



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

Machine Id  
**71 HARVEY ST, TILSONBURG BELL CANADA 6A0399375**

Component  
**Right Diesel Engine**

Fluid  
**ESSO XD-3 EXTRA SAE 40 (24 LTR)**

**RECOMMENDATION**

Confirm the source of the lubricant being utilized for top-up/fill.  
 Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>PN0005896</b>	PN0002287	PN0001021
Sample Date		Client Info		<b>23 Feb 2024</b>	10 Mar 2021	28 Apr 2020
Machine Age	hrs	Client Info		<b>913</b>	836	814
Oil Age	hrs	Client Info		<b>34</b>	23	52
Filter Age	hrs	Client Info		<b>34</b>	23	52
Oil Changed		Client Info		<b>Changed</b>	Changed	Changed
Filter Changed		Client Info		<b>Changed</b>	Changed	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>2</b>	2	2
Chromium	ppm	ASTM D5185(m)	>20	<b>0</b>	0	<1
Nickel	ppm	ASTM D5185(m)	>2	<b>&lt;1</b>	0	<1
Titanium	ppm	ASTM D5185(m)	>2	<b>0</b>	0	<1
Silver	ppm	ASTM D5185(m)	>2	<b>0</b>	<1	<1
Aluminum	ppm	ASTM D5185(m)	>30	<b>&lt;1</b>	<1	<1
Lead	ppm	ASTM D5185(m)	>30	<b>&lt;1</b>	<1	<1
Copper	ppm	ASTM D5185(m)	>30	<b>&lt;1</b>	1	2
Tin	ppm	ASTM D5185(m)	>15	<b>&lt;1</b>	<1	<1
Vanadium	ppm	ASTM D5185(m)		<b>0</b>	0	0

**CONTAMINATION**

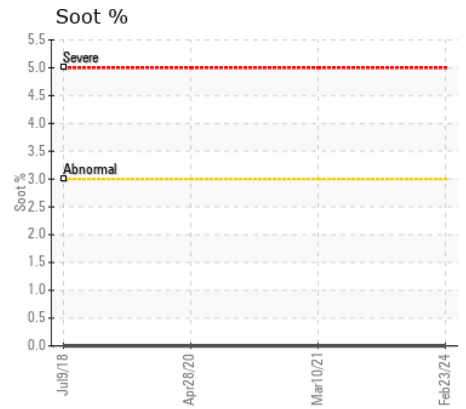
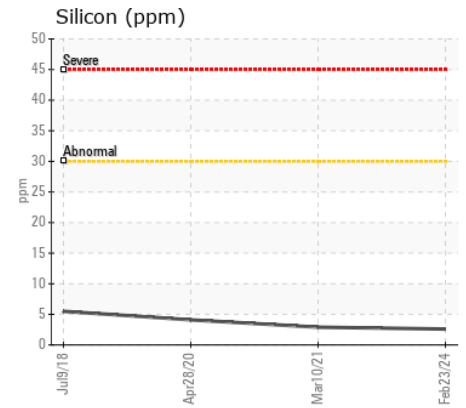
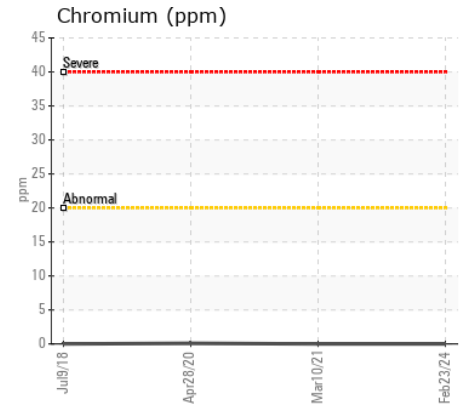
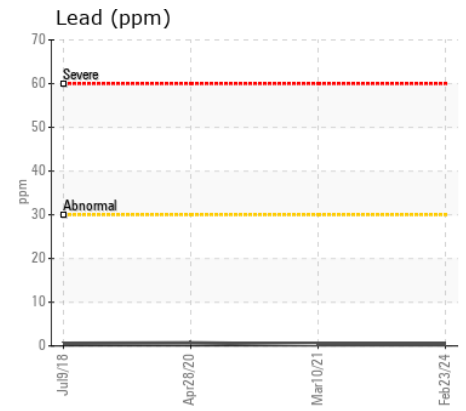
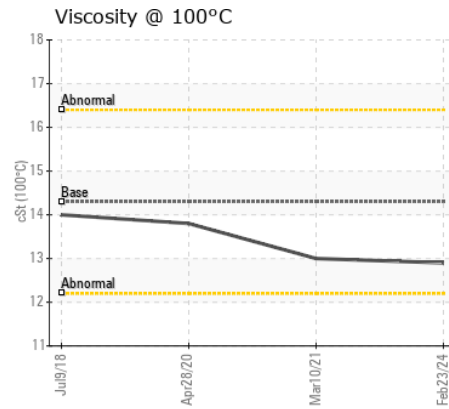
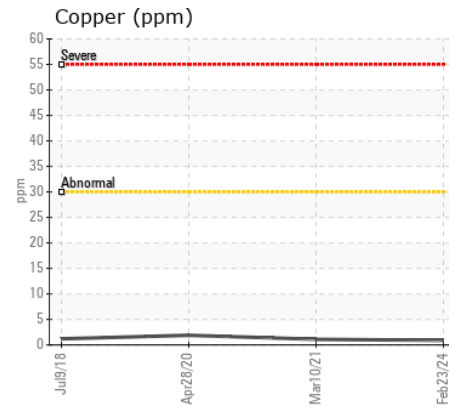
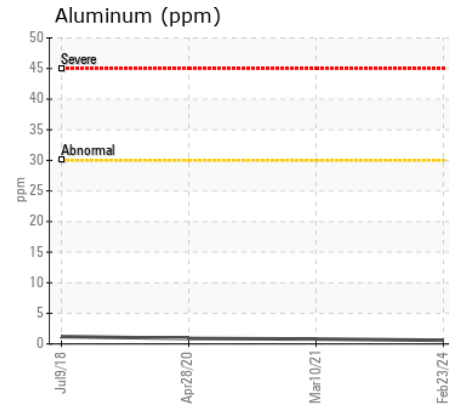
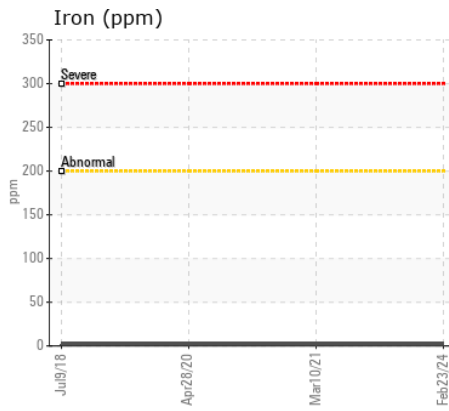
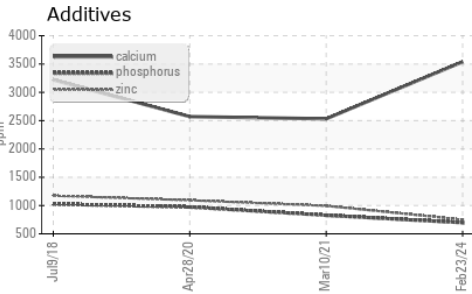
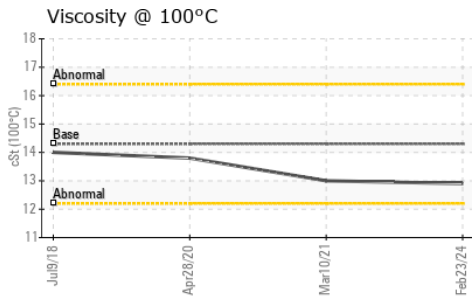
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>30	<b>3</b>	3	4
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>	NEG	0.0
Soot %	%	ASTM D7844*	>3	<b>0</b>	0	0
Nitration	Abs/cm	ASTM D7624*	>20	<b>3.5</b>	3.3	4.5
Sulfation	Abs/.1mm	ASTM D7415*	>30	<b>13.1</b>	13.7	18.0
Emulsified Water	scalar	Visual*	>0.2	<b>NEG</b>	NEG	NEG

**FLUID CONDITION**

Additive levels indicate the addition of a different brand, or type of oil.  
 The condition of the oil is acceptable for the time in service.

Sodium	ppm	ASTM D5185(m)		<b>5</b>	32	128
Boron	ppm	ASTM D5185(m)		<b>14</b>	11	19
Barium	ppm	ASTM D5185(m)		<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185(m)		<b>7</b>	11	8
Manganese	ppm	ASTM D5185(m)		<b>0</b>	<1	<1
Magnesium	ppm	ASTM D5185(m)		<b>64</b>	88	57
Calcium	ppm	ASTM D5185(m)	2550	<b>3540</b>	2532	2571
Phosphorus	ppm	ASTM D5185(m)	1000	<b>697</b>	827	973
Zinc	ppm	ASTM D5185(m)	1120	<b>750</b>	994	1093
Sulfur	ppm	ASTM D5185(m)		<b>2341</b>	2564	2770
Oxidation	Abs/.1mm	ASTM D7414*	>25	<b>4.6</b>	5.4	6.4
Visc @ 100°C	cSt	ASTM D7279(m)	14.3	<b>12.9</b>	13.0	13.8



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : PN0005896 **Received** : 07 Mar 2024  
**Lab Number** : 02620468 **Tested** : 07 Mar 2024  
**Unique Number** : 5737578 **Diagnosed** : 07 Mar 2024 - Kevin Marson  
**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.