



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

Area  
**[86347]**  
 Machine Id

**30 POND ST. TORONTO ST. MICHAELS HOSPITAL 12TH FLOOR UNIT #2**

Component  
**Rear Diesel Engine**

Fluid  
**ESSO XD-3 EXTRA 15W40 (75 LTR)**

**RECOMMENDATION**

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>PN0006181</b>	PN0004761	PN0003414
Sample Date		Client Info		<b>16 May 2024</b>	01 May 2023	24 May 2022
Machine Age	hrs	Client Info		<b>550</b>	509	466
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>Not Chngd</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>2</b>	2	2
Chromium	ppm	ASTM D5185(m)	>20	<b>0</b>	0	0
Nickel	ppm	ASTM D5185(m)	>2	<b>0</b>	0	<1
Titanium	ppm	ASTM D5185(m)	>2	<b>0</b>	0	0
Silver	ppm	ASTM D5185(m)	>2	<b>0</b>	0	0
Aluminum	ppm	ASTM D5185(m)	>25	<b>&lt;1</b>	2	2
Lead	ppm	ASTM D5185(m)	>40	<b>&lt;1</b>	<1	1
Copper	ppm	ASTM D5185(m)	>330	<b>2</b>	1	1
Tin	ppm	ASTM D5185(m)	>15	<b>0</b>	<1	<1
Vanadium	ppm	ASTM D5185(m)		<b>0</b>	0	0

**CONTAMINATION**

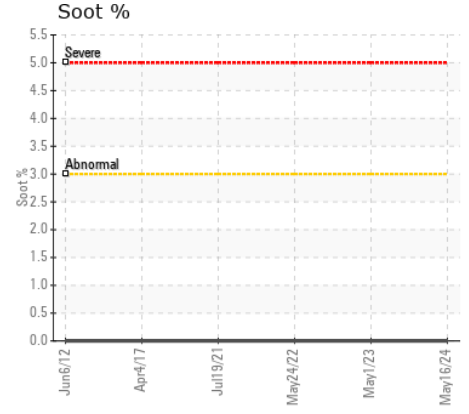
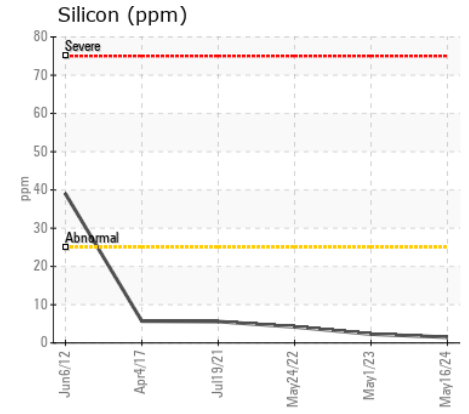
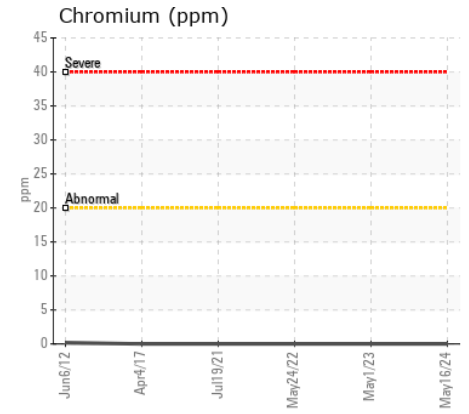
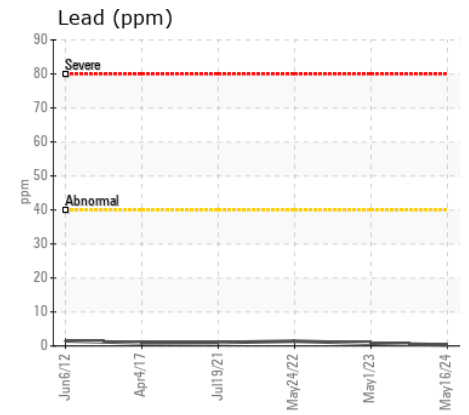
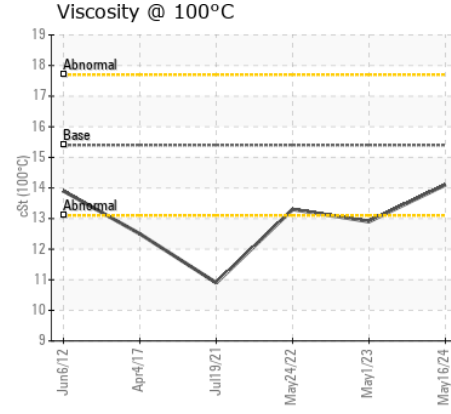
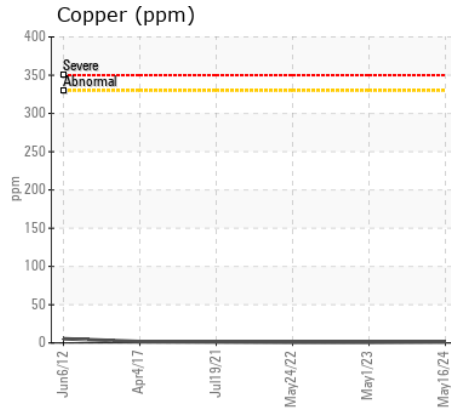
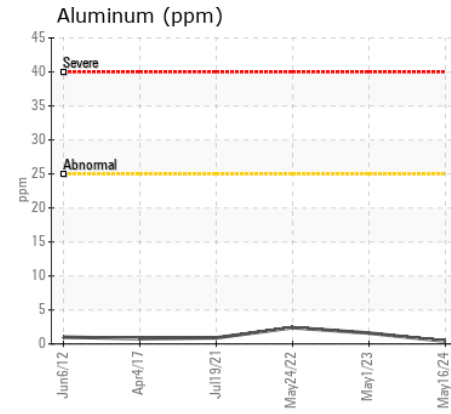
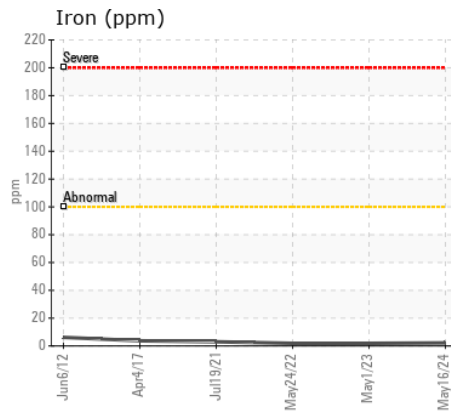
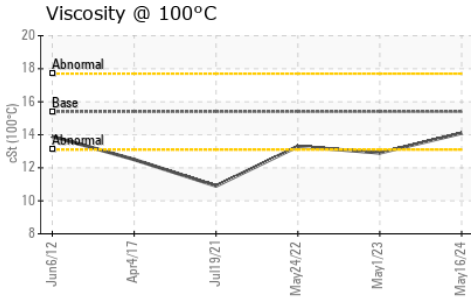
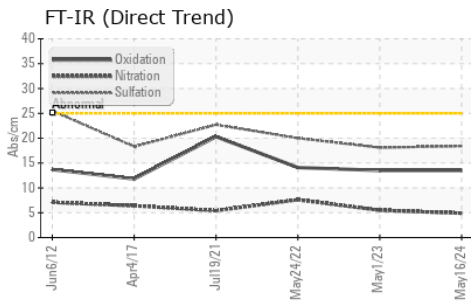
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>25	<b>2</b>	2	4
Potassium	ppm	ASTM D5185(m)	>20	<b>0</b>	<1	2
Fuel		WC Method	>5	<b>&lt;1.0</b>	1.8	<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>4.9</b>	5.5	7.6
Sulfation	Abs/.1mm	ASTM D7415*	>30	<b>18.4</b>	18.1	20.0
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	2
Boron	ppm	ASTM D5185(m)		<b>8</b>	35	76
Barium	ppm	ASTM D5185(m)		<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185(m)		<b>59</b>	61	84
Manganese	ppm	ASTM D5185(m)		<b>0</b>	<1	<1
Magnesium	ppm	ASTM D5185(m)		<b>910</b>	554	64
Calcium	ppm	ASTM D5185(m)	3780	<b>1102</b>	1469	2134
Phosphorus	ppm	ASTM D5185(m)	1370	<b>995</b>	1008	1119
Zinc	ppm	ASTM D5185(m)	1500	<b>1158</b>	1038	1191
Sulfur	ppm	ASTM D5185(m)	3800	<b>2591</b>	2665	3323
Oxidation	Abs/.1mm	ASTM D7414*	>25	<b>13.5</b>	13.5	14.1
Visc @ 100°C	cSt	ASTM D7279(m)	15.4	<b>14.1</b>	12.9	13.3



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : PN0006181  
**Lab Number** : 02637386  
**Unique Number** : 5786548  
**Test Package** : MOB 1  
**Received** : 24 May 2024  
**Tested** : 24 May 2024  
**Diagnosed** : 24 May 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.