



# OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id  
**4600 GERRARD**  
 Component  
**Diesel Engine**  
 Fluid  
**PETRO CANADA XR 4 SAE 15W40 (--- GAL)**

## RECOMMENDATION

Resample at the next service interval to monitor. Please specify the component make and model with your next sample.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>WC0940160</b>	WC0817462	---
Sample Date		Client Info		<b>27 May 2024</b>	31 May 2023	---
Machine Age	hrs	Client Info		<b>0</b>	0	---
Oil Age	hrs	Client Info		<b>0</b>	0	---
Filter Age	hrs	Client Info		<b>0</b>	0	---
Oil Changed		Client Info		<b>N/A</b>	N/A	---
Filter Changed		Client Info		<b>N/A</b>	N/A	---
Sample Status				<b>NORMAL</b>	NORMAL	---

## WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>100	<b>5</b>	9	---
Chromium	ppm	ASTM D5185(m)	>20	<b>0</b>	0	---
Nickel	ppm	ASTM D5185(m)	>4	<b>0</b>	0	---
Titanium	ppm	ASTM D5185(m)		<b>7</b>	92	---
Silver	ppm	ASTM D5185(m)	>3	<b>0</b>	0	---
Aluminum	ppm	ASTM D5185(m)	>20	<b>&lt;1</b>	2	---
Lead	ppm	ASTM D5185(m)	>40	<b>&lt;1</b>	<1	---
Copper	ppm	ASTM D5185(m)	>330	<b>&lt;1</b>	<1	---
Tin	ppm	ASTM D5185(m)	>15	<b>0</b>	0	---
Vanadium	ppm	ASTM D5185(m)		<b>0</b>	<1	---

## CONTAMINATION

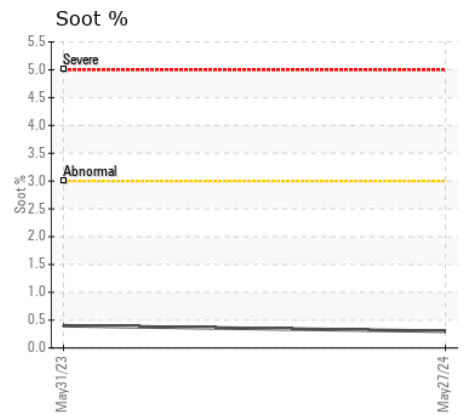
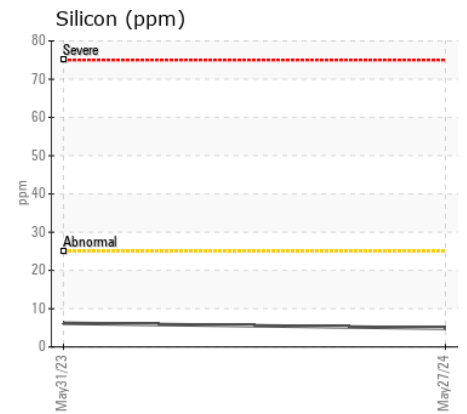
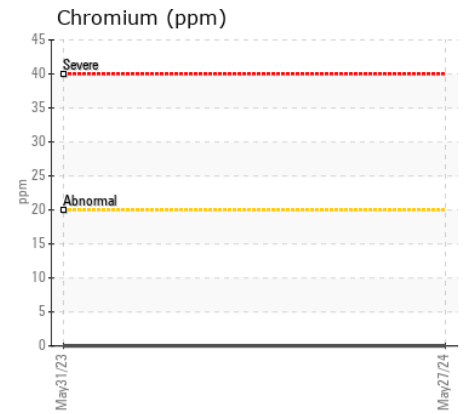
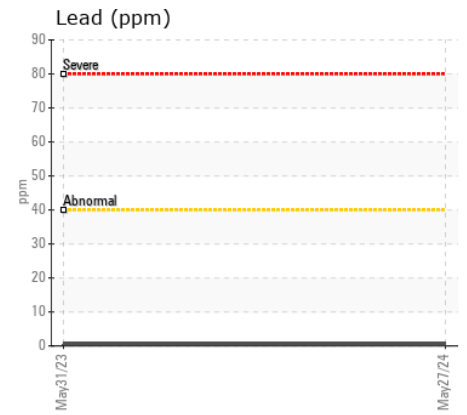
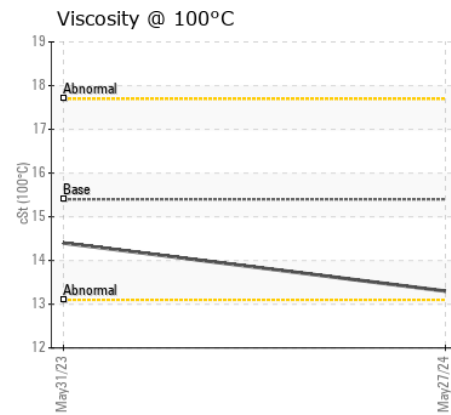
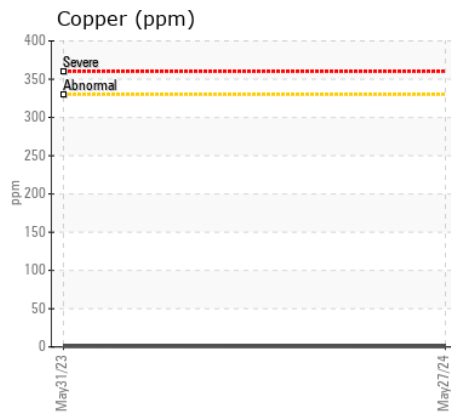
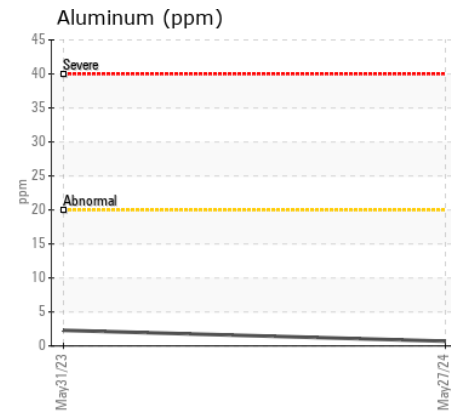
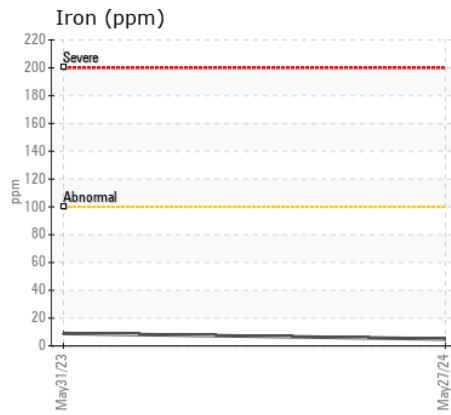
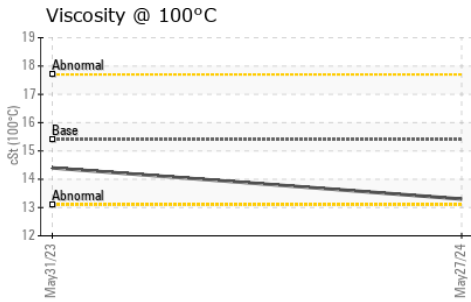
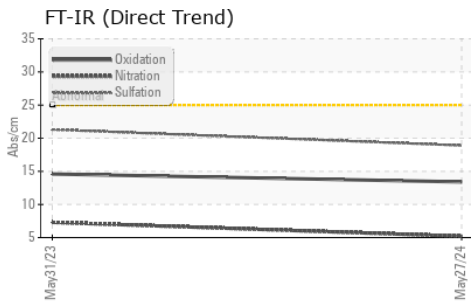
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>25	<b>5</b>	6	---
Potassium	ppm	ASTM D5185(m)	>20	<b>&lt;1</b>	3	---
Fuel		WC Method	>5	<b>&lt;1.0</b>	<1.0	---
Water		WC Method	>0.2	<b>NEG</b>	NEG	---
Glycol		WC Method		<b>NEG</b>	NEG	---
Soot %	%	ASTM D7844*	>3	<b>0.3</b>	0.4	---
Nitration	Abs/cm	ASTM D7624*	>20	<b>5.2</b>	7.3	---
Sulfation	Abs/.1mm	ASTM D7415*	>30	<b>18.9</b>	21.3	---
Emulsified Water	scalar	Visual*	>0.2	<b>NEG</b>	NEG	---

## FLUID CONDITION

The condition of the oil is acceptable for the time in service.

Sodium	ppm	ASTM D5185(m)		<b>1</b>	4	---
Boron	ppm	ASTM D5185(m)	1	<b>13</b>	141	---
Barium	ppm	ASTM D5185(m)	1	<b>0</b>	0	---
Molybdenum	ppm	ASTM D5185(m)	1	<b>54</b>	2	---
Manganese	ppm	ASTM D5185(m)		<b>&lt;1</b>	<1	---
Magnesium	ppm	ASTM D5185(m)	10	<b>906</b>	418	---
Calcium	ppm	ASTM D5185(m)	3032	<b>1108</b>	1748	---
Phosphorus	ppm	ASTM D5185(m)	1054	<b>1011</b>	1071	---
Zinc	ppm	ASTM D5185(m)	1332	<b>1169</b>	1160	---
Sulfur	ppm	ASTM D5185(m)	3985	<b>2874</b>	3340	---
Oxidation	Abs/.1mm	ASTM D7414*	>25	<b>13.4</b>	14.6	---
Visc @ 100°C	cSt	ASTM D7279(m)	15.4	<b>13.3</b>	14.4	---



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : WC0940160  
**Lab Number** : 02643127  
**Unique Number** : 5800666  
**Test Package** : MOB 1  
**Received** : 20 Jun 2024  
**Tested** : 20 Jun 2024  
**Diagnosed** : 20 Jun 2024 - Wes Davis

**NORTHERN GENERATOR CO. LTD.**  
 80 ASHBRIDGE CIRCLE., UNIT #1 & 2  
 WOODBRIDGE, ON  
 CA L4L 3R5  
 Contact: Selome Afework  
 selome@northerngenerator.com  
 T: (905)264-9744  
 F: (905)264-9714

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.