



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

Machine Id  
**222 NEWKIRK RD RICHMOND HILL BJC OJ2612**

Component  
**Right Diesel Engine**

Fluid  
**ESSO XD-3 EXTRA 15W40 (30 LTR)**

**RECOMMENDATION**

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>PN0005918</b>	PN0004596	PN0003357
Sample Date		Client Info		<b>25 Mar 2024</b>	06 Mar 2023	03 Oct 2021
Machine Age	hrs	Client Info		<b>171</b>	156	144
Oil Age	hrs	Client Info		<b>15</b>	12	13
Filter Age	hrs	Client Info		<b>15</b>	12	13
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)	>100	<b>&lt;1</b>	<1	1
Chromium	ppm	ASTM D5185(m)	>20	<b>0</b>	0	0
Nickel	ppm	ASTM D5185(m)	>4	<b>0</b>	0	<1
Titanium	ppm	ASTM D5185(m)		<b>0</b>	<1	0
Silver	ppm	ASTM D5185(m)	>3	<b>0</b>	0	2
Aluminum	ppm	ASTM D5185(m)	>20	<b>1</b>	3	3
Lead	ppm	ASTM D5185(m)	>40	<b>0</b>	0	<1
Copper	ppm	ASTM D5185(m)	>330	<b>1</b>	1	1
Tin	ppm	ASTM D5185(m)	>15	<b>0</b>	0	<1
Vanadium	ppm	ASTM D5185(m)		<b>0</b>	0	0

**CONTAMINATION**

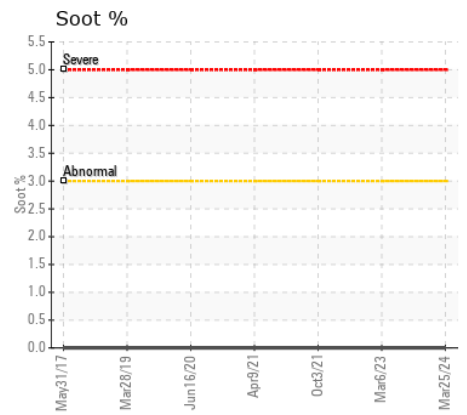
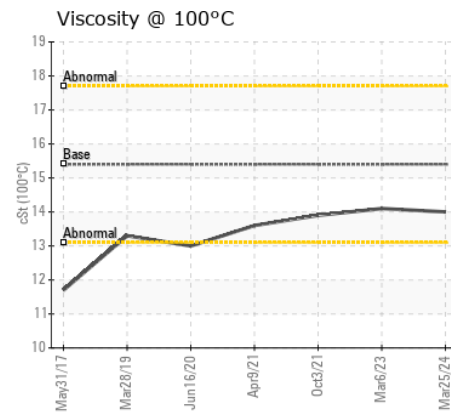
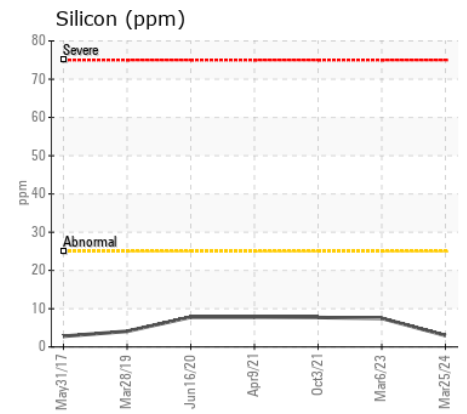
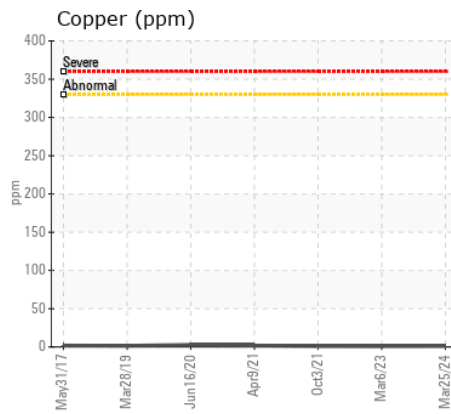
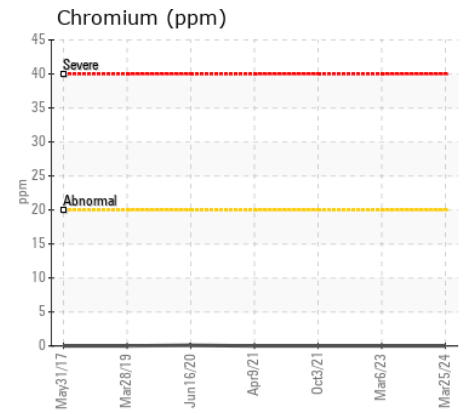
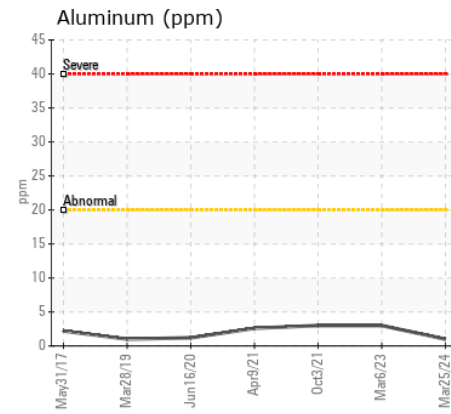
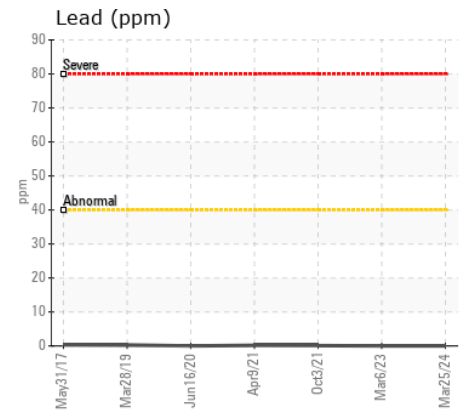
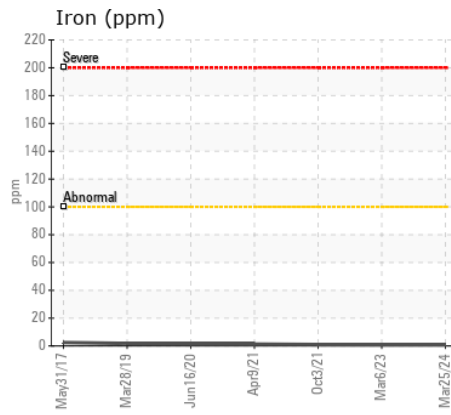
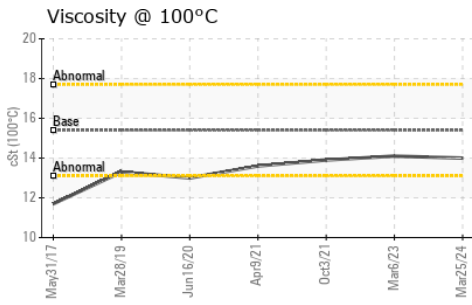
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>25	<b>3</b>	8	8
Potassium	ppm	ASTM D5185(m)	>20	<b>0</b>	<1	1
Fuel		WC Method	>5	<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</b>	0	0
Nitration	Abs/cm	ASTM D7624*	>20	<b>5.1</b>	5.2	5.3
Sulfation	Abs/.1mm	ASTM D7415*	>30	<b>18.0</b>	16.6	15.9
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)	>192	<b>2</b>	3	3
Boron	ppm	ASTM D5185(m)		<b>24</b>	77	76
Barium	ppm	ASTM D5185(m)		<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185(m)		<b>57</b>	85	84
Manganese	ppm	ASTM D5185(m)		<b>0</b>	0	0
Magnesium	ppm	ASTM D5185(m)		<b>731</b>	22	46
Calcium	ppm	ASTM D5185(m)	3780	<b>1343</b>	2238	2177
Phosphorus	ppm	ASTM D5185(m)	1370	<b>975</b>	1102	1046
Zinc	ppm	ASTM D5185(m)	1500	<b>1119</b>	1150	1156
Sulfur	ppm	ASTM D5185(m)	3800	<b>2672</b>	3300	3261
Oxidation	Abs/.1mm	ASTM D7414*	>25	<b>13.7</b>	8.5	9.6
Visc @ 100°C	cSt	ASTM D7279(m)	15.4	<b>14.0</b>	14.1	13.9



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : PN0005918 **Received** : 01 Apr 2024  
**Lab Number** : 02625600 **Tested** : 01 Apr 2024  
**Unique Number** : 5750719 **Diagnosed** : 01 Apr 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.