



# OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id  
**1463 EGLINTON**  
 Component  
**Diesel Engine**  
 Fluid  
**PETRO CANADA XR 4 SAE 15W40 (24 LTR)**

## RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>WC0897600</b>	WC0647781	WC0515824
Sample Date		Client Info		<b>23 Apr 2024</b>	15 Feb 2022	19 Feb 2021
Machine Age	hrs	Client Info		<b>650</b>	0	602
Oil Age	hrs	Client Info		<b>0</b>	0	0
Filter Age	hrs	Client Info		<b>0</b>	0	0
Oil Changed		Client Info		<b>N/A</b>	N/A	N/A
Filter Changed		Client Info		<b>N/A</b>	N/A	N/A
Sample Status				<b>NORMAL</b>	NORMAL	NORMAL

## WEAR

Metal levels are typical for a new component breaking in.

Iron	ppm	ASTM D5185(m)	>51	<b>3</b>	2	2
Chromium	ppm	ASTM D5185(m)	>11	<b>0</b>	0	<1
Nickel	ppm	ASTM D5185(m)	>5	<b>0</b>	<1	<1
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)	>31	<b>1</b>	<1	<1
Lead	ppm	ASTM D5185(m)	>26	<b>&lt;1</b>	1	<1
Copper	ppm	ASTM D5185(m)	>26	<b>1</b>	1	<1
Tin	ppm	ASTM D5185(m)	>4	<b>0</b>	<1	0
Vanadium	ppm	ASTM D5185(m)		<b>0</b>	0	0
White Metal	scalar	Visual*	NONE	<b>NONE</b>	---	---
Yellow Metal	scalar	Visual*	NONE	<b>NONE</b>	---	---

## CONTAMINATION

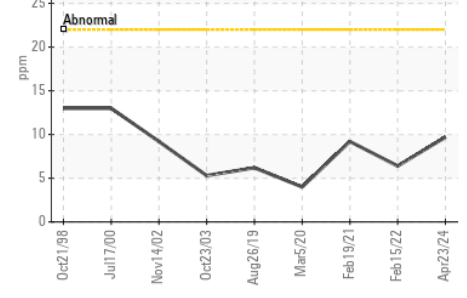
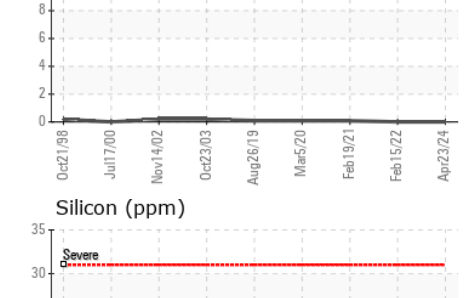
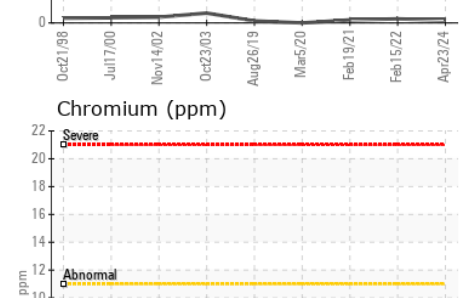
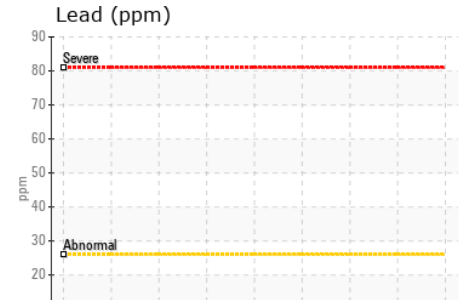
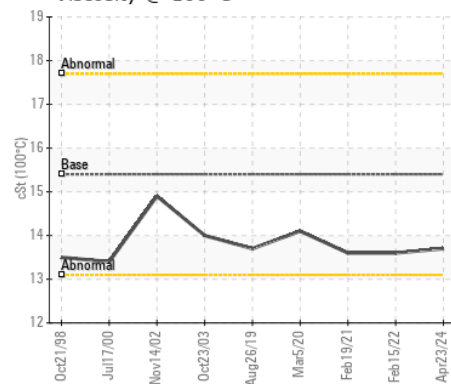
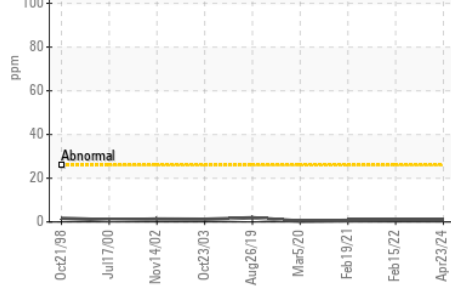
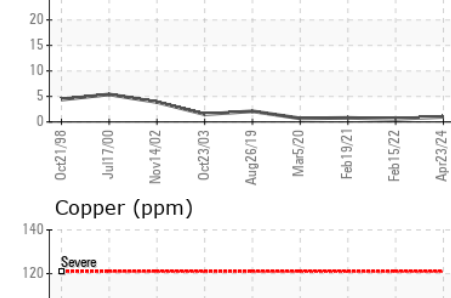
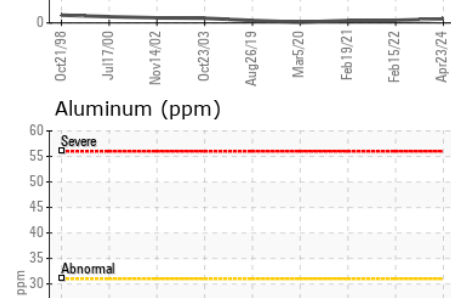
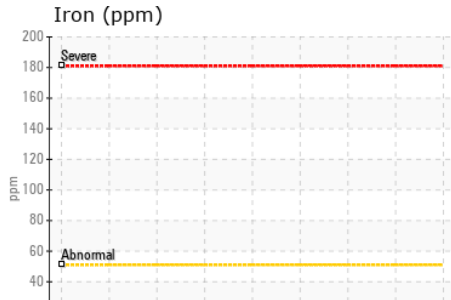
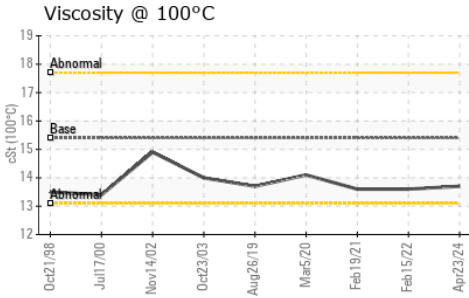
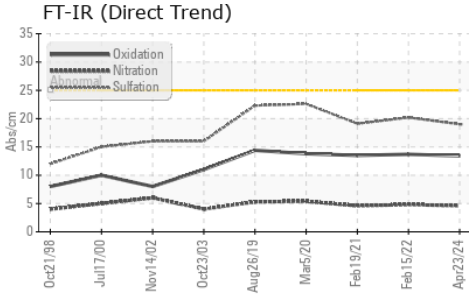
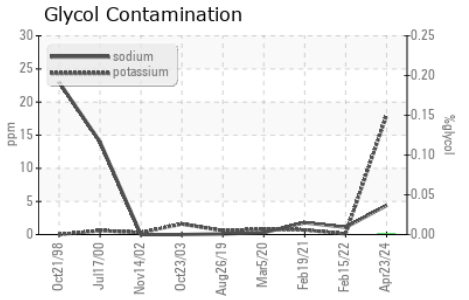
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>22	<b>10</b>	6	9
Potassium	ppm	ASTM D5185(m)	>20	<b>18</b>	<1	<1
Fuel		WC Method	>2.1	<b>&lt;1.0</b>	<1.0	<1.0
Water		WC Method	>0.21	<b>NEG</b>	NEG	NEG
Glycol	%	ASTM D7922*		<b>0.0</b>	NEG	NEG
Soot %	%	ASTM D7844*	>3	<b>0</b>	0	0
Nitration	Abs/cm	ASTM D7624*	>20	<b>4.6</b>	4.8	4.6
Sulfation	Abs/.1mm	ASTM D7415*	>30	<b>19.0</b>	20.2	19.1
Silt	scalar	Visual*	NONE	<b>NONE</b>	---	---
Debris	scalar	Visual*	NONE	<b>VLITE</b>	---	---
Sand/Dirt	scalar	Visual*	NONE	<b>NONE</b>	---	---
Appearance	scalar	Visual*	NORML	<b>NORML</b>	---	---
Odor	scalar	Visual*	NORML	<b>NORML</b>	NORML	---
Emulsified Water	scalar	Visual*	>0.21	<b>NEG</b>	NEG	NEG

## FLUID CONDITION

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

Sodium	ppm	ASTM D5185(m)	>31	<b>4</b>	1	2
Boron	ppm	ASTM D5185(m)	1	<b>140</b>	1	2
Barium	ppm	ASTM D5185(m)	1	<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185(m)	1	<b>68</b>	58	55
Manganese	ppm	ASTM D5185(m)		<b>0</b>	<1	<1
Magnesium	ppm	ASTM D5185(m)	10	<b>789</b>	971	967
Calcium	ppm	ASTM D5185(m)	3032	<b>1161</b>	1027	1006
Phosphorus	ppm	ASTM D5185(m)	1054	<b>994</b>	1075	997
Zinc	ppm	ASTM D5185(m)	1332	<b>1139</b>	1205	1220
Sulfur	ppm	ASTM D5185(m)	3985	<b>2619</b>	2789	2852
Oxidation	Abs/.1mm	ASTM D7414*	>25	<b>13.4</b>	13.7	13.5
Visc @ 100°C	cSt	ASTM D7279(m)	15.4	<b>13.7</b>	13.6	13.6



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : WC0897600  
**Lab Number** : 02633031  
**Unique Number** : 5774184  
**Test Package** : MOB 1 ( Additional Tests: Glycol, Visual )  
**Received** : 03 May 2024  
**Tested** : 03 May 2024  
**Diagnosed** : 03 May 2024 - Wes Davis

**NORTHERN GENERATOR CO. LTD.**  
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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.