



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

Machine Id  
**6745 MAVIS RD MISSISSAUGA, FIRE STATION 121 CITY OF MISSISSAUGA 46131682**

Component  
**Rear Diesel Engine**

Fluid  
**ESSO XD-3 EXTRA 15W40 (12 LTR)**

**RECOMMENDATION**

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>PN0005746</b>	PN0306084	PN103807
Sample Date		Client Info		<b>08 Jan 2024</b>	07 Jan 2019	10 Oct 2017
Machine Age	hrs	Client Info		<b>113</b>	5	1
Oil Age	hrs	Client Info		<b>12</b>	5	0
Filter Age	hrs	Client Info		<b>12</b>	5	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	3
Chromium	ppm	ASTM D5185(m)	>20	<b>0</b>	0	0
Nickel	ppm	ASTM D5185(m)	>2	<b>0</b>	0	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)	>20	<b>2</b>	1	2
Lead	ppm	ASTM D5185(m)	>40	<b>&lt;1</b>	<1	2
Copper	ppm	ASTM D5185(m)	>330	<b>&lt;1</b>	<1	3
Tin	ppm	ASTM D5185(m)	>15	<b>0</b>	0	0
Vanadium	ppm	ASTM D5185(m)		<b>0</b>	0	0

**CONTAMINATION**

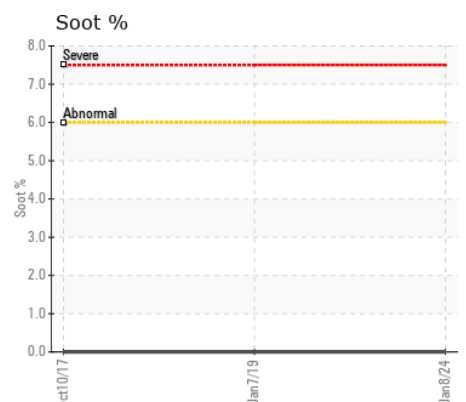
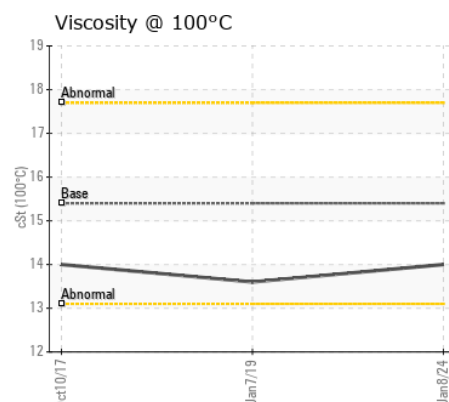
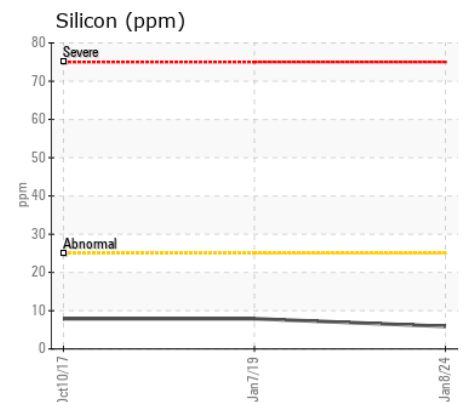
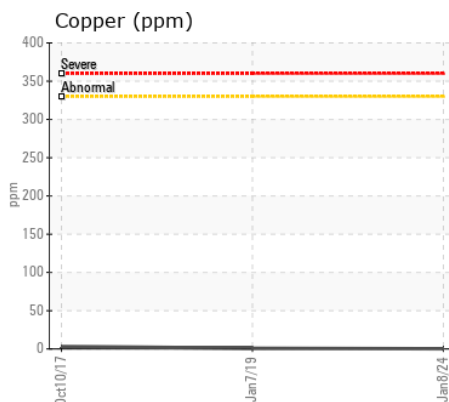
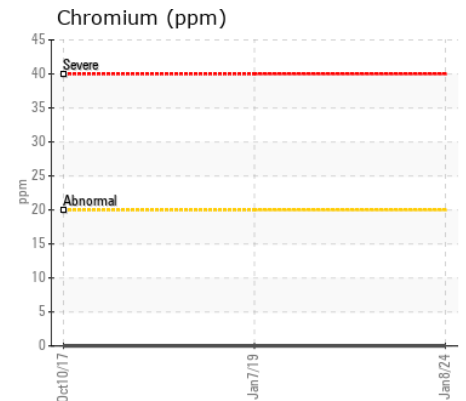
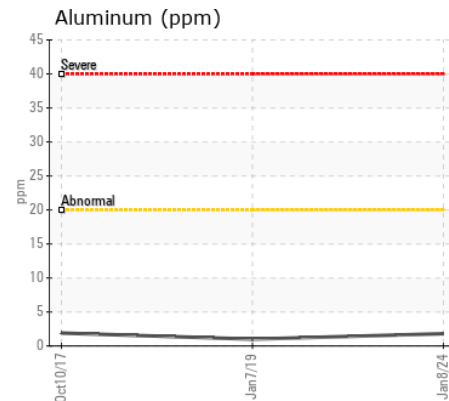
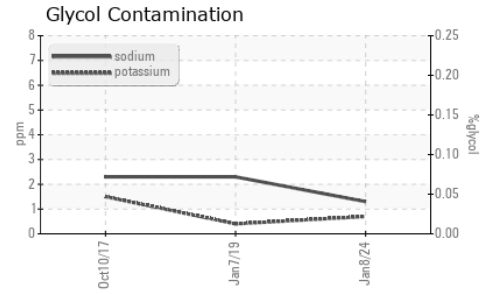
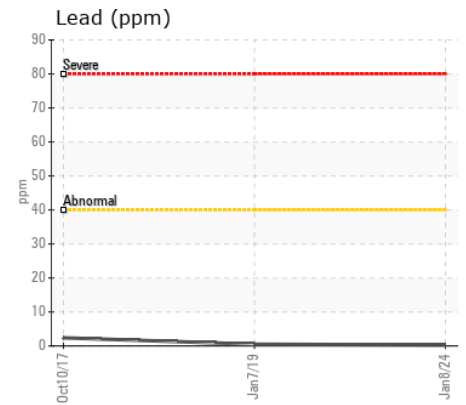
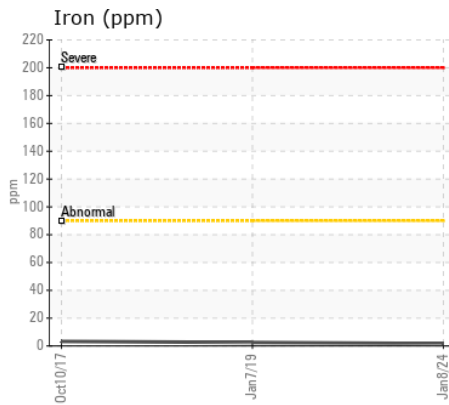
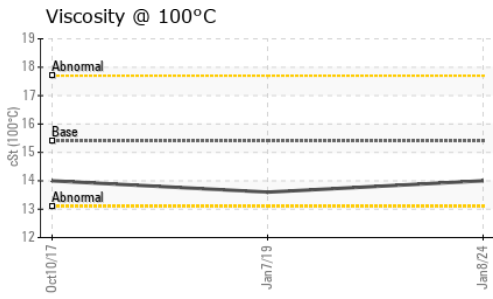
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>25	<b>6</b>	8	8
Potassium	ppm	ASTM D5185(m)	>20	<b>&lt;1</b>	<1	2
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	%	ASTM D7922*		<b>NEG</b>	NEG	NEG
Soot %	%	ASTM D7844*	>6	<b>0</b>	0	0
Nitration	Abs/cm	ASTM D7624*	>20	<b>7.0</b>	5.1	11.1
Sulfation	Abs/.1mm	ASTM D7415*	>30	<b>17.0</b>	21.9	24.6
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>64</b>	125	434
Barium	ppm	ASTM D5185(m)		<b>0</b>	0	<1
Molybdenum	ppm	ASTM D5185(m)		<b>22</b>	55	148
Manganese	ppm	ASTM D5185(m)		<b>0</b>	<1	<1
Magnesium	ppm	ASTM D5185(m)		<b>167</b>	437	393
Calcium	ppm	ASTM D5185(m)	3780	<b>1913</b>	1543	1585
Phosphorus	ppm	ASTM D5185(m)	1370	<b>998</b>	759	1189
Zinc	ppm	ASTM D5185(m)	1500	<b>1095</b>	922	1529
Sulfur	ppm	ASTM D5185(m)	3800	<b>3397</b>	2337	3835
Oxidation	Abs/.1mm	ASTM D7414*	>25	<b>12.8</b>	19.2	15.9
Visc @ 100°C	cSt	ASTM D7279(m)	15.4	<b>14.0</b>	13.6	14.0



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : PN0005746 **Received** : 12 Jan 2024  
**Lab Number** : 02608522 **Diagnosed** : 15 Jan 2024  
**Unique Number** : 5709608 **Diagnostician** : Kevin Marson  
**Test Package** : MOB 1 ( Additional Tests: Glycol )

**POWER STATION INC.**  
 1050 JAYSON COURT  
 MISSISSAUGA, ON  
 CA L4W 2V5  
 Contact: Ryan Udall  
 rudall@pwrstn.com  
 T: (905)565-1621  
 F: (905)629-1499

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.