



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

Machine Id  
**19 SIMCOE ST. BARRIE, WELL #114 CITY OF BARRIE 4ZR07401**  
 Component  
**Right 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>PN0006173</b>	PN990760	PN957747
Sample Date		Client Info		<b>13 May 2024</b>	22 Mar 2017	30 Mar 2016
Machine Age	hrs	Client Info		<b>630</b>	407	386
Oil Age	hrs	Client Info		<b>0</b>	21	28
Filter Age	hrs	Client Info		<b>0</b>	21	28
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)	>86	<b>3</b>	3	3
Chromium	ppm	ASTM D5185(m)	>3	<b>0</b>	0	0
Nickel	ppm	ASTM D5185(m)	>3	<b>0</b>	<1	0
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)	>15	<b>1</b>	1	1
Lead	ppm	ASTM D5185(m)	>16	<b>0</b>	<1	<1
Copper	ppm	ASTM D5185(m)	>250	<b>4</b>	<1	1
Tin	ppm	ASTM D5185(m)	>2	<b>0</b>	<1	<1
Vanadium	ppm	ASTM D5185(m)		<b>0</b>	0	0
White Metal	scalar	Visual*	NONE	<b>NONE</b>	---	---
Yellow Metal	scalar	Visual*	NONE	<b>NONE</b>	---	---

**CONTAMINATION**

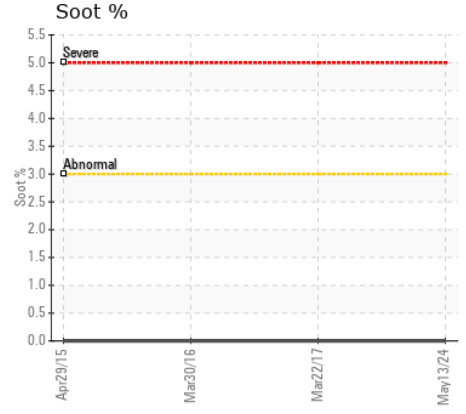
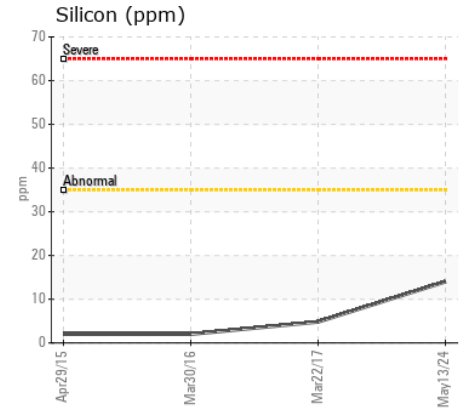
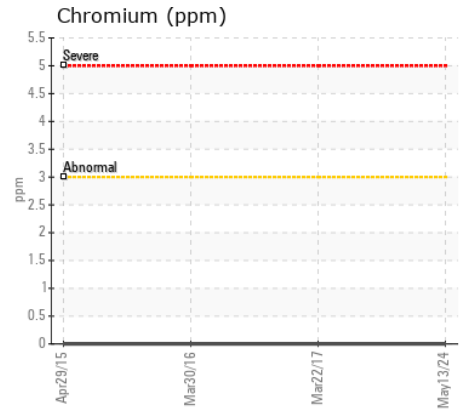
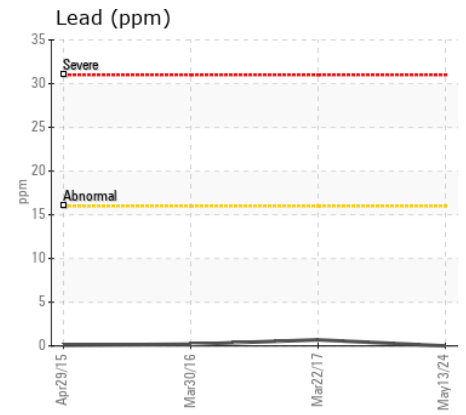
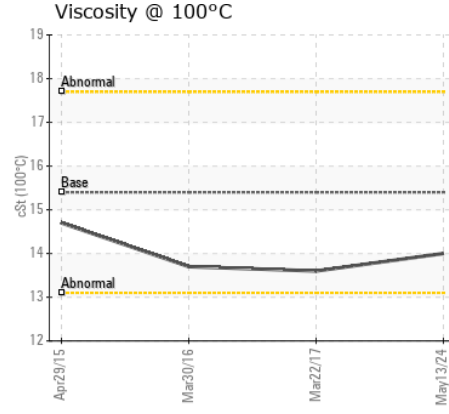
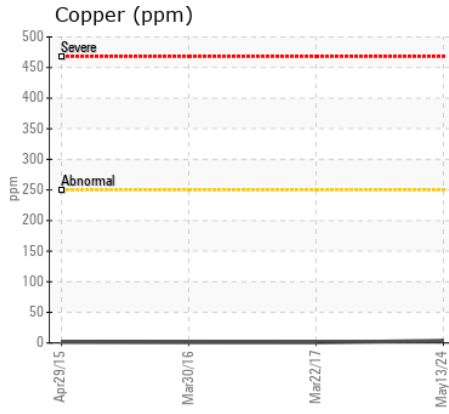
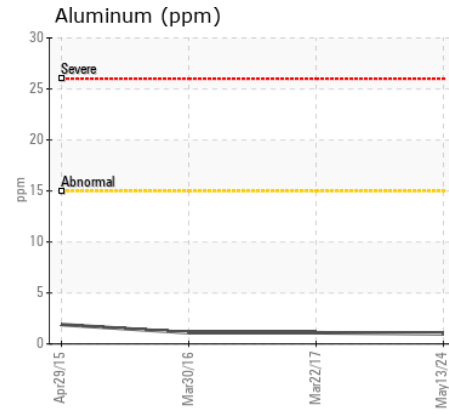
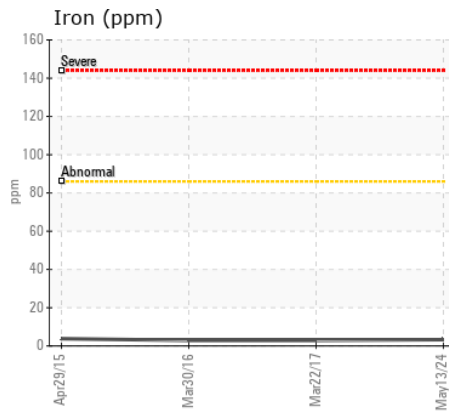
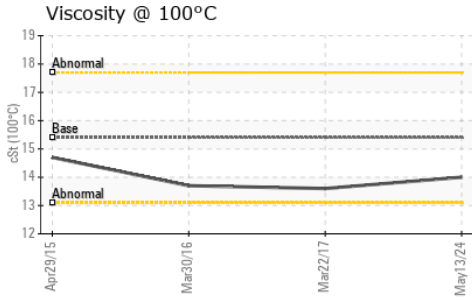
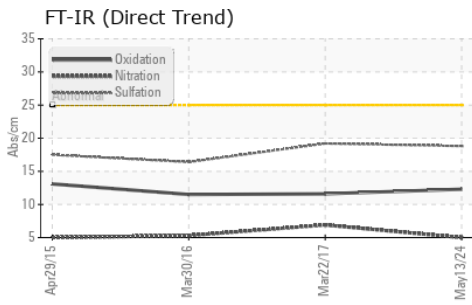
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>35	<b>14</b>	5	2
Potassium	ppm	ASTM D5185(m)	>20	<b>&lt;1</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>5.0</b>	6.9	5.3
Sulfation	Abs/.1mm	ASTM D7415*	>30	<b>18.8</b>	19.2	16.4
Silt	scalar	Visual*	NONE	<b>VLITE</b>	---	---
Debris	scalar	Visual*	NONE	<b>VLITE</b>	---	---
Sand/Dirt	scalar	Visual*	NONE	<b>NONE</b>	---	---
Appearance	scalar	Visual*	NORML	<b>NORML</b>	---	---
Odor	scalar	Visual*	NORML	<b>NORML</b>	---	---
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>2</b>	2	2
Boron	ppm	ASTM D5185(m)		<b>331</b>	8	12
Barium	ppm	ASTM D5185(m)		<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185(m)		<b>63</b>	13	33
Manganese	ppm	ASTM D5185(m)		<b>0</b>	<1	<1
Magnesium	ppm	ASTM D5185(m)		<b>279</b>	236	643
Calcium	ppm	ASTM D5185(m)	3780	<b>1604</b>	2017	1478
Phosphorus	ppm	ASTM D5185(m)	1370	<b>984</b>	948	1045
Zinc	ppm	ASTM D5185(m)	1500	<b>1135</b>	1108	1230
Sulfur	ppm	ASTM D5185(m)	3800	<b>2784</b>	2801	3085
Oxidation	Abs/.1mm	ASTM D7414*	>25	<b>12.3</b>	11.6	11.5
Visc @ 100°C	cSt	ASTM D7279(m)	15.4	<b>14.0</b>	13.6	13.7



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : PN0006173 **Received** : 21 May 2024  
**Lab Number** : 02636571 **Tested** : 22 May 2024  
**Unique Number** : 5785733 **Diagnosed** : 22 May 2024 - Wes Davis  
**Test Package** : MOB 1 ( Additional Tests: Visual )

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.

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