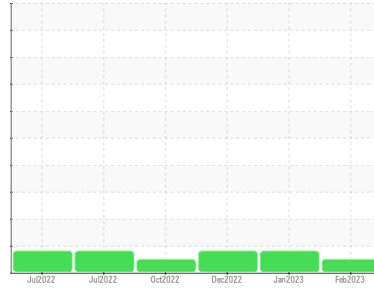




# OIL ANALYSIS REPORT

Sample Rating Trend



**NORMAL**



Area  
**166**  
 Machine Id  
**921067-64**  
 Component  
**Transmission (Auto)**  
 Fluid

**PETRO CANADA DuraDrive HD Synthetic 668 (--- 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 fluid.

### Fluid Condition

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

## SAMPLE INFORMATION

method	limit/base	current	history1	history2
Sample Number	Client Info	<b>GFL0074852</b>	GFL0070564	GFL0058725
Sample Date	Client Info	<b>20 Feb 2023</b>	06 Jan 2023	29 Dec 2022
Machine Age	hrs	<b>3158</b>	83607	75435
Oil Age	hrs	<b>600</b>	600	0
Oil Changed	Client Info	<b>Not Chngd</b>	N/A	Not Chngd
Sample Status		<b>NORMAL</b>	ABNORMAL	ABNORMAL

## WEAR METALS

method	limit/base	current	history1	history2	
Iron	ppm	ASTM D5185m >160	<b>65</b>	76	85
Chromium	ppm	ASTM D5185m >5	<b>&lt;1</b>	<1	<1
Nickel	ppm	ASTM D5185m >5	<b>&lt;1</b>	<1	<1
Titanium	ppm	ASTM D5185m	<b>0</b>	0	0
Silver	ppm	ASTM D5185m >5	<b>&lt;1</b>	0	0
Aluminum	ppm	ASTM D5185m >50	<b>42</b>	▲ 51	▲ 61
Lead	ppm	ASTM D5185m >50	<b>18</b>	23	28
Copper	ppm	ASTM D5185m >225	<b>11</b>	16	15
Tin	ppm	ASTM D5185m >10	<b>4</b>	5	6
Vanadium	ppm	ASTM D5185m	<b>0</b>	0	0
Cadmium	ppm	ASTM D5185m	<b>0</b>	0	0

## ADDITIVES

method	limit/base	current	history1	history2	
Boron	ppm	ASTM D5185m	<b>82</b>	78	83
Barium	ppm	ASTM D5185m	<b>&lt;1</b>	0	0
Molybdenum	ppm	ASTM D5185m	<b>&lt;1</b>	<1	1
Manganese	ppm	ASTM D5185m	<b>1</b>	1	1
Magnesium	ppm	ASTM D5185m	<b>3</b>	<1	<1
Calcium	ppm	ASTM D5185m	<b>106</b>	80	81
Phosphorus	ppm	ASTM D5185m	<b>225</b>	242	260
Zinc	ppm	ASTM D5185m	<b>12</b>	0	6
Sulfur	ppm	ASTM D5185m	<b>1308</b>	1051	1157

## CONTAMINANTS

method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185m >20	<b>8</b>	8	8
Sodium	ppm	ASTM D5185m	<b>4</b>	7	6
Potassium	ppm	ASTM D5185m >20	<b>2</b>	1	3

## VISUAL

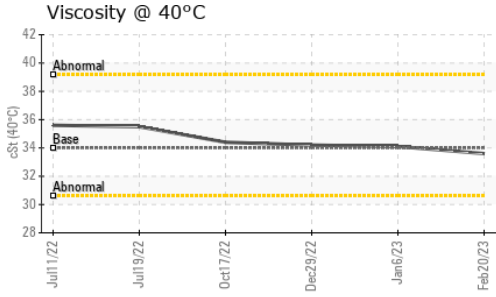
method	limit/base	current	history1	history2	
White Metal	scalar	*Visual NONE	<b>NONE</b>	NONE	NONE
Yellow Metal	scalar	*Visual NONE	<b>NONE</b>	NONE	NONE
Precipitate	scalar	*Visual NONE	<b>NONE</b>	NONE	NONE
Silt	scalar	*Visual NONE	<b>NONE</b>	NONE	NONE
Debris	scalar	*Visual NONE	<b>NONE</b>	NONE	NONE
Sand/Dirt	scalar	*Visual NONE	<b>NONE</b>	NONE	NONE
Appearance	scalar	*Visual NORML	<b>NORML</b>	NORML	NORML
Odor	scalar	*Visual NORML	<b>NORML</b>	NORML	NORML
Emulsified Water	scalar	*Visual >0.1	<b>NEG</b>	NEG	NEG
Free Water	scalar	*Visual	<b>NEG</b>	NEG	NEG

## FLUID PROPERTIES

method	limit/base	current	history1	history2	
Visc @ 40°C	cSt	ASTM D445 34	<b>33.6</b>	34.1	34.2

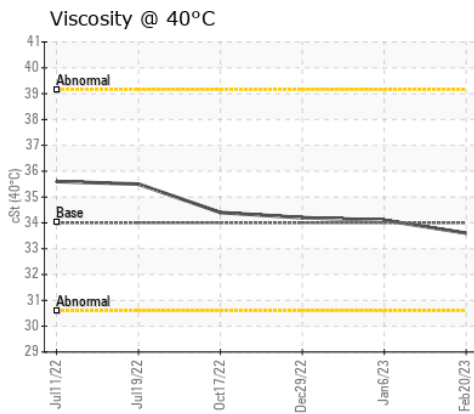
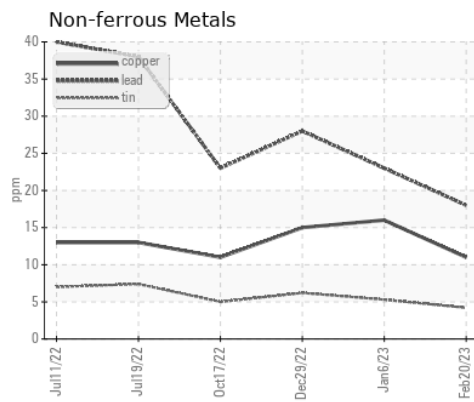
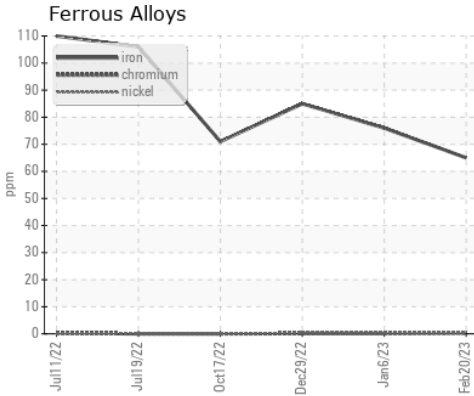


# OIL ANALYSIS REPORT



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

## GRAPHS



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : GFL0074852      **Received** : 24 Feb 2023  
**Lab Number** : 05776508      **Diagnosed** : 27 Feb 2023  
**Unique Number** : 10351125      **Diagnostician** : Angela Borella  
**Test Package** : FLEET

**GFL Environmental - Non-Engine**  
 US  
 Contact: Service Manager

To discuss this sample report, contact Customer Service at 1-800-237-1369.  
 \* - Denotes test methods that are outside of the ISO 17025 scope of accreditation.  
 Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)