



Area  
**[83872]**  
 Machine Id  
**7036 MCLEOD RD CITY OF NIAGARA CITY OF NIAGARA**  
 Component  
**Rear Natural Gas Engine**  
 Fluid  
**ESSO XD-3 EXTRA 15W40 (5 LTR)**

**RECOMMENDATION**

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>PN0005666</b>	---	---
Sample Date		Client Info		<b>18 Jan 2024</b>	---	---
Machine Age	hrs	Client Info		<b>0</b>	---	---
Oil Age	hrs	Client Info		<b>0</b>	---	---
Filter Age	hrs	Client Info		<b>0</b>	---	---
Oil Changed		Client Info		<b>Changed</b>	---	---
Filter Changed		Client Info		<b>Not Chngd</b>	---	---
Sample Status				<b>ABNORMAL</b>	---	---

**WEAR**

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>50	<b>1</b>	---	---
Chromium	ppm	ASTM D5185(m)	>4	<b>0</b>	---	---
Nickel	ppm	ASTM D5185(m)	>2	<b>&lt;1</b>	---	---
Titanium	ppm	ASTM D5185(m)		<b>80</b>	---	---
Silver	ppm	ASTM D5185(m)	>3	<b>0</b>	---	---
Aluminum	ppm	ASTM D5185(m)	>9	<b>3</b>	---	---
Lead	ppm	ASTM D5185(m)	>30	<b>0</b>	---	---
Copper	ppm	ASTM D5185(m)	>35	<b>4</b>	---	---
Tin	ppm	ASTM D5185(m)	>4	<b>0</b>	---	---
Vanadium	ppm	ASTM D5185(m)		<b>&lt;1</b>	---	---

**CONTAMINATION**

There is no indication of any contamination in the oil.

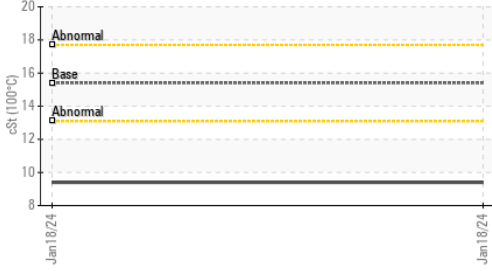
Silicon	ppm	ASTM D5185(m)	>+100	<b>4</b>	---	---
Potassium	ppm	ASTM D5185(m)	>20	<b>&lt;1</b>	---	---
Water		WC Method	>0.1	<b>NEG</b>	---	---
Soot %	%	ASTM D7844*		<b>0</b>	---	---
Nitration	Abs/cm	ASTM D7624*	>20	<b>4.7</b>	---	---
Sulfation	Abs/.1mm	ASTM D7415*	>30	<b>14.4</b>	---	---
Emulsified Water	scalar	Visual*	>0.1	<b>NEG</b>	---	---

**FLUID CONDITION**

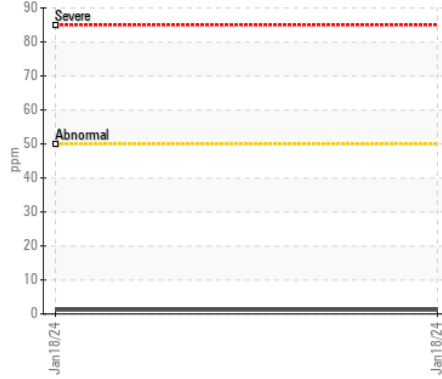
Viscosity of sample indicates oil is within SAE 30 range, advise investigate. The condition of the oil is acceptable for the time in service.

Sodium	ppm	ASTM D5185(m)	>192	<b>1</b>	---	---
Boron	ppm	ASTM D5185(m)		<b>168</b>	---	---
Barium	ppm	ASTM D5185(m)		<b>0</b>	---	---
Molybdenum	ppm	ASTM D5185(m)		<b>20</b>	---	---
Manganese	ppm	ASTM D5185(m)		<b>0</b>	---	---
Magnesium	ppm	ASTM D5185(m)		<b>506</b>	---	---
Calcium	ppm	ASTM D5185(m)	3780	<b>1633</b>	---	---
Phosphorus	ppm	ASTM D5185(m)	1370	<b>738</b>	---	---
Zinc	ppm	ASTM D5185(m)	1500	<b>809</b>	---	---
Sulfur	ppm	ASTM D5185(m)	3800	<b>2966</b>	---	---
Oxidation	Abs/.1mm	ASTM D7414*	>25	<b>7.7</b>	---	---
Visc @ 100°C	cSt	ASTM D7279(m)	15.4	<b>9.4</b>	---	---

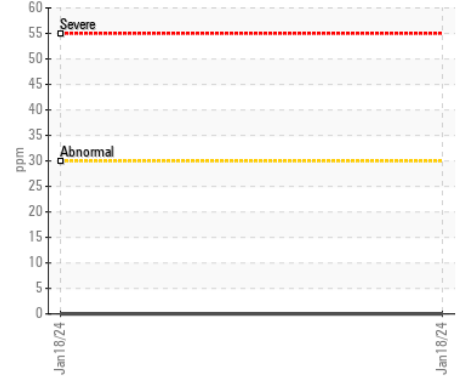
▲ Viscosity @ 100°C



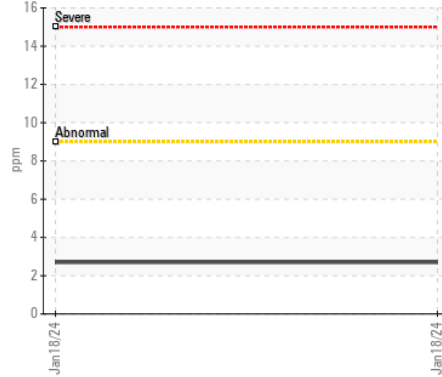
Iron (ppm)



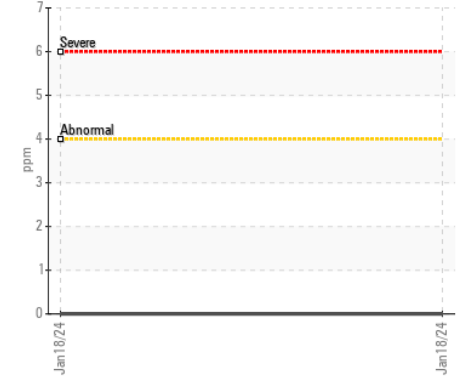
Lead (ppm)



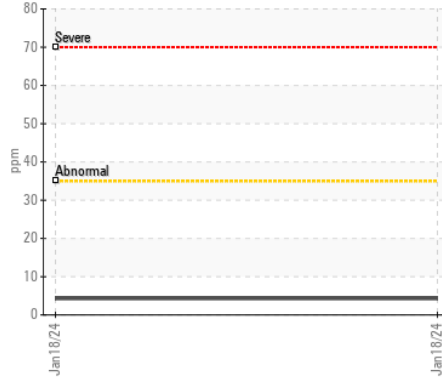
Aluminum (ppm)



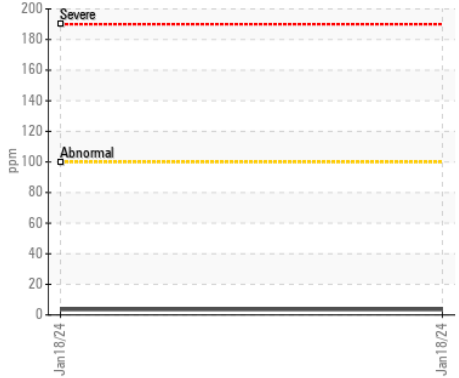
Chromium (ppm)



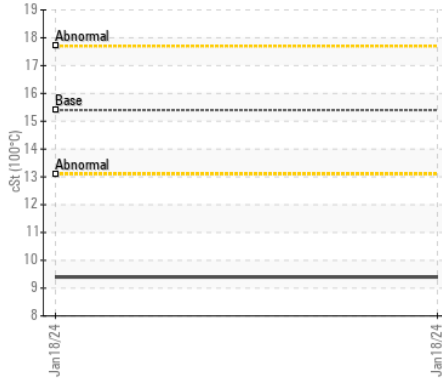
Copper (ppm)



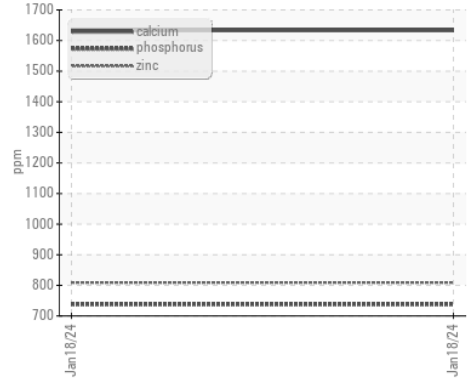
Silicon (ppm)



▲ Viscosity @ 100°C



Additives



ISO 17025:2017  
Accredited  
Laboratory

**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : PN0005666 **Received** : 24 Jan 2024  
**Lab Number** : 02610872 **Diagnosed** : 25 Jan 2024  
**Unique Number** : 5719967 **Diagnostician** : Kevin Marson  
**Test Package** : MOB 1

**POWER STATION INC.**  
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 Bkinkley@pwrstn.com  
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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.