



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

Area

**[86647]**

Machine Id

**16860 MOUNT HOPE PALGRAVE WATER REGION OF PEEL 46612289**

Component

**Rear Diesel Engine**

Fluid

**ESSO XD-3 EXTRA 15W40 (20 LTR)**

**RECOMMENDATION**

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>PN0006078</b>	PN0004821	PN0000612
Sample Date		Client Info		<b>04 Jun 2024</b>	06 Jun 2023	05 Nov 2019
Machine Age	hrs	Client Info		<b>553</b>	529	413
Oil Age	hrs	Client Info		<b>529</b>	0	0
Filter Age	hrs	Client Info		<b>529</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	NORMAL

**WEAR**

Metal levels are typical for a new component breaking in.

Iron	ppm	ASTM D5185(m)	>90	<b>2</b>	2	2
Chromium	ppm	ASTM D5185(m)	>20	<b>0</b>	0	<1
Nickel	ppm	ASTM D5185(m)	>2	<b>0</b>	0	0
Titanium	ppm	ASTM D5185(m)	>2	<b>0</b>	0	<1
Silver	ppm	ASTM D5185(m)	>2	<b>0</b>	0	0
Aluminum	ppm	ASTM D5185(m)	>20	<b>&lt;1</b>	2	<1
Lead	ppm	ASTM D5185(m)	>40	<b>0</b>	0	0
Copper	ppm	ASTM D5185(m)	>330	<b>&lt;1</b>	0	<1
Tin	ppm	ASTM D5185(m)	>15	<b>0</b>	0	0
Vanadium	ppm	ASTM D5185(m)		<b>0</b>	0	0

**CONTAMINATION**

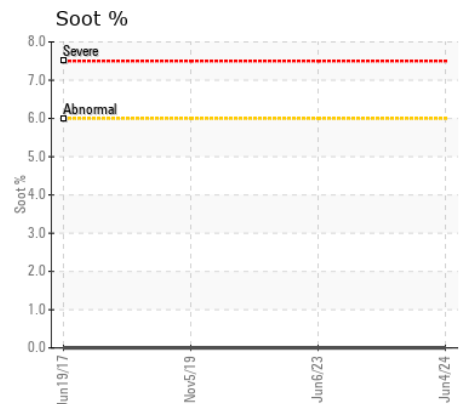
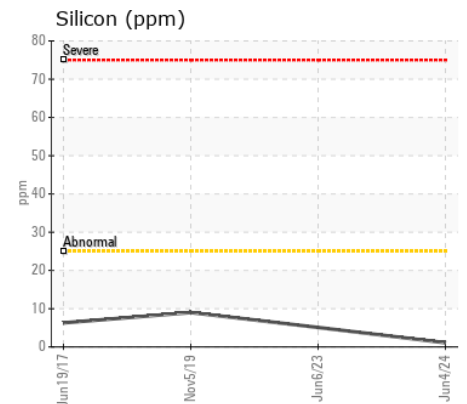
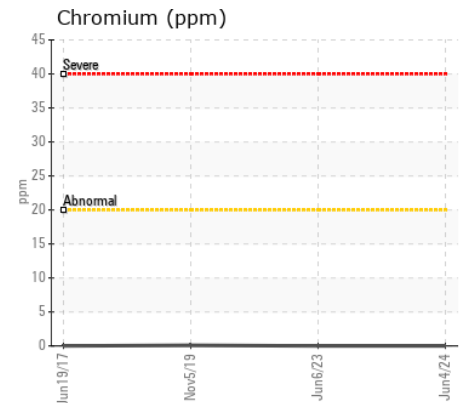
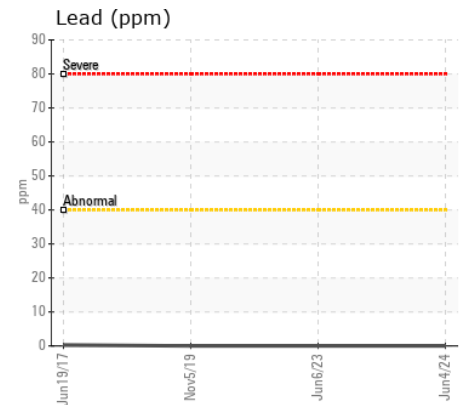
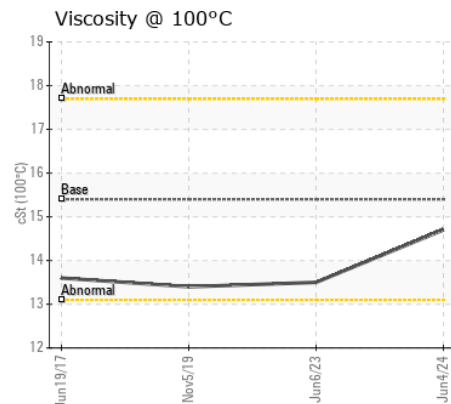
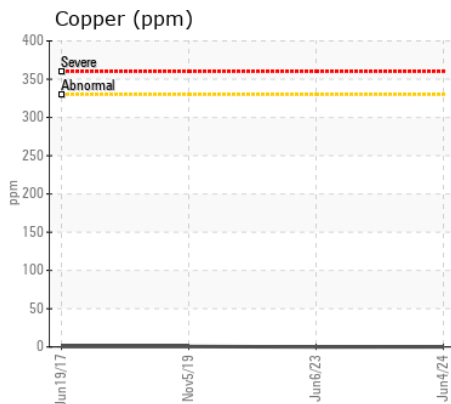
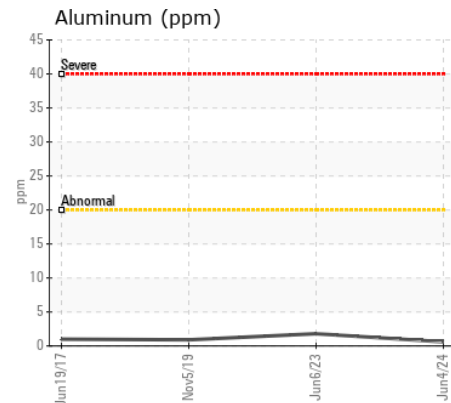
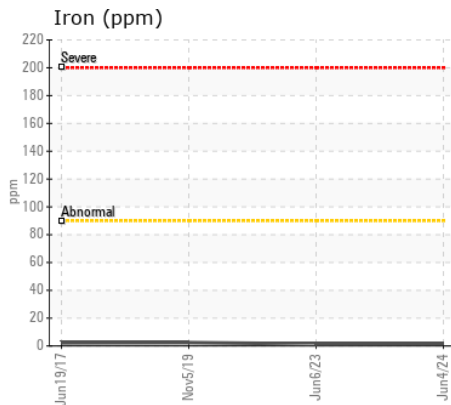
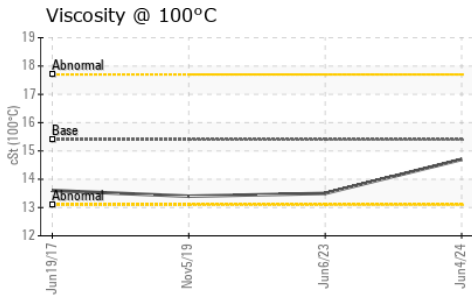
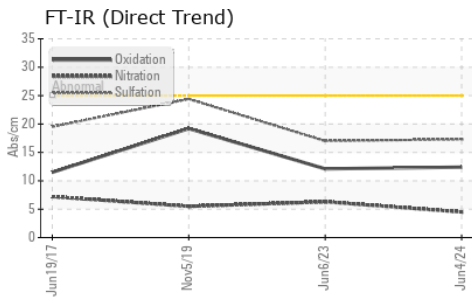
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>25	<b>1</b>	5	9
Potassium	ppm	ASTM D5185(m)	>20	<b>0</b>	0	<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*	>6	<b>0</b>	0	0
Nitration	Abs/cm	ASTM D7624*	>20	<b>4.5</b>	6.3	5.5
Sulfation	Abs/.1mm	ASTM D7415*	>30	<b>17.3</b>	17.0	24.4
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>	1	2
Boron	ppm	ASTM D5185(m)		<b>6</b>	61	59
Barium	ppm	ASTM D5185(m)		<b>0</b>	0	<1
Molybdenum	ppm	ASTM D5185(m)		<b>54</b>	30	41
Manganese	ppm	ASTM D5185(m)		<b>0</b>	<1	<1
Magnesium	ppm	ASTM D5185(m)		<b>896</b>	230	524
Calcium	ppm	ASTM D5185(m)	3780	<b>1084</b>	1968	1606
Phosphorus	ppm	ASTM D5185(m)	1370	<b>980</b>	1045	764
Zinc	ppm	ASTM D5185(m)	1500	<b>1127</b>	1113	881
Sulfur	ppm	ASTM D5185(m)	3800	<b>2560</b>	3047	2173
Oxidation	Abs/.1mm	ASTM D7414*	>25	<b>12.4</b>	12.1	19.2
Visc @ 100°C	cSt	ASTM D7279(m)	15.4	<b>14.7</b>	13.5	13.4



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : PN0006078  
**Lab Number** : 02641030  
**Unique Number** : 5798569  
**Test Package** : MOB 1  
**Received** : 11 Jun 2024  
**Tested** : 11 Jun 2024  
**Diagnosed** : 11 Jun 2024 - Wes Davis

**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.