

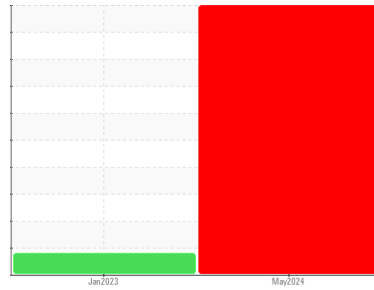


# OIL ANALYSIS REPORT



Machine Id  
**OR874**  
Component  
**Front Differential**  
Fluid  
**PETRO CANADA DURATRAN (--- GAL)**

Sample Rating Trend



## DIAGNOSIS

### ▲ Recommendation

The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition.

### ▲ Wear

Iron ppm levels are severe. PQ levels are severe. Gear wear is indicated. The very high ferrous density (PQ) index indicates that severe wear is occurring.

### Contamination

There is no indication of any contamination in the oil.

### Fluid Condition

The oil is no longer serviceable as a result of the abnormal and/or severe wear.

## SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		<b>GFL0100616</b>	GFL0054609	---
Sample Date	Client Info		<b>19 May 2024</b>	25 Jan 2023	---
Machine Age	hrs	Client Info	<b>15203</b>	13773	---
Oil Age	hrs	Client Info	<b>1430</b>	1096	---
Oil Changed	Client Info		<b>Changed</b>	Not Changd	---
Sample Status			<b>SEVERE</b>	ABNORMAL	---

## CONTAMINATION

	method	limit/base	current	history1	history2
Water	WC Method	>.2	<b>NEG</b>	NEG	---

## WEAR METALS

	method	limit/base	current	history1	history2
PQ	ASTM D8184*		<b>▲ 1060</b>	214	---
Iron	ppm	ASTM D5185(m) >500	<b>▲ 2446</b>	▲ 998	---
Chromium	ppm	ASTM D5185(m) >10	<b>2</b>	<1	---
Nickel	ppm	ASTM D5185(m) >10	<b>&lt;1</b>	<1	---
Titanium	ppm	ASTM D5185(m)	<b>&lt;1</b>	<1	---
Silver	ppm	ASTM D5185(m)	<b>0</b>	0	---
Aluminum	ppm	ASTM D5185(m) >25	<b>4</b>	2	---
Lead	ppm	ASTM D5185(m) >25	<b>0</b>	0	---
Copper	ppm	ASTM D5185(m) >100	<b>3</b>	1	---
Tin	ppm	ASTM D5185(m) >10	<b>0</b>	0	---
Antimony	ppm	ASTM D5185(m) >5	<b>0</b>	<1	---
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

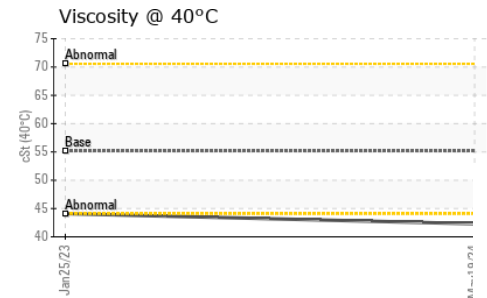
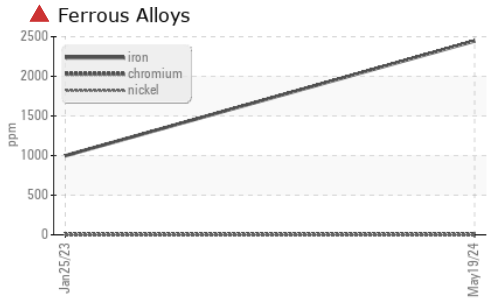
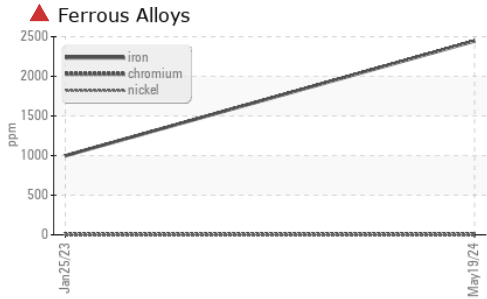
	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m) 110	<b>84</b>	74	---
Barium	ppm	ASTM D5185(m) 0.0	<b>0</b>	0	---
Molybdenum	ppm	ASTM D5185(m) 0.0	<b>0</b>	<1	---
Manganese	ppm	ASTM D5185(m) 1	<b>17</b>	7	---
Magnesium	ppm	ASTM D5185(m) 13	<b>17</b>	13	---
Calcium	ppm	ASTM D5185(m) 3610	<b>3593</b>	3427	---
Phosphorus	ppm	ASTM D5185(m) 1192	<b>1169</b>	1227	---
Zinc	ppm	ASTM D5185(m) 1455	<b>1259</b>	1204	---
Sulfur	ppm	ASTM D5185(m) 2641	<b>3098</b>	2953	---
Lithium	ppm	ASTM D5185(m)	<b>&lt;1</b>	<1	---

## CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m) >75	<b>18</b>	11	---
Sodium	ppm	ASTM D5185(m)	<b>6</b>	5	---
Potassium	ppm	ASTM D5185(m) >20	<b>1</b>	1	---



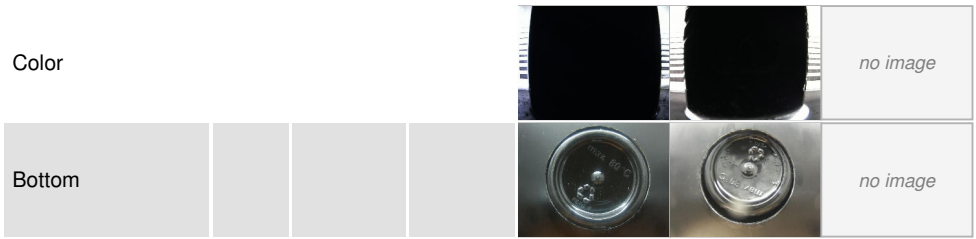
# OIL ANALYSIS REPORT



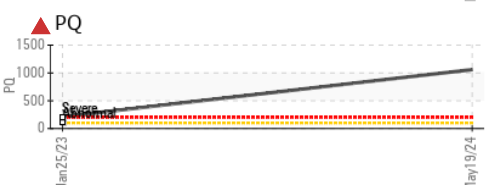
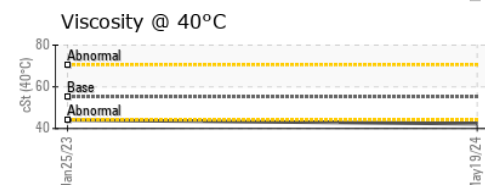
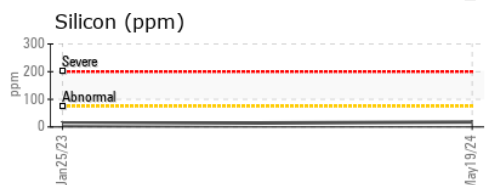
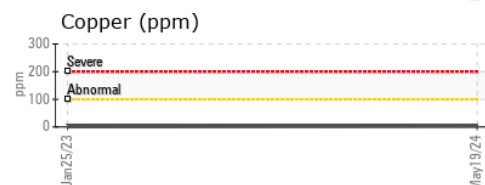
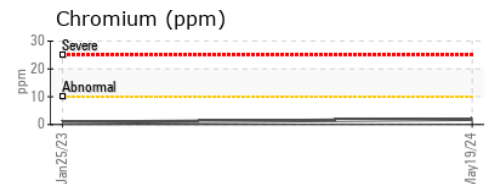
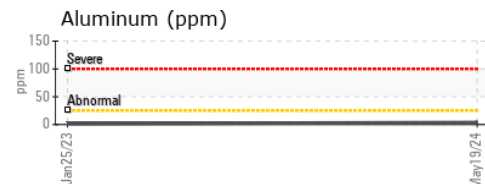
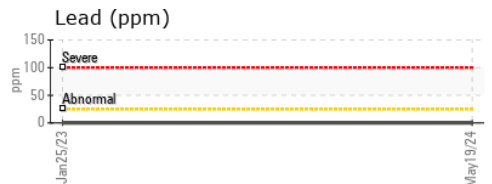
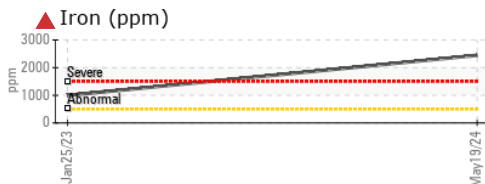
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	Visual*	NONE	NONE	---
Yellow Metal	scalar	Visual*	NONE	VLITE	---
Precipitate	scalar	Visual*	NONE	NONE	---
Silt	scalar	Visual*	NONE	VLITE	---
Debris	scalar	Visual*	NONE	NONE	---
Sand/Dirt	scalar	Visual*	NONE	NONE	---
Appearance	scalar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

FLUID PROPERTIES	method	limit/base	current	history1	history2	
Visc @ 40°C	cSt	ASTM D7279(m)	55.14	<b>42.3</b>	44.1	---

SAMPLE IMAGES	method	limit/base	current	history1	history2
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## GRAPHS



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : GFL0100616      **Received** : 22 May 2024  
**Lab Number** : 02636998      **Tested** : 22 May 2024  
**Unique Number** : 5786160      **Diagnosed** : 22 May 2024 - Kevin Marson  
**Test Package** : MOB 1 ( Additional Tests: PQ )

**GFL Environmental - 575 - Squamish Hauling**  
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 Squamish, BC  
 CA V8B 0K8  
 Contact: Dean Imbeau  
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 T: (604)892-5604  
 F: (604)892-5238

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.