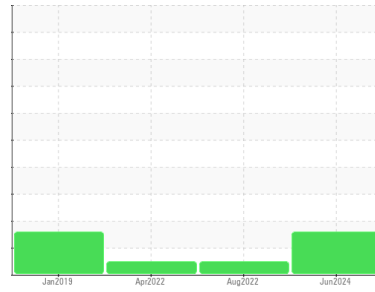




# OIL ANALYSIS REPORT

Sample Rating Trend



**WEAR**



Machine Id

**801074**

Component

**Transmission (Auto)**

Fluid

**PETRO CANADA DuraDrive HD Synthetic 668 (--- GAL)**

## DIAGNOSIS

### Recommendation

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

### Wear

Aluminum and iron ppm levels are abnormal. Torque converter wear is indicated. 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 fluid.

### Fluid Condition

The AN level is acceptable for this fluid. The fluid 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>GFL0117264</b>	GFL0057781	GFL0049107
Sample Date	Client Info		<b>06 Jun 2024</b>	05 Aug 2022	13 Apr 2022
Machine Age	hrs	Client Info	<b>0</b>	550	10293
Oil Age	hrs	Client Info	<b>0</b>	0	4069
Oil Changed	Client Info		<b>Changed</b>	Changed	N/A
Sample Status			<b>ABNORMAL</b>	NORMAL	NORMAL

## CONTAMINATION

	method	limit/base	current	history1	history2
Water	WC Method	>0.1	<b>NEG</b>	NEG	NEG

## WEAR METALS

	method	limit/base	current	history1	history2
PQ	ASTM D8184*	>50	<b>1</b>	---	0
Iron	ppm	ASTM D5185(m)	>160	<b>▲ 244</b>	75
Chromium	ppm	ASTM D5185(m)	>5	<b>&lt;1</b>	0
Nickel	ppm	ASTM D5185(m)	>5	<b>0</b>	<1
Titanium	ppm	ASTM D5185(m)		<b>0</b>	0
Silver	ppm	ASTM D5185(m)	>5	<b>0</b>	0
Aluminum	ppm	ASTM D5185(m)	>50	<b>▲ 92</b>	36
Lead	ppm	ASTM D5185(m)	>50	<b>11</b>	6
Copper	ppm	ASTM D5185(m)	>225	<b>29</b>	10
Tin	ppm	ASTM D5185(m)	>10	<b>6</b>	1
Antimony	ppm	ASTM D5185(m)		<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)	78	<b>76</b>	115
Barium	ppm	ASTM D5185(m)		<b>&lt;1</b>	0
Molybdenum	ppm	ASTM D5185(m)	0	<b>0</b>	<1
Manganese	ppm	ASTM D5185(m)		<b>2</b>	1
Magnesium	ppm	ASTM D5185(m)	0	<b>2</b>	4
Calcium	ppm	ASTM D5185(m)	113	<b>130</b>	133
Phosphorus	ppm	ASTM D5185(m)	222	<b>258</b>	295
Zinc	ppm	ASTM D5185(m)		<b>16</b>	8
Sulfur	ppm	ASTM D5185(m)	1326	<b>1413</b>	1783
Lithium	ppm	ASTM D5185(m)		<b>&lt;1</b>	<1

## CONTAMINANTS

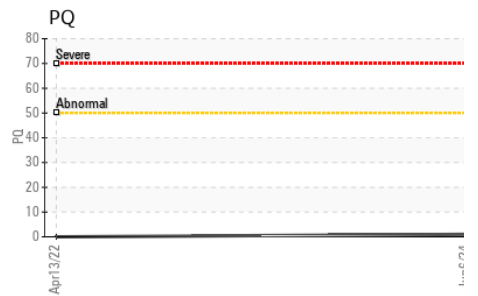
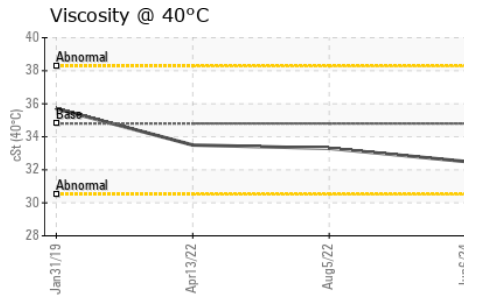
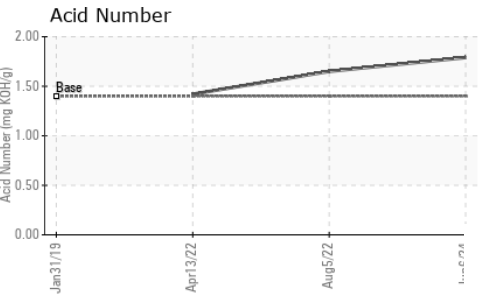
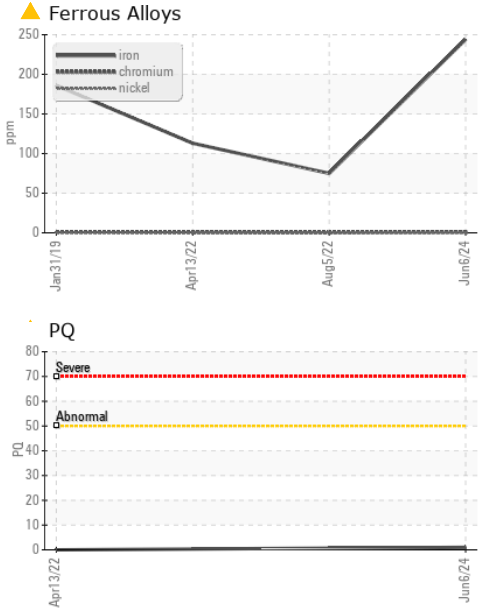
	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>20	<b>16</b>	8
Sodium	ppm	ASTM D5185(m)		<b>11</b>	6
Potassium	ppm	ASTM D5185(m)	>20	<b>3</b>	2

## FLUID DEGRADATION

	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D974*	1.4	<b>1.79</b>	1.65



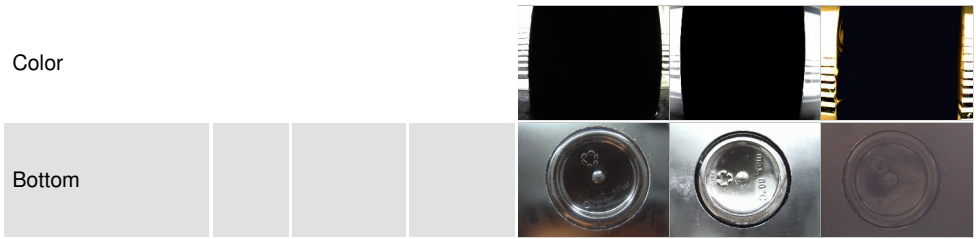
# OIL ANALYSIS REPORT



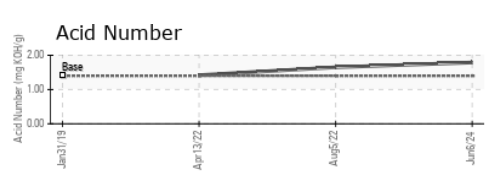
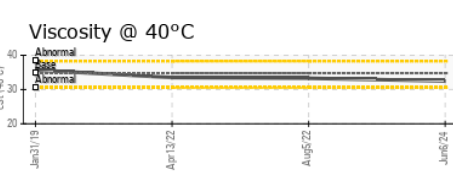
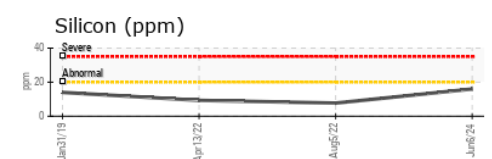
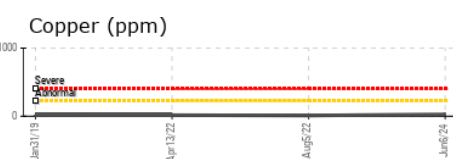
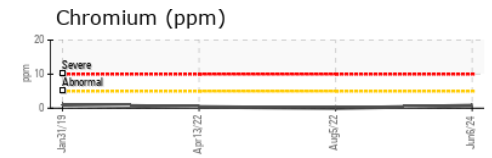
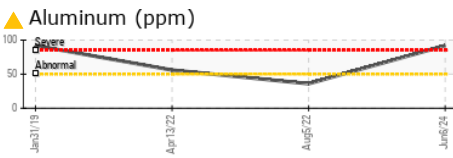
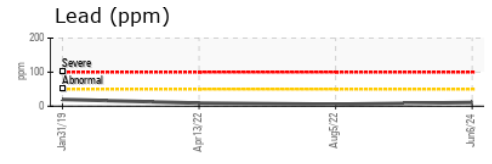
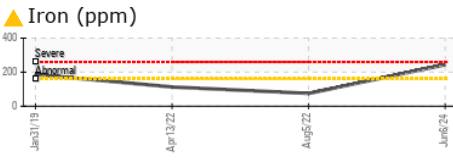
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	Visual*	NONE	NONE	NONE
Yellow Metal	scalar	Visual*	NONE	NONE	NONE
Precipitate	scalar	Visual*	NONE	NONE	NONE
Silt	scalar	Visual*	NONE	NONE	NONE
Debris	scalar	Visual*	NONE	NONE	VLITE
Sand/Dirt	scalar	Visual*	NONE	VLITE	NONE
Appearance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

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D7279(m)	34.8	32.5	33.3

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.** : GFL0117264  
**Lab Number** : 02641189  
**Unique Number** : 5798728  
**Test Package** : MOB 2 ( Additional Tests: PQ, TAN Man )

**Received** : 11 Jun 2024  
**Tested** : 11 Jun 2024  
**Diagnosed** : 12 Jun 2024 - Kevin Marson

**GFL Environmental - 550 - Rocky View County**  
 220 Carmek Blvd  
 Rocky View County, AB  
 CA T1X 1X1  
 Contact: GFL Calgary  
 calgarymaintenance@gflenv.com

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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