



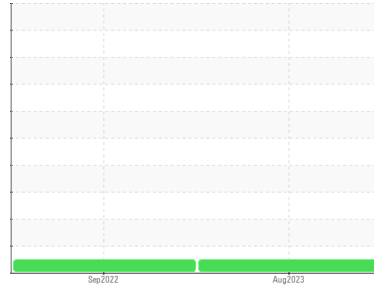
# OIL ANALYSIS REPORT

Sample Rating Trend

**NORMAL**



Machine Id  
**OR872**  
Component  
**Front Differential**  
Fluid  
**PETRO CANADA PRODURO TO-4 SAE 30 (--- GAL)**



## DIAGNOSIS

### Recommendation

Resample at the next service interval to monitor.

### Wear

All component wear rates are normal.

### Contamination

There is no indication of any contamination in the oil.

### Fluid Condition

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

## SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		<b>GFL0077029</b>	GFL0054682	---
Sample Date	Client Info		<b>10 Aug 2023</b>	02 Sep 2022	---
Machine Age	hrs	Client Info	<b>20882</b>	19622	---
Oil Age	hrs	Client Info	<b>1260</b>	1500	---
Oil Changed	Client Info		<b>Not Chngd</b>	Not Chngd	---
Sample Status			<b>NORMAL</b>	NORMAL	---

## WEAR METALS

	method	limit/base	current	history1	history2	
Iron	ppm	ASTM D5185(m)	>500	<b>63</b>	52	---
Chromium	ppm	ASTM D5185(m)	>3	<b>&lt;1</b>	0	---
Nickel	ppm	ASTM D5185(m)	>3	<b>&lt;1</b>	<1	---
Titanium	ppm	ASTM D5185(m)	>2	<b>&lt;1</b>	<1	---
Silver	ppm	ASTM D5185(m)	>2	<b>0</b>	0	---
Aluminum	ppm	ASTM D5185(m)	>30	<b>2</b>	2	---
Lead	ppm	ASTM D5185(m)	>13	<b>&lt;1</b>	<1	---
Copper	ppm	ASTM D5185(m)	>103	<b>13</b>	12	---
Tin	ppm	ASTM D5185(m)	>5	<b>&lt;1</b>	<1	---
Antimony	ppm	ASTM D5185(m)	>5	<b>0</b>	0	---
Vanadium	ppm	ASTM D5185(m)		<b>0</b>	0	---
Beryllium	ppm	ASTM D5185(m)		<b>0</b>	0	---
Cadmium	ppm	ASTM D5185(m)		<b>0</b>	0	---

## ADDITIVES

	method	limit/base	current	history1	history2	
Boron	ppm	ASTM D5185(m)	2	<b>2</b>	4	---
Barium	ppm	ASTM D5185(m)	0	<b>0</b>	0	---
Molybdenum	ppm	ASTM D5185(m)	0	<b>&lt;1</b>	<1	---
Manganese	ppm	ASTM D5185(m)	9	<b>&lt;1</b>	<1	---
Magnesium	ppm	ASTM D5185(m)	1	<b>11</b>	10	---
Calcium	ppm	ASTM D5185(m)	3131	<b>3073</b>	3080	---
Phosphorus	ppm	ASTM D5185(m)	1194	<b>1068</b>	1025	---
Zinc	ppm	ASTM D5185(m)	1281	<b>1226</b>	1154	---
Sulfur	ppm	ASTM D5185(m)	3811	<b>3836</b>	3735	---
Lithium	ppm	ASTM D5185(m)		<b>&lt;1</b>	<1	---

## CONTAMINANTS

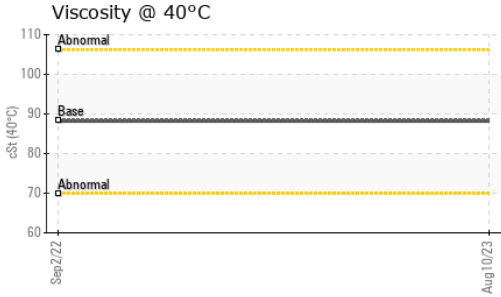
	method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185(m)	>100	<b>8</b>	8	---
Sodium	ppm	ASTM D5185(m)		<b>&lt;1</b>	1	---
Potassium	ppm	ASTM D5185(m)	>20	<b>&lt;1</b>	2	---

## VISUAL

	method	limit/base	current	history1	history2	
White Metal	scalar	Visual*	NONE	<b>NONE</b>	NONE	---
Yellow Metal	scalar	Visual*	NONE	<b>NONE</b>	NONE	---
Precipitate	scalar	Visual*	NONE	<b>NONE</b>	NONE	---
Silt	scalar	Visual*	NONE	<b>NONE</b>	NONE	---
Debris	scalar	Visual*	NONE	<b>VLITE</b>	NONE	---
Sand/Dirt	scalar	Visual*	NONE	<b>NONE</b>	NONE	---
Appearance	scalar	Visual*	NORML	<b>NORML</b>	NORML	---
Odor	scalar	Visual*	NORML	<b>NORML</b>	NORML	---
Emulsified Water	scalar	Visual*	>.2	<b>NEG</b>	NEG	---
Free Water	scalar	Visual*		<b>NEG</b>	NEG	---



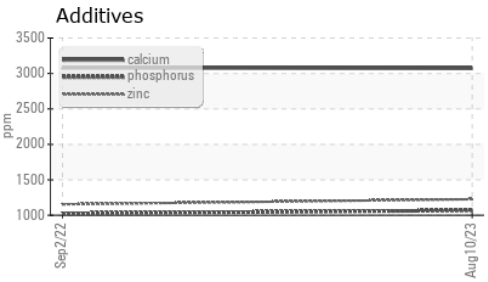
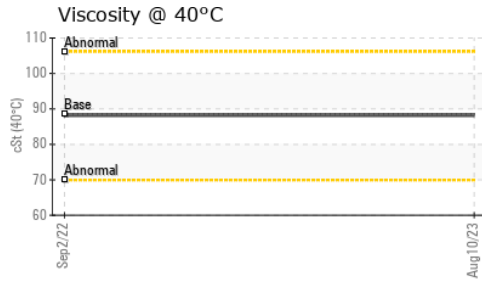
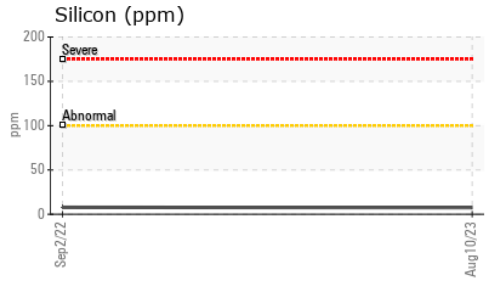
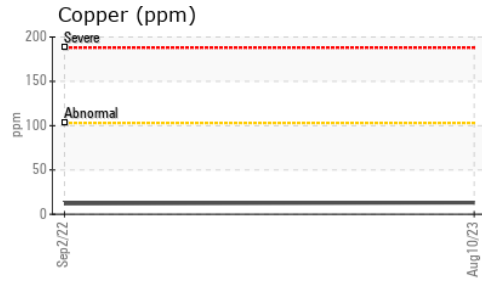
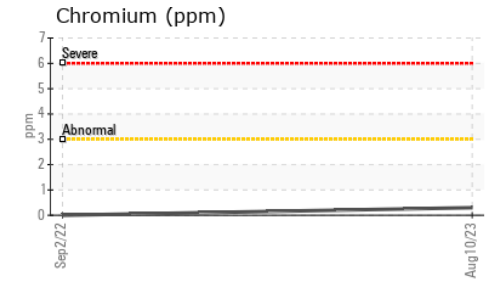
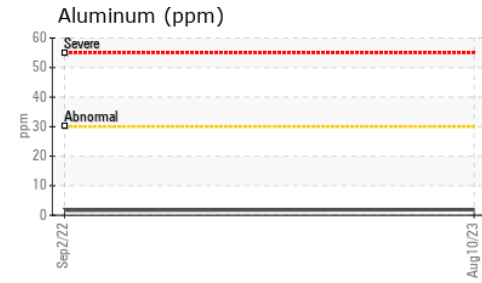
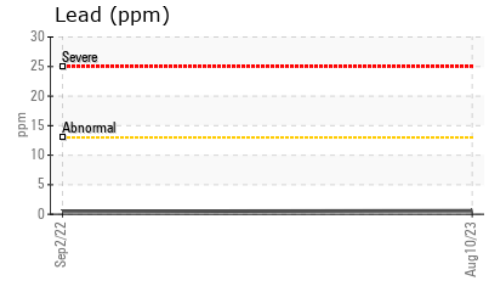
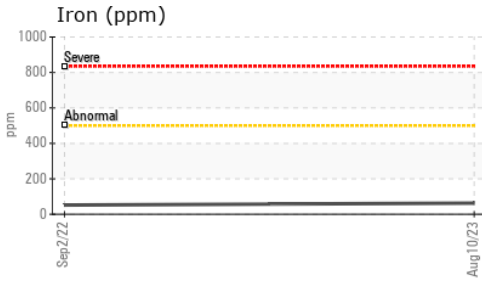
# OIL ANALYSIS REPORT



FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D7279(m)	88.5	<b>88.2</b>	88.2	---

SAMPLE IMAGES		method	limit/base	current	history1	history2
Color						no image
Bottom						no image

## GRAPHS



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 GFL Environmental - 575 - Squamish Hauling  
**Sample No.** : GFL0077029 **Received** : 15 Aug 2023 38950 Queens Way,  
**Lab Number** : 02575975 **Diagnosed** : 15 Aug 2023 Squamish, BC  
**Unique Number** : 5629035 **Diagnostician** : Wes Davis CA V8B 0K8  
**Test Package** : MOB 1

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.

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