



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

Area

[86494]

Machine Id

200 UNIVERSITY AVE TORONTO ROOF GWL REALTY ADVISORS 116132

Component

Rear Diesel Engine

Fluid

ESSO XD-3 EXTRA 15W40 (40 LTR)

**RECOMMENDATION**

We advise that you check the air filter, air induction system, and any areas where dirt may enter the component. The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>PN0006069</b>	PN0004774	PN0004041
Sample Date		Client Info		<b>26 May 2024</b>	28 May 2023	22 Oct 2022
Machine Age	hrs	Client Info		<b>588</b>	569	561
Oil Age	hrs	Client Info		<b>569</b>	0	0
Filter Age	hrs	Client Info		<b>569</b>	0	0
Oil Changed		Client Info		<b>Changed</b>	Changed	Changed
Filter Changed		Client Info		<b>Not Changd</b>	Not Changd	Changed
Sample Status				<b>SEVERE</b>	MARGINAL	ABNORMAL

**WEAR**

Metal levels are typical for a new component breaking in.

Iron	ppm	ASTM D5185(m)	>100	<b>1</b>	2	1
Chromium	ppm	ASTM D5185(m)	>20	<b>0</b>	0	0
Nickel	ppm	ASTM D5185(m)	>4	<b>0</b>	0	0
Titanium	ppm	ASTM D5185(m)		<b>0</b>	0	0
Silver	ppm	ASTM D5185(m)	>3	<b>0</b>	0	0
Aluminum	ppm	ASTM D5185(m)	>20	<b>&lt;1</b>	1	2
Lead	ppm	ASTM D5185(m)	>40	<b>0</b>	<1	0
Copper	ppm	ASTM D5185(m)	>330	<b>&lt;1</b>	<1	<1
Tin	ppm	ASTM D5185(m)	>15	<b>0</b>	0	0
Vanadium	ppm	ASTM D5185(m)		<b>0</b>	0	0

**CONTAMINATION**

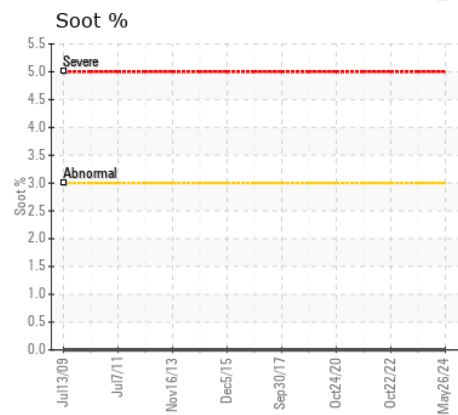
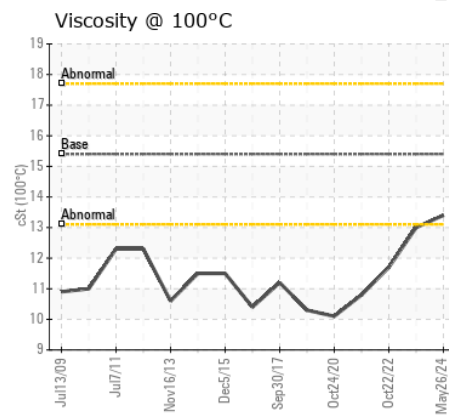
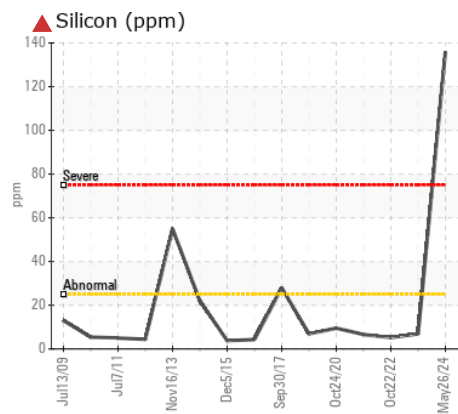
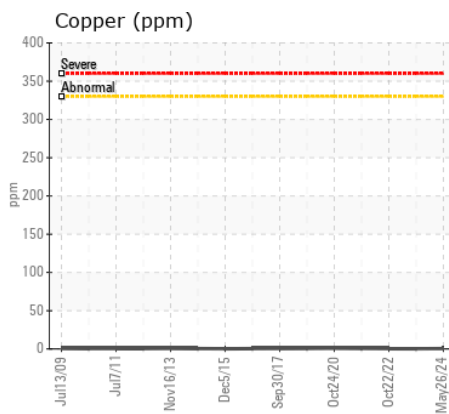
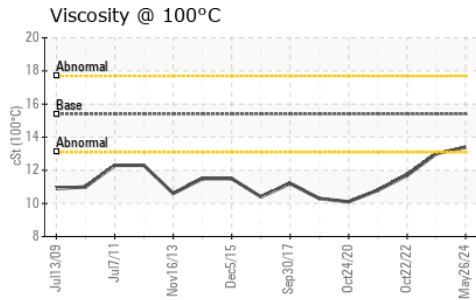
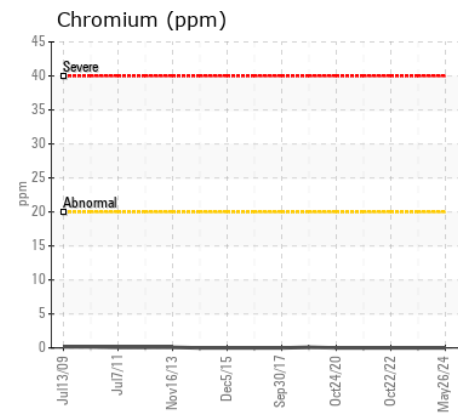
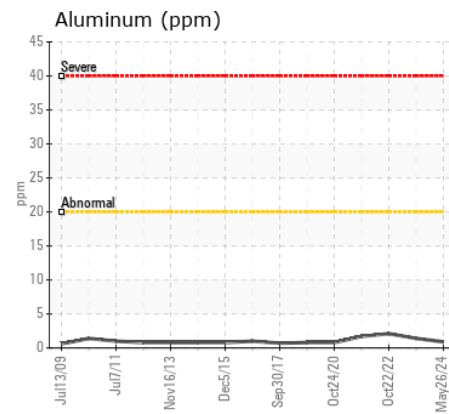
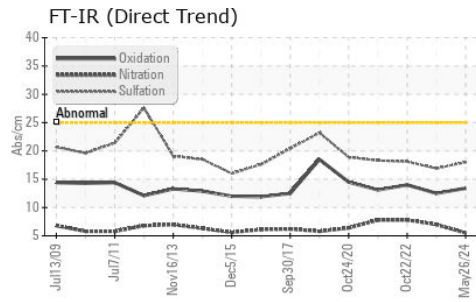
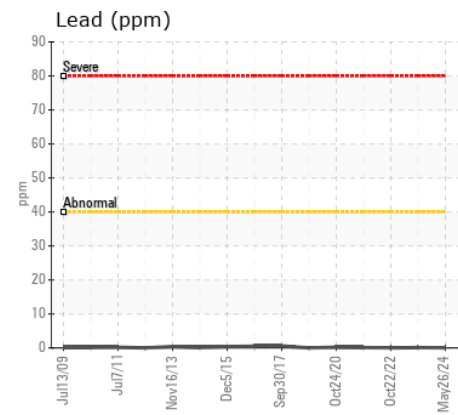
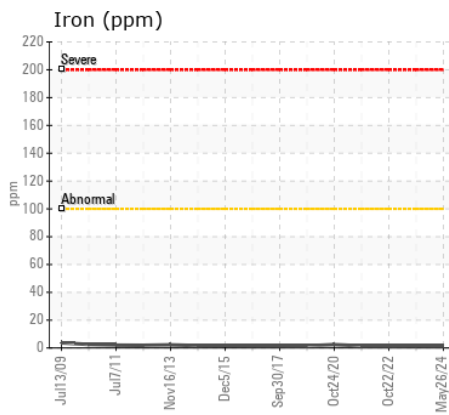
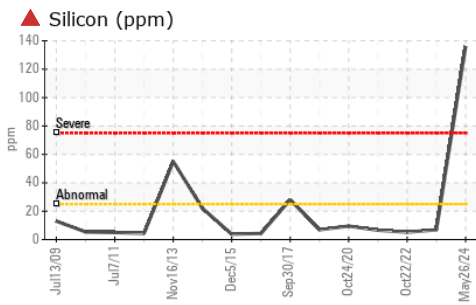
High silicon level indicates possible contamination with silicone-based oil or silicone-based fitting compound/grease and/or dirt. Advise investigate any possible cross-contamination with silicone-based oil, or any points that are sealed/greased with silicone-based compound/grease.

Silicon	ppm	ASTM D5185(m)	>25	<b>▲ 136</b>	7	5
Potassium	ppm	ASTM D5185(m)	>20	<b>&lt;1</b>	<1	1
Fuel		WC Method	>5	<b>&lt;1.0</b>	▲ 4.1	▲ 7.2
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>5.5</b>	7.0	7.8
Sulfation	Abs/.1mm	ASTM D7415*	>30	<b>18.0</b>	16.9	18.1
Emulsified Water	scalar	Visual*	>0.2	<b>NEG</b>	NEG	NEG

**FLUID CONDITION**

The oil is no longer serviceable due to the presence of contaminants.

Sodium	ppm	ASTM D5185(m)	>192	<b>1</b>	2	3
Boron	ppm	ASTM D5185(m)		<b>21</b>	71	70
Barium	ppm	ASTM D5185(m)		<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185(m)		<b>46</b>	23	77
Manganese	ppm	ASTM D5185(m)		<b>0</b>	0	0
Magnesium	ppm	ASTM D5185(m)		<b>666</b>	45	51
Calcium	ppm	ASTM D5185(m)	3780	<b>1330</b>	2081	1991
Phosphorus	ppm	ASTM D5185(m)	1370	<b>966</b>	1037	997
Zinc	ppm	ASTM D5185(m)	1500	<b>1086</b>	1064	1031
Sulfur	ppm	ASTM D5185(m)	3800	<b>2634</b>	3296	2991
Oxidation	Abs/.1mm	ASTM D7414*	>25	<b>13.4</b>	12.5	14.0
Visc @ 100°C	cSt	ASTM D7279(m)	15.4	<b>13.4</b>	13.0	▲ 11.7



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : PN0006069  
**Lab Number** : 02638824  
**Unique Number** : 5787986  
**Test Package** : MOB 1  
**Received** : 30 May 2024  
**Tested** : 30 May 2024  
**Diagnosed** : 30 May 2024 - Kevin Marson

**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.