



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

Machine Id  
**500 GLEN RIDGE AVE ST. CATHARINES, INTER CTR BROCK UNIVERSITY 0H0924**

Component  
**Left Natural Gas Engine**

Fluid  
**ESSO XD-3 EXTRA 15W40 (25 LTR)**

**RECOMMENDATION**

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>PN0006254</b>	PN0004868	PN0003445
Sample Date		Client Info		<b>06 Jun 2024</b>	08 Jun 2023	03 Jun 2022
Machine Age	hrs	Client Info		<b>272</b>	255	238
Oil Age	hrs	Client Info		<b>0</b>	0	0
Filter Age	hrs	Client Info		<b>0</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)	>50	<b>&lt;1</b>	1	1
Chromium	ppm	ASTM D5185(m)	>4	<b>0</b>	0	0
Nickel	ppm	ASTM D5185(m)	>2	<b>0</b>	0	0
Titanium	ppm	ASTM D5185(m)		<b>0</b>	0	0
Silver	ppm	ASTM D5185(m)	>3	<b>0</b>	0	0
Aluminum	ppm	ASTM D5185(m)	>9	<b>&lt;1</b>	2	2
Lead	ppm	ASTM D5185(m)	>30	<b>0</b>	0	0
Copper	ppm	ASTM D5185(m)	>35	<b>2</b>	1	2
Tin	ppm	ASTM D5185(m)	>4	<b>0</b>	0	<1
Vanadium	ppm	ASTM D5185(m)		<b>0</b>	0	0

**CONTAMINATION**

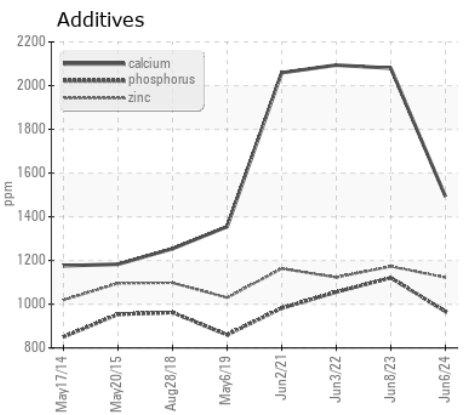
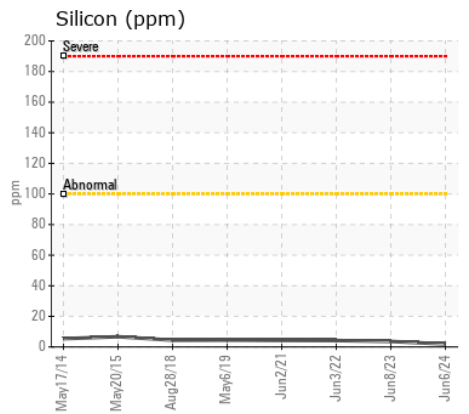
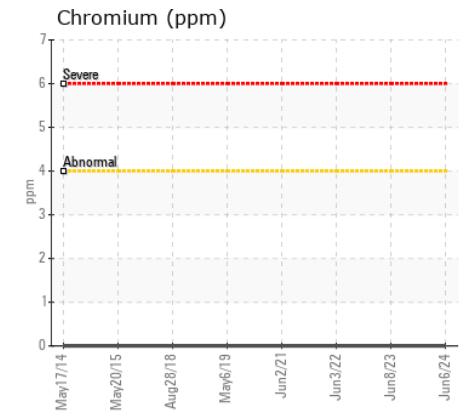
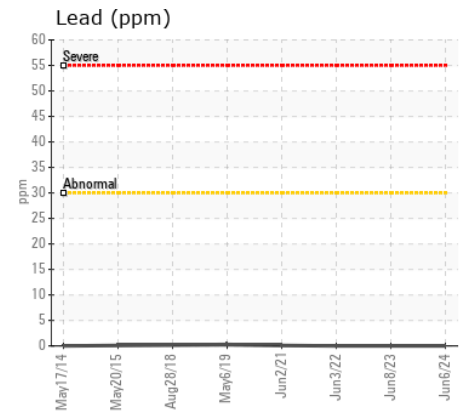
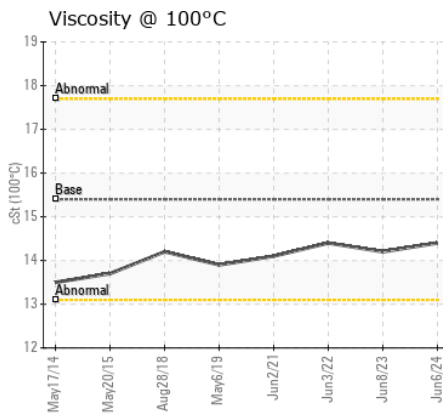
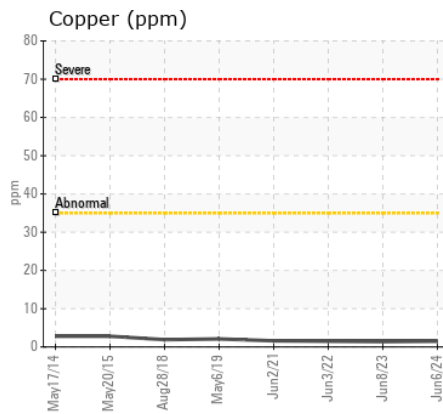
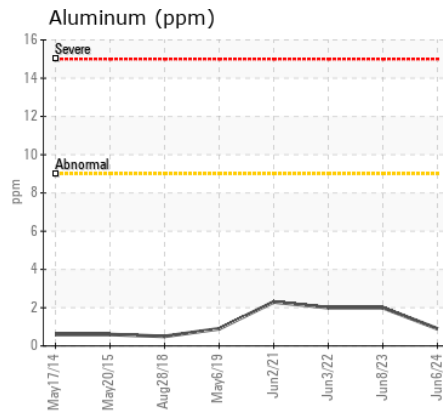
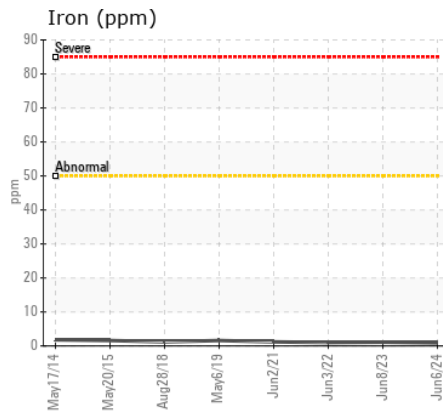
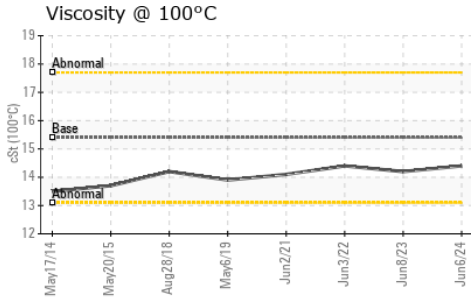
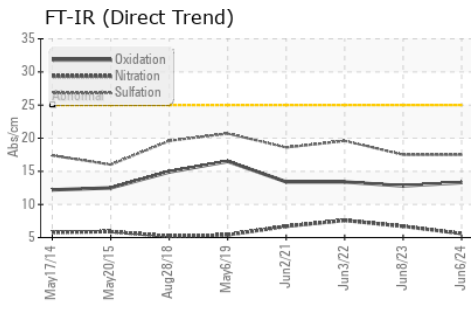
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>+100	<b>2</b>	4	4
Potassium	ppm	ASTM D5185(m)	>20	<b>0</b>	0	<1
Water		WC Method	>0.1	<b>NEG</b>	NEG	NEG
Soot %	%	ASTM D7844*		<b>0</b>	0	0
Nitration	Abs/cm	ASTM D7624*	>20	<b>5.6</b>	6.7	7.6
Sulfation	Abs/.1mm	ASTM D7415*	>30	<b>17.5</b>	17.5	19.6
Emulsified Water	scalar	Visual*	>0.1	<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	1
Boron	ppm	ASTM D5185(m)		<b>26</b>	60	69
Barium	ppm	ASTM D5185(m)		<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185(m)		<b>61</b>	68	83
Manganese	ppm	ASTM D5185(m)		<b>0</b>	0	0
Magnesium	ppm	ASTM D5185(m)		<b>579</b>	174	37
Calcium	ppm	ASTM D5185(m)	3780	<b>1493</b>	2080	2094
Phosphorus	ppm	ASTM D5185(m)	1370	<b>967</b>	1121	1056
Zinc	ppm	ASTM D5185(m)	1500	<b>1122</b>	1173	1123
Sulfur	ppm	ASTM D5185(m)	3800	<b>2698</b>	3257	3183
Oxidation	Abs/.1mm	ASTM D7414*	>25	<b>13.3</b>	12.8	13.4
Visc @ 100°C	cSt	ASTM D7279(m)	15.4	<b>14.4</b>	14.2	14.4



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : PN0006254  
**Lab Number** : 02641952  
**Unique Number** : 5799491  
**Test Package** : MOB 1  
**Received** : 14 Jun 2024  
**Tested** : 14 Jun 2024  
**Diagnosed** : 14 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.