



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

Machine Id  
**20 HUNTER ST W HAMILTON BELL CANADA 16VF011465**

Component  
**Right Diesel Engine**

Fluid  
**ESSO XD-3 EXTRA SAE 40 (60 LTR)**

**RECOMMENDATION**

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>PN0005824</b>	PN0004415	PN0003439
Sample Date		Client Info		<b>20 Feb 2024</b>	13 Mar 2023	30 Mar 2022
Machine Age	hrs	Client Info		<b>839</b>	817	791
Oil Age	hrs	Client Info		<b>21</b>	0	0
Filter Age	hrs	Client Info		<b>21</b>	0	0
Oil Changed		Client Info		<b>Changed</b>	Changed	Changed
Filter Changed		Client Info		<b>Changed</b>	Changed	Changed
Sample Status				<b>NORMAL</b>	NORMAL	ABNORMAL

**WEAR**

Metal levels are typical for a new component breaking in.

Iron	ppm	ASTM D5185(m)	>200	<b>6</b>	10	19
Chromium	ppm	ASTM D5185(m)	>20	<b>&lt;1</b>	<1	1
Nickel	ppm	ASTM D5185(m)	>2	<b>&lt;1</b>	<1	0
Titanium	ppm	ASTM D5185(m)	>2	<b>0</b>	0	0
Silver	ppm	ASTM D5185(m)	>2	<b>0</b>	0	<1
Aluminum	ppm	ASTM D5185(m)	>30	<b>1</b>	2	5
Lead	ppm	ASTM D5185(m)	>30	<b>1</b>	2	4
Copper	ppm	ASTM D5185(m)	>30	<b>2</b>	4	13
Tin	ppm	ASTM D5185(m)	>15	<b>1</b>	3	6
Vanadium	ppm	ASTM D5185(m)		<b>0</b>	0	0

**CONTAMINATION**

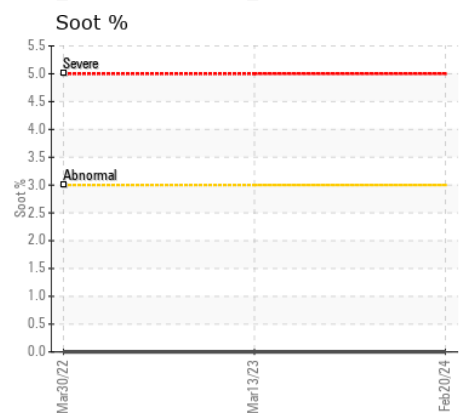
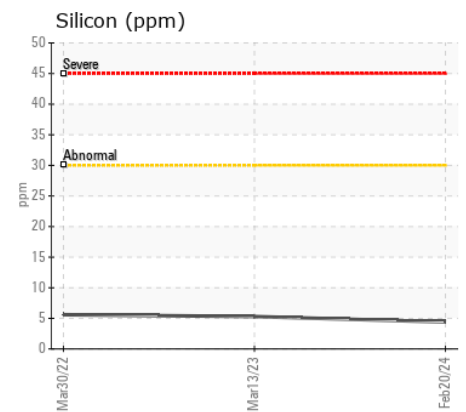
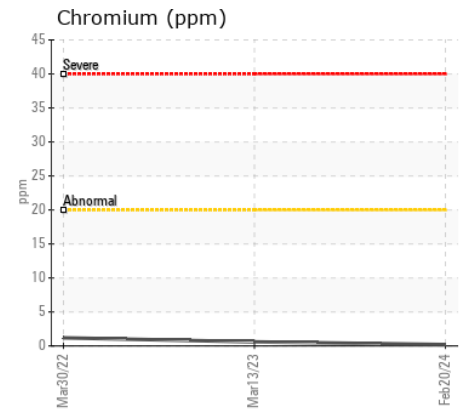
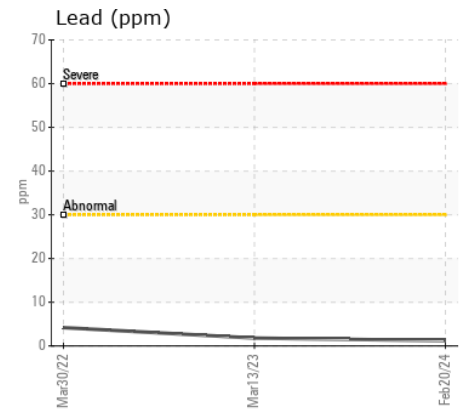
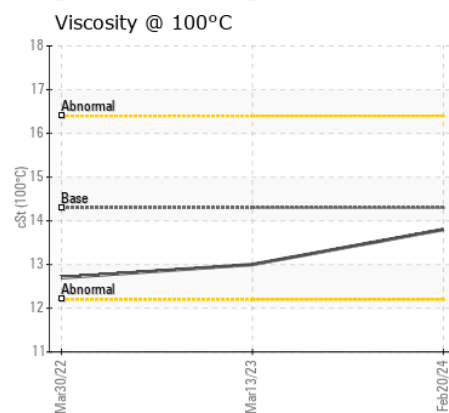
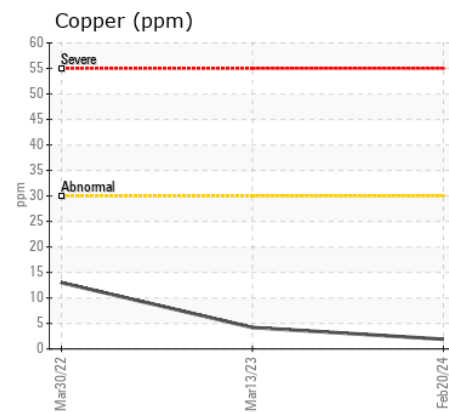
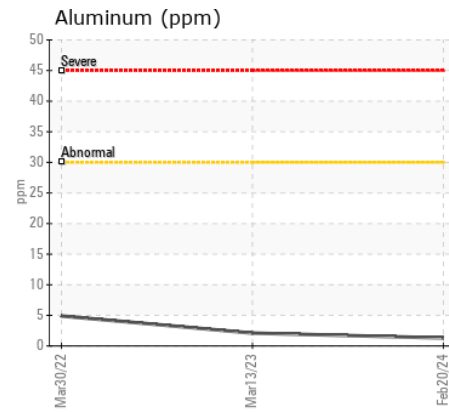
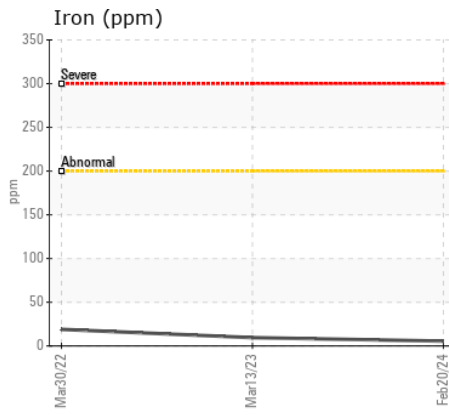
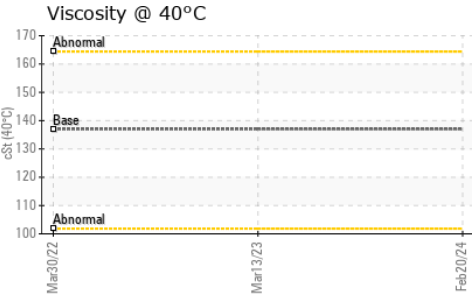
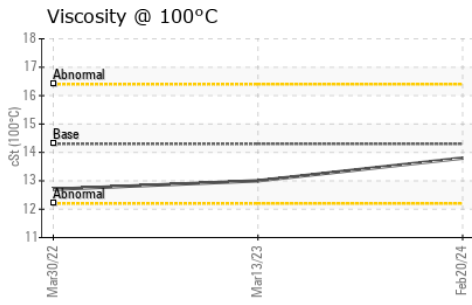
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>30	<b>4</b>	5	6
Potassium	ppm	ASTM D5185(m)	>20	<b>&lt;1</b>	<1	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>	0.0	▲ 0.089
Soot %	%	ASTM D7844*	>3	<b>0</b>	0	0
Nitration	Abs/cm	ASTM D7624*	>20	<b>3.3</b>	4.1	2.8
Sulfation	Abs/.1mm	ASTM D7415*	>30	<b>12.7</b>	16.8	13.0
Emulsified Water	scalar	Visual*	>0.2	<b>NEG</b>	NEG	.2%

**FLUID CONDITION**

The condition of the oil is acceptable for the time in service.

Sodium	ppm	ASTM D5185(m)		<b>2</b>	5	16
Boron	ppm	ASTM D5185(m)		<b>4</b>	14	16
Barium	ppm	ASTM D5185(m)		<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185(m)		<b>3</b>	11	11
Manganese	ppm	ASTM D5185(m)		<b>0</b>	<1	<1
Magnesium	ppm	ASTM D5185(m)		<b>677</b>	147	69
Calcium	ppm	ASTM D5185(m)	2550	<b>1640</b>	3279	2809
Phosphorus	ppm	ASTM D5185(m)	1000	<b>974</b>	802	782
Zinc	ppm	ASTM D5185(m)	1120	<b>1070</b>	811	854
Sulfur	ppm	ASTM D5185(m)		<b>3164</b>	2994	2849
Oxidation	Abs/.1mm	ASTM D7414*	>25	<b>5.6</b>	5.7	4.2
Visc @ 40°C	cSt	ASTM D7279(m)	137	<b>125</b>	---	---
Visc @ 100°C	cSt	ASTM D7279(m)	14.3	<b>13.8</b>	13.0	12.7
Viscosity Index (VI)	Scale	ASTM D2270*	102	<b>107</b>	---	---



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : PN0005824 **Received** : 29 Feb 2024  
**Lab Number** : 02618933 **Tested** : 29 Feb 2024  
**Unique Number** : 5736043 **Diagnosed** : 29 Feb 2024 - Wes Davis  
**Test Package** : MOB 1 ( Additional Tests: KV40, VI )

**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.