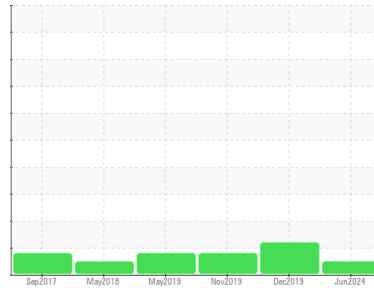




# OIL ANALYSIS REPORT

Sample Rating Trend



**NORMAL**



Machine Id  
**9145**  
 Component  
**Transmission (Auto)**  
 Fluid  
**PETRO CANADA DuraDrive HD Synthetic 668 (--- GAL)**

## DIAGNOSIS

### Recommendation

The fluid change at the time of sampling has been noted. Resample at the next service interval to monitor.

### Wear

An increase in the copper level is noted. All other 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>GFL0125471</b>	PC0017076	PC0021544
Sample Date	Client Info		<b>26 Jun 2024</b>	12 Dec 2019	14 Nov 2019
Machine Age	hrs	Client Info	<b>15059</b>	7560	85067
Oil Age	hrs	Client Info	<b>0</b>	0	0
Oil Changed	Client Info		<b>Changed</b>	Not Chngd	N/A
Sample Status			<b>NORMAL</b>	ABNORMAL	ABNORMAL

## 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
Iron	ppm	ASTM D5185(m) >220	<b>111</b>	21	37
Chromium	ppm	ASTM D5185(m) >2	<b>&lt;1</b>	<1	<1
Nickel	ppm	ASTM D5185(m) >5	<b>&lt;1</b>	1	▲ 23
Titanium	ppm	ASTM D5185(m)	<b>0</b>	0	0
Silver	ppm	ASTM D5185(m) >5	<b>0</b>	0	<1
Aluminum	ppm	ASTM D5185(m) >75	<b>15</b>	6	11
Lead	ppm	ASTM D5185(m) >95	<b>12</b>	2	7
Copper	ppm	ASTM D5185(m) >60	<b>51</b>	5	5
Tin	ppm	ASTM D5185(m) >10	<b>2</b>	<1	<1
Antimony	ppm	ASTM D5185(m) >2	<b>0</b>	<1	<1
Vanadium	ppm	ASTM D5185(m)	<b>0</b>	0	0
Beryllium	ppm	ASTM D5185(m)	<b>0</b>	0	0
Cadmium	ppm	ASTM D5185(m)	<b>0</b>	0	0

## ADDITIVES

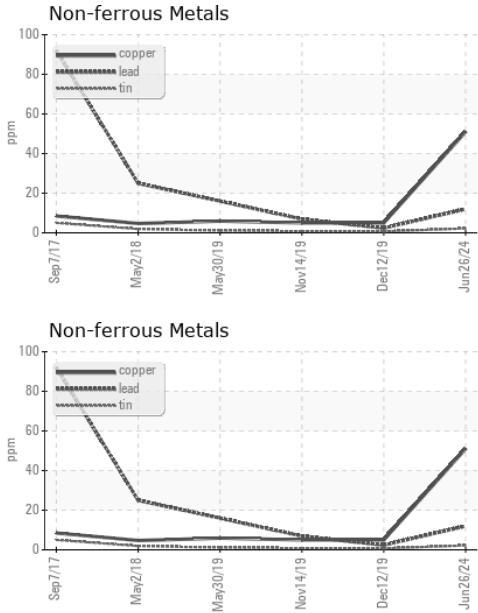
	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m) 78	<b>128</b>	207	134
Barium	ppm	ASTM D5185(m)	<b>0</b>	0	<1
Molybdenum	ppm	ASTM D5185(m) 0	<b>0</b>	0	0
Manganese	ppm	ASTM D5185(m)	<b>&lt;1</b>	<1	<1
Magnesium	ppm	ASTM D5185(m) 0	<b>7</b>	<1	<1
Calcium	ppm	ASTM D5185(m) 113	<b>146</b>	137	78
Phosphorus	ppm	ASTM D5185(m) 222	<b>351</b>	476	350
Zinc	ppm	ASTM D5185(m)	<b>7</b>	4	125
Sulfur	ppm	ASTM D5185(m) 1326	<b>2014</b>	2238	1174
Lithium	ppm	ASTM D5185(m)	<b>&lt;1</b>	<1	<1

## CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m) >25	<b>10</b>	4	5
Sodium	ppm	ASTM D5185(m)	<b>6</b>	5	4
Potassium	ppm	ASTM D5185(m) >20	<b>&lt;1</b>	<1	2



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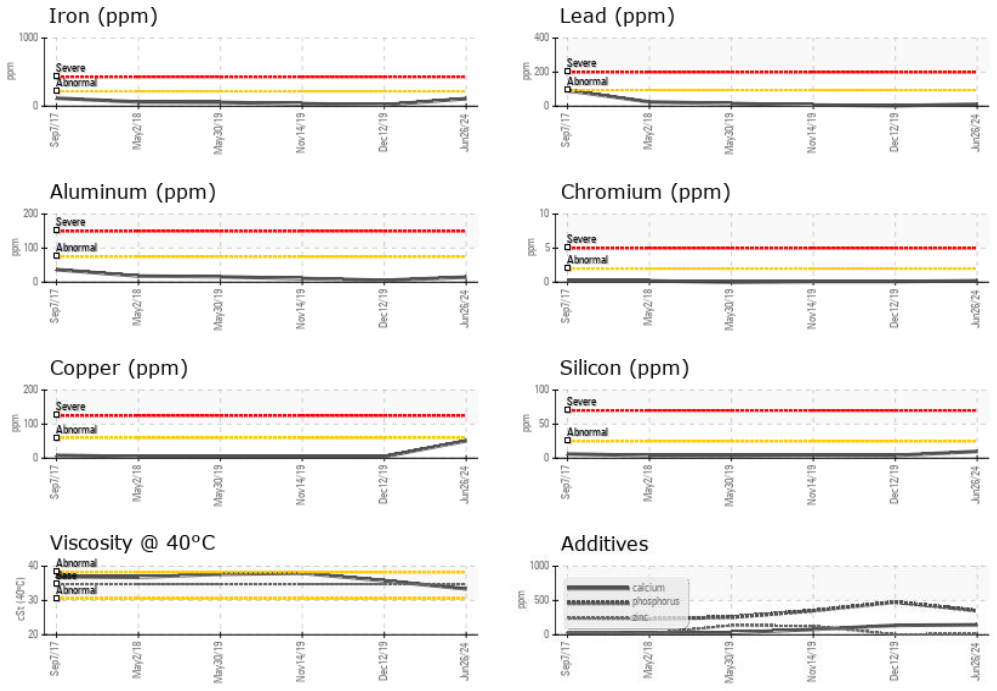


VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	Visual*	NONE	NONE	NONE
Yellow Metal	scalar	Visual*	NONE	NONE	NONE
Precipitate	scalar	Visual*	NONE	NONE	NONE
Silt	scalar	Visual*	NONE	NONE	NONE
Debris	scalar	Visual*	NONE	NONE	VLITE
Sand/Dirt	scalar	Visual*	NONE	NONE	NONE
Appearance	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	<b>33.4</b>	35.8	38.0

SAMPLE IMAGES	method	limit/base	current	history1	history2
Color					
Bottom					

## GRAPHS



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : GFL0125471  
**Lab Number** : **02645291**  
**Unique Number** : 5802830  
**Test Package** : MOB 1

**GFL Environmental - 209 - Hamilton**  
 560 Seaman Street  
 Stoney Creek, ON  
 CA L8E 3X7  
 Contact: Fred Carleton  
 fred.carleton@gflenv.com  
 T: (289)925-6693  
 F: (905)664-9008

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.