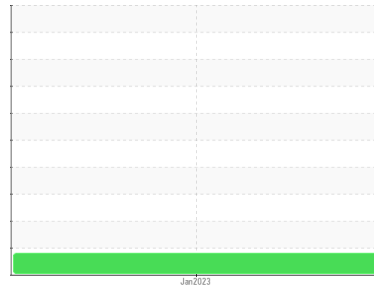




# OIL ANALYSIS REPORT

Sample Rating Trend



**WEAR**



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

## DIAGNOSIS

### ▲ Recommendation

We recommend that you drain the oil from the component if this has not already been done. We recommend an early resample to monitor this condition.

### ▲ Wear

Iron ppm levels are abnormal. The low ferrous density (PQ) index indicates the wear metal levels are due to corrosion.

### 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>GFL0054609</b>	---	---
Sample Date	Client Info		<b>25 Jan 2023</b>	---	---
Machine Age	hrs	Client Info	<b>13773</b>	---	---
Oil Age	hrs	Client Info	<b>1096</b>	---	---
Oil Changed	Client Info		<b>Not Chngd</b>	---	---
Sample Status			<b>ABNORMAL</b>	---	---

## CONTAMINATION

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

## WEAR METALS

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

## ADDITIVES

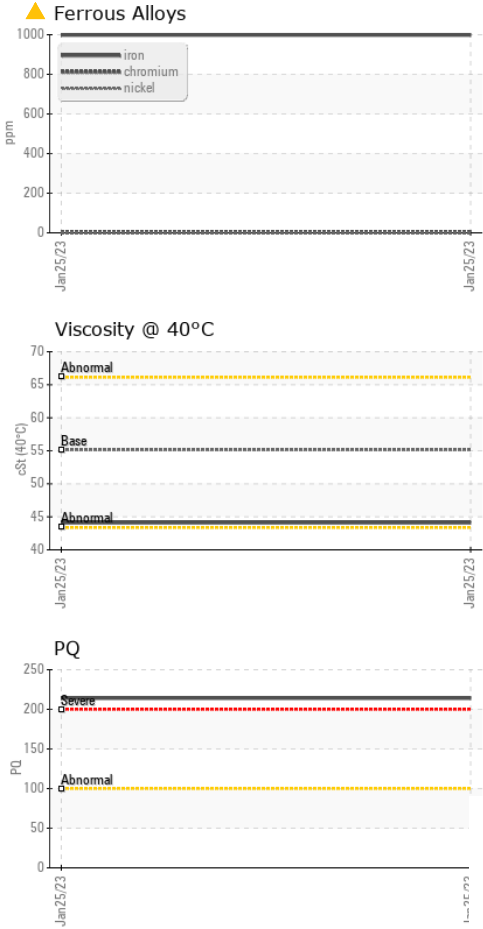
	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m) 110	<b>74</b>	---	---
Barium	ppm	ASTM D5185(m) 0.0	<b>0</b>	---	---
Molybdenum	ppm	ASTM D5185(m) 0.0	<b>&lt;1</b>	---	---
Manganese	ppm	ASTM D5185(m) 1	<b>7</b>	---	---
Magnesium	ppm	ASTM D5185(m) 13	<b>13</b>	---	---
Calcium	ppm	ASTM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

## CONTAMINANTS

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



# OIL ANALYSIS REPORT



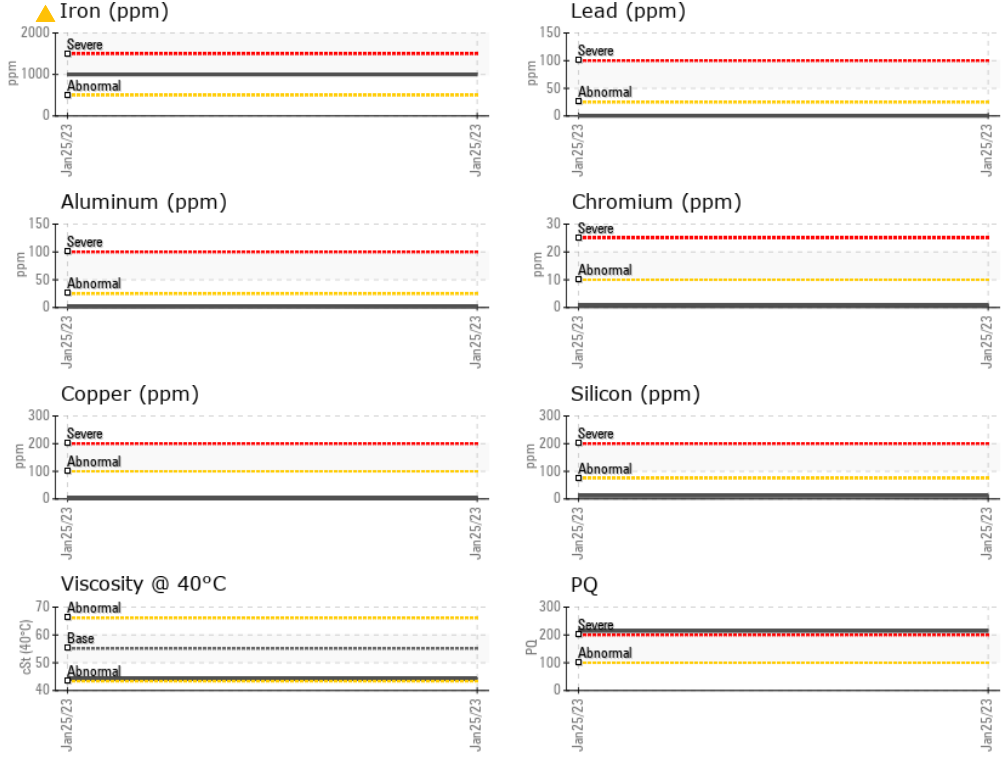
PROPERTY	method	limit/base	current	history1	history2
White Metal	scalar	Visual*	NONE	---	---
Yellow Metal	scalar	Visual*	NONE	---	---
Precipitate	scalar	Visual*	NONE	---	---
Silt	scalar	Visual*	NONE	---	---
Debris	scalar	Visual*	NONE	---	---
Sand/Dirt	scalar	Visual*	NONE	---	---
Appearance	scalar	Visual*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

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

### SAMPLE IMAGES

PROPERTY	method	limit/base	current	history1	history2
Color				no image	no image
Bottom				no image	no image

### GRAPHS



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : GFL0054609  
**Lab Number** : 02536755  
**Unique Number** : 5525755  
**Test Package** : MOB 1 ( Additional Tests: PQ )

**Received** : 31 Jan 2023  
**Tested** : 01 Feb 2023  
**Diagnosed** : 02 Feb 2023 - Kevin Marson

**GFL Environmental - 575 - Squamish Hauling**  
 38950 Queens Way,  
 Squamish, BC  
 CA V8B 0K8  
 Contact: Dean Imbeau  
 dimbeau@gflenv.com  
 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.