



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

Machine Id  
**160 KENDAL AVE. TORONTO ROOF GEORGE BROWN COLLEGE 66D6480**

Component  
**Left Diesel 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>PN0006006</b>	PN0004557	PN0003027
Sample Date		Client Info		<b>15 Apr 2024</b>	31 Jan 2023	07 Mar 2022
Machine Age	hrs	Client Info		<b>678</b>	666	624
Oil Age	hrs	Client Info		<b>13</b>	42	0
Filter Age	hrs	Client Info		<b>13</b>	42	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)	>100	<b>1</b>	2	5
Chromium	ppm	ASTM D5185(m)	>20	<b>0</b>	0	<1
Nickel	ppm	ASTM D5185(m)	>2	<b>0</b>	0	<1
Titanium	ppm	ASTM D5185(m)	>2	<b>0</b>	<1	0
Silver	ppm	ASTM D5185(m)	>2	<b>0</b>	0	0
Aluminum	ppm	ASTM D5185(m)	>25	<b>2</b>	3	3
Lead	ppm	ASTM D5185(m)	>40	<b>0</b>	1	1
Copper	ppm	ASTM D5185(m)	>330	<b>2</b>	2	1
Tin	ppm	ASTM D5185(m)	>15	<b>0</b>	<1	<1
Vanadium	ppm	ASTM D5185(m)		<b>0</b>	0	0
White Metal	scalar	Visual*	NONE	<b>VLITE</b>	---	NONE
Yellow Metal	scalar	Visual*	NONE	<b>NONE</b>	---	NONE

**CONTAMINATION**

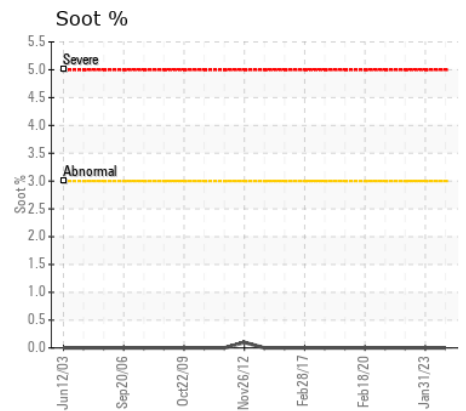
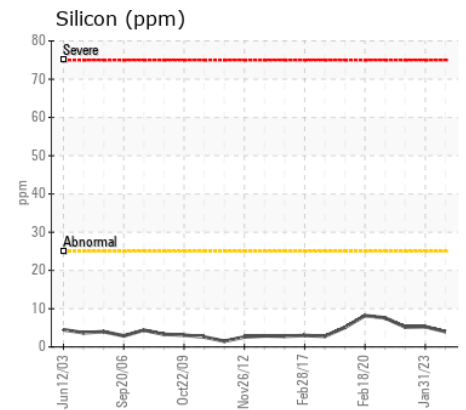
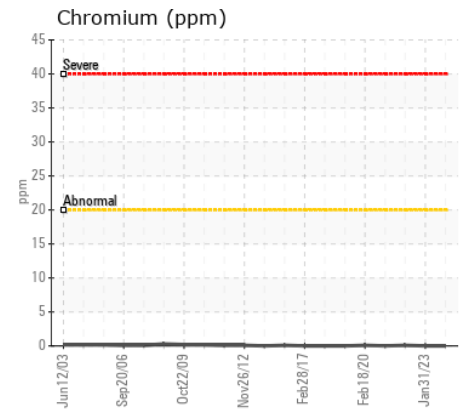
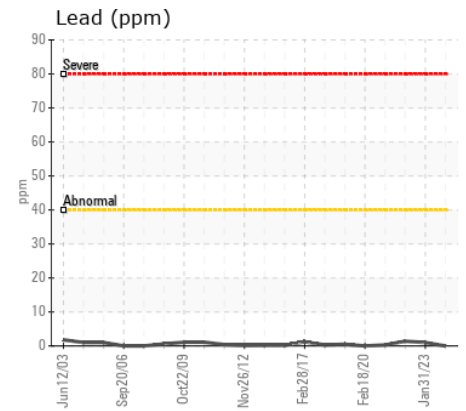
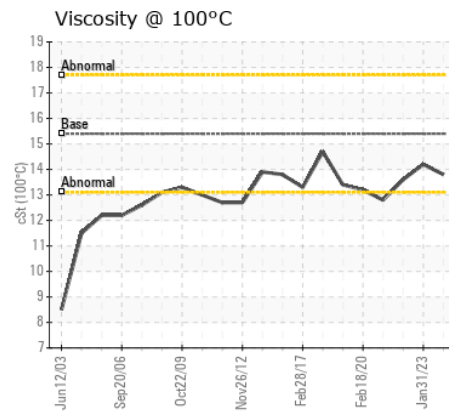
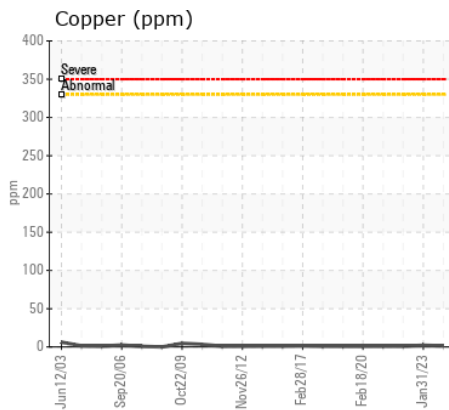
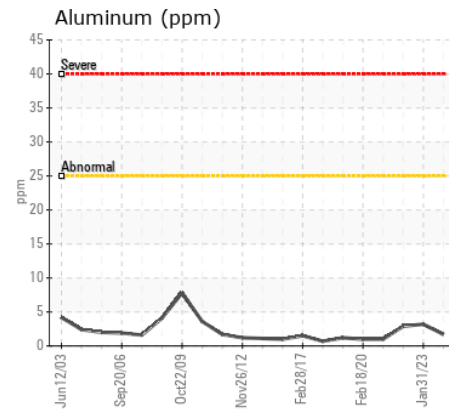
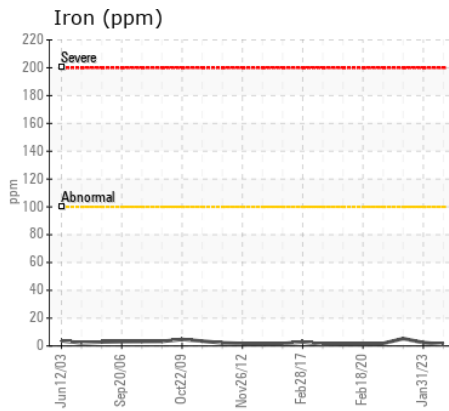
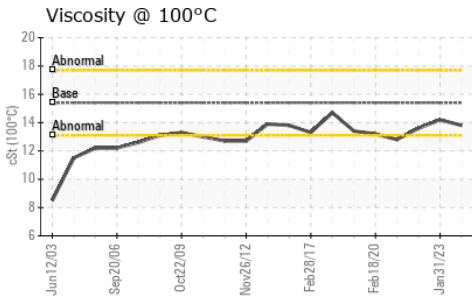
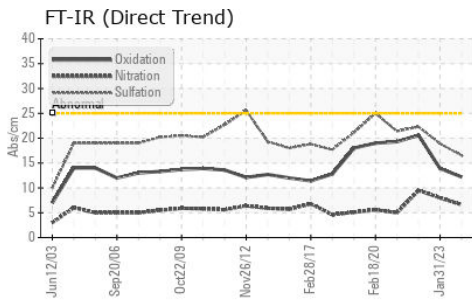
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>25	<b>4</b>	5	5
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>6.6</b>	8.0	9.5
Sulfation	Abs/.1mm	ASTM D7415*	>30	<b>16.5</b>	18.9	22.3
Silt	scalar	Visual*	NONE	<b>NONE</b>	---	NONE
Debris	scalar	Visual*	NONE	<b>NONE</b>	---	VLITE
Sand/Dirt	scalar	Visual*	NONE	<b>NONE</b>	---	NONE
Appearance	scalar	Visual*	NORML	<b>NORML</b>	---	NORML
Odor	scalar	Visual*	NORML	<b>NORML</b>	NORML	NORML
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>	3	3
Boron	ppm	ASTM D5185(m)		<b>60</b>	75	58
Barium	ppm	ASTM D5185(m)		<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185(m)		<b>35</b>	89	62
Manganese	ppm	ASTM D5185(m)		<b>0</b>	0	<1
Magnesium	ppm	ASTM D5185(m)		<b>274</b>	33	329
Calcium	ppm	ASTM D5185(m)	3780	<b>1859</b>	2334	1832
Phosphorus	ppm	ASTM D5185(m)	1370	<b>979</b>	1143	890
Zinc	ppm	ASTM D5185(m)	1500	<b>1109</b>	1206	1015
Sulfur	ppm	ASTM D5185(m)	3800	<b>3075</b>	3444	2631
Oxidation	Abs/.1mm	ASTM D7414*	>25	<b>12.2</b>	13.9	20.6
Visc @ 100°C	cSt	ASTM D7279(m)	15.4	<b>13.8</b>	14.2	13.6



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : PN0006006 **Received** : 22 Apr 2024  
**Lab Number** : 02630527 **Tested** : 22 Apr 2024  
**Unique Number** : 5763659 **Diagnosed** : 22 Apr 2024 - Wes Davis  
**Test Package** : MOB 1 ( Additional Tests: Visual )

**POWER STATION INC.**  
 1050 JAYSON COURT  
 MISSISSAUGA, ON  
 CA L4W 2V5  
 Contact: Brett Kinkley  
 Bkinkley@pwrstn.com  
 T:  
 F: (905)565-8544

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.