<1
Fuel		WC Method	>3.0	<b>&lt;1.0</b>	<1.0	<1.0
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>3.5</b>	4.0	3.5
Sulfation	Abs/.1mm	ASTM D7415*	>30	<b>13.0</b>	16.3	14.2
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)		<b>4</b>	6	7
Boron	ppm	ASTM D5185(m)		<b>4</b>	14	14
Barium	ppm	ASTM D5185(m)		<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185(m)		<b>3</b>	12	13
Manganese	ppm	ASTM D5185(m)		<b>0</b>	<1	0
Magnesium	ppm	ASTM D5185(m)		<b>703</b>	87	67
Calcium	ppm	ASTM D5185(m)	2550	<b>1660</b>	3580	3167
Phosphorus	ppm	ASTM D5185(m)	1000	<b>997</b>	775	802
Zinc	ppm	ASTM D5185(m)	1120	<b>1092</b>	767	856
Sulfur	ppm	ASTM D5185(m)		<b>2668</b>	2430	2448
Oxidation	Abs/.1mm	ASTM D7414*	>25	<b>5.9</b>	5.5	5.4
Visc @ 100°C	cSt	ASTM D7279(m)	14.3	<b>13.8</b>	13.1	13.0



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : PN0005793 **Received** : 07 Mar 2024  
**Lab Number** : 02620506 **Tested** : 07 Mar 2024  
**Unique Number** : 5737616 **Diagnosed** : 07 Mar 2024 - Wes Davis  
**Test Package** : MOB 1

**POWER STATION INC.**  
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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.