



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

Machine Id  
**2300 HOGAN DR, MISSISSAUGA KUEHNE & NAGEL PE6068T851235**

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>PN0005631</b>	PN0004550	PN0000841
Sample Date		Client Info		<b>12 Jan 2024</b>	26 Jan 2023	09 Dec 2019
Machine Age	hrs	Client Info		<b>240</b>	239	198
Oil Age	hrs	Client Info		<b>0</b>	3	40
Filter Age	hrs	Client Info		<b>0</b>	3	40
Oil Changed		Client Info		<b>Changed</b>	Changed	Changed
Filter Changed		Client Info		<b>Changed</b>	Changed	Not Changd
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>&lt;1</b>	1	6
Chromium	ppm	ASTM D5185(m)	>20	<b>0</b>	0	<1
Nickel	ppm	ASTM D5185(m)	>4	<b>&lt;1</b>	<1	<1
Titanium	ppm	ASTM D5185(m)		<b>0</b>	0	<1
Silver	ppm	ASTM D5185(m)	>3	<b>&lt;1</b>	0	0
Aluminum	ppm	ASTM D5185(m)	>20	<b>2</b>	3	2
Lead	ppm	ASTM D5185(m)	>40	<b>0</b>	<1	<1
Copper	ppm	ASTM D5185(m)	>330	<b>&lt;1</b>	<1	2
Tin	ppm	ASTM D5185(m)	>15	<b>0</b>	0	<1
Vanadium	ppm	ASTM D5185(m)		<b>0</b>	0	0

**CONTAMINATION**

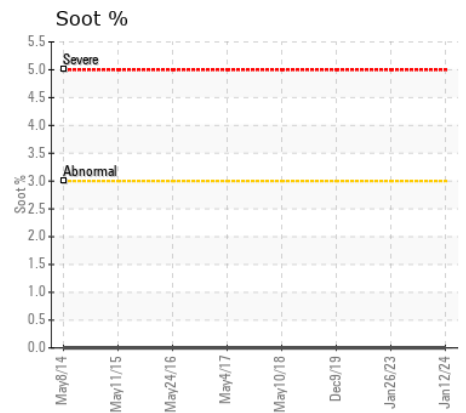
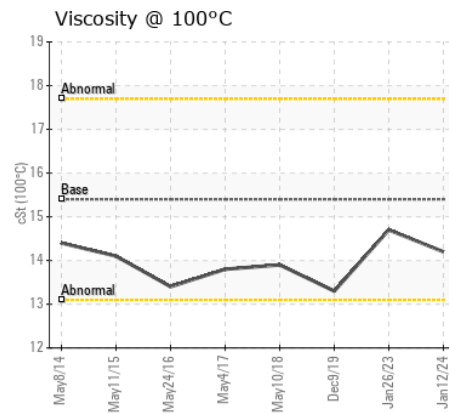
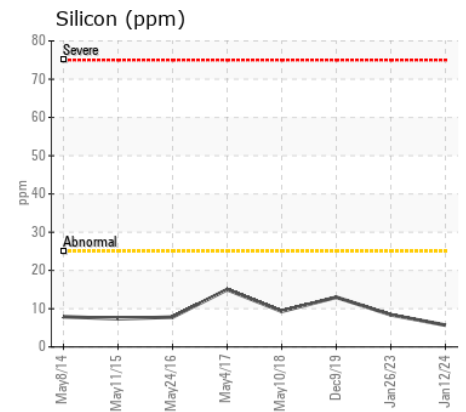
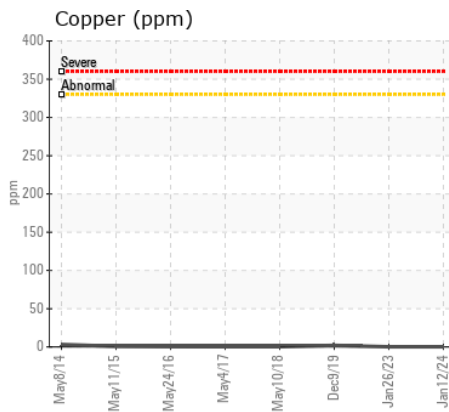
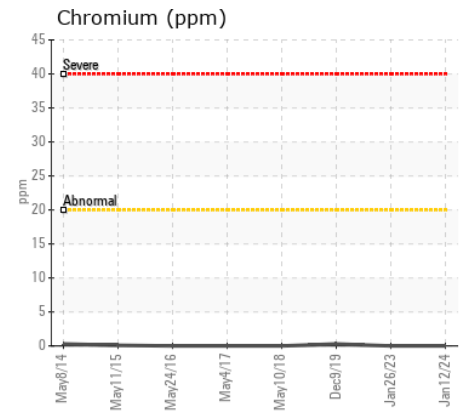
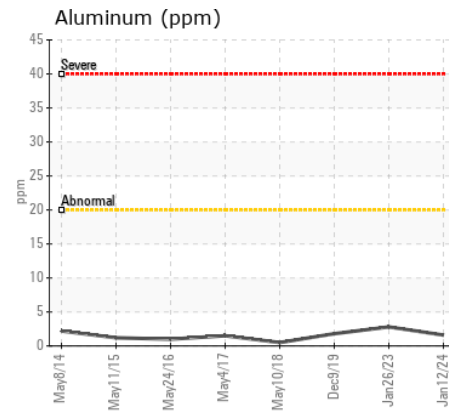
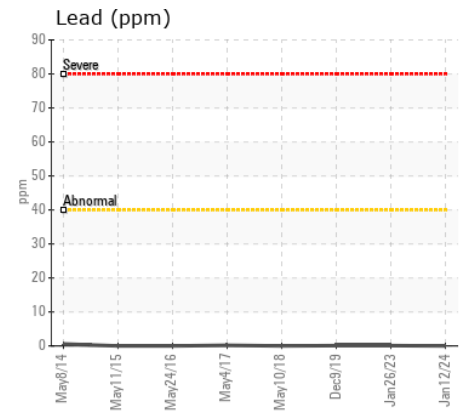
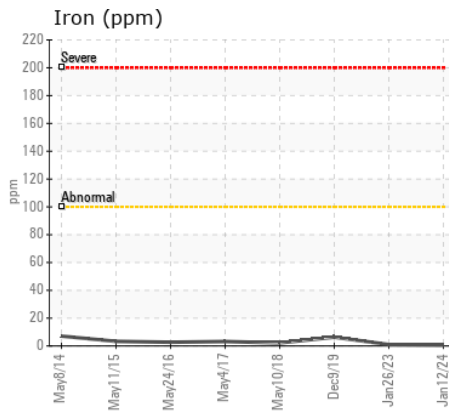
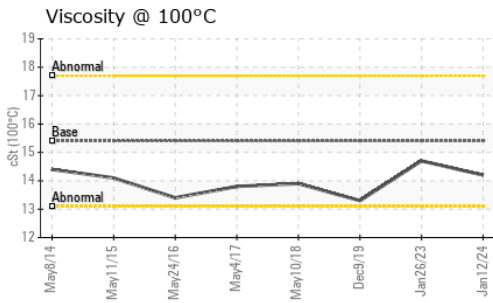
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>25	<b>6</b>	8	13
Potassium	ppm	ASTM D5185(m)	>20	<b>&lt;1</b>	0	<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>5.7</b>	4.9	6.2
Sulfation	Abs/.1mm	ASTM D7415*	>30	<b>17.1</b>	15.4	25.0
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	10
Boron	ppm	ASTM D5185(m)		<b>42</b>	74	48
Barium	ppm	ASTM D5185(m)		<b>0</b>	0	<1
Molybdenum	ppm	ASTM D5185(m)		<b>41</b>	83	44
Manganese	ppm	ASTM D5185(m)		<b>0</b>	0	<1
Magnesium	ppm	ASTM D5185(m)		<b>488</b>	17	563
Calcium	ppm	ASTM D5185(m)	3780	<b>1496</b>	2120	1578
Phosphorus	ppm	ASTM D5185(m)	1370	<b>967</b>	1080	773
Zinc	ppm	ASTM D5185(m)	1500	<b>1077</b>	1120	921
Sulfur	ppm	ASTM D5185(m)	3800	<b>3028</b>	3205	2241
Oxidation	Abs/.1mm	ASTM D7414*	>25	<b>12.0</b>	8.1	18.8
Visc @ 100°C	cSt	ASTM D7279(m)	15.4	<b>14.2</b>	14.7	13.3



ISO 17025:2017  
Accredited  
Laboratory

**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : PN0005631 **Received** : 19 Jan 2024  
**Lab Number** : 02609882 **Diagnosed** : 19 Jan 2024  
**Unique Number** : 5710968 **Diagnostician** : Wes Davis  
**Test Package** : MOB 1

**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.