



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

Area

[86974]

Machine Id

455 PHILLIPS ST WATERLOO UNIT 6 COLLIERS 433667

Component

Left 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>PN0006290</b>	PN0003813	PN0002558
Sample Date		Client Info		<b>14 Jun 2024</b>	12 Jul 2022	11 Jun 2021
Machine Age	hrs	Client Info		<b>237</b>	220	203
Oil Age	hrs	Client Info		<b>7</b>	0	7
Filter Age	hrs	Client Info		<b>7</b>	0	7
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>1</b>	4	1
Chromium	ppm	ASTM D5185(m)	>20	<b>0</b>	0	0
Nickel	ppm	ASTM D5185(m)	>4	<b>&lt;1</b>	0	<1
Titanium	ppm	ASTM D5185(m)		<b>0</b>	0	0
Silver	ppm	ASTM D5185(m)	>3	<b>0</b>	0	<1
Aluminum	ppm	ASTM D5185(m)	>20	<b>&lt;1</b>	2	3
Lead	ppm	ASTM D5185(m)	>40	<b>0</b>	<1	<1
Copper	ppm	ASTM D5185(m)	>330	<b>&lt;1</b>	<1	<1
Tin	ppm	ASTM D5185(m)	>15	<b>0</b>	<1	0
Vanadium	ppm	ASTM D5185(m)		<b>0</b>	0	<1

**CONTAMINATION**

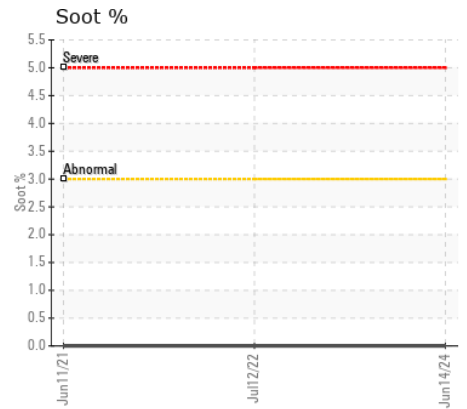
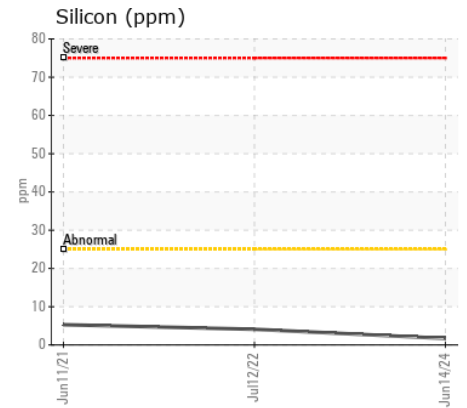
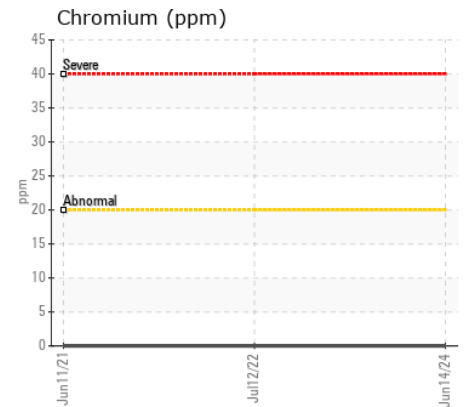
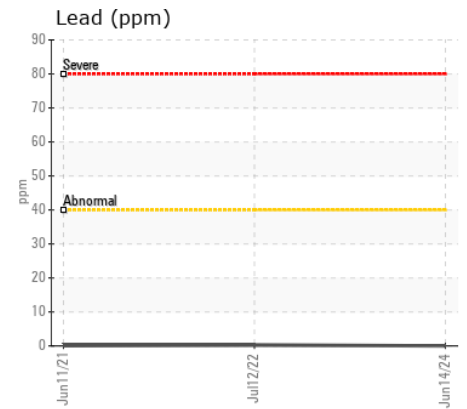
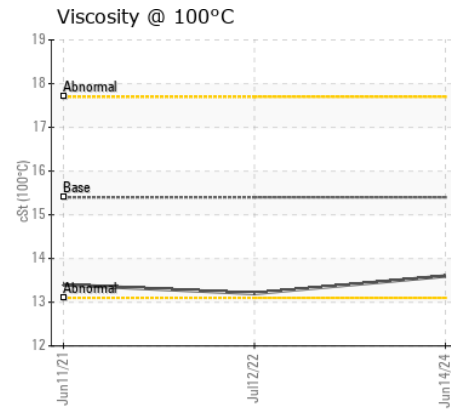
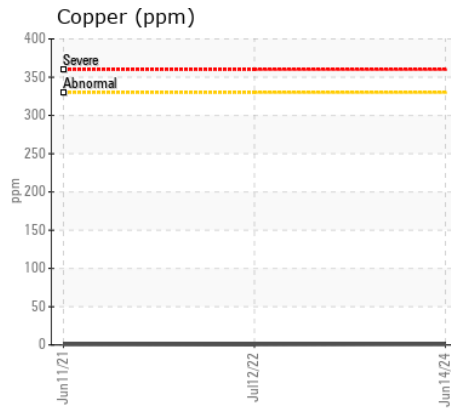
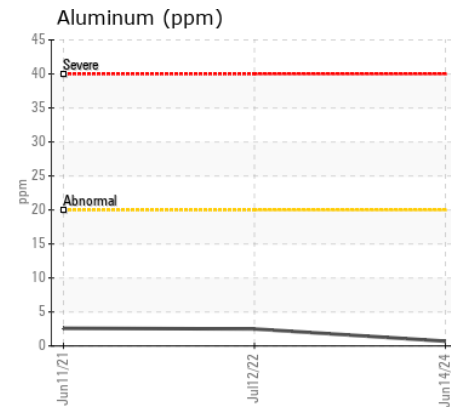
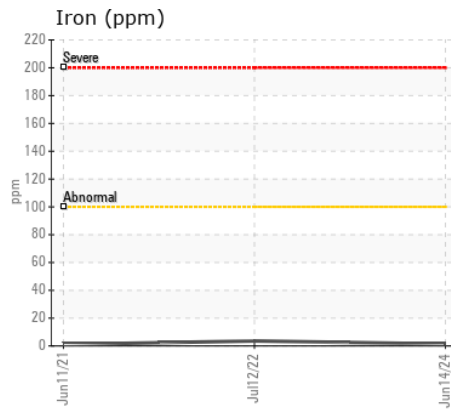
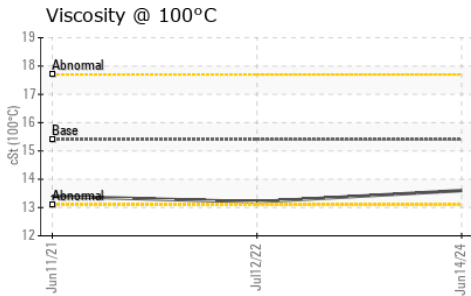
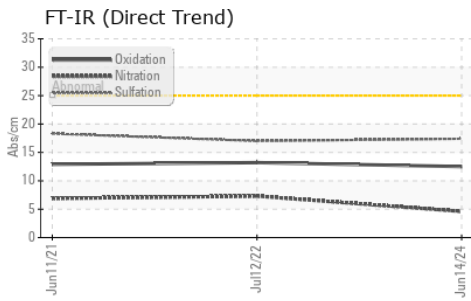
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>25	<b>2</b>	4	5
Potassium	ppm	ASTM D5185(m)	>20	<b>&lt;1</b>	5	<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>4.6</b>	7.3	6.9
Sulfation	Abs/.1mm	ASTM D7415*	>30	<b>17.4</b>	17.0	18.3
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>1</b>	2	3
Boron	ppm	ASTM D5185(m)		<b>4</b>	73	69
Barium	ppm	ASTM D5185(m)		<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185(m)		<b>52</b>	80	75
Manganese	ppm	ASTM D5185(m)		<b>0</b>	0	<1
Magnesium	ppm	ASTM D5185(m)		<b>847</b>	38	59
Calcium	ppm	ASTM D5185(m)	3780	<b>1112</b>	2143	2021
Phosphorus	ppm	ASTM D5185(m)	1370	<b>983</b>	969	971
Zinc	ppm	ASTM D5185(m)	1500	<b>1121</b>	1106	1125
Sulfur	ppm	ASTM D5185(m)	3800	<b>2549</b>	3199	3173
Oxidation	Abs/.1mm	ASTM D7414*	>25	<b>12.5</b>	13.2	12.9
Visc @ 100°C	cSt	ASTM D7279(m)	15.4	<b>13.6</b>	13.2	13.4



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : PN0006290 **Received** : 24 Jun 2024  
**Lab Number** : 02643645 **Tested** : 24 Jun 2024  
**Unique Number** : 5801184 **Diagnosed** : 24 Jun 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.