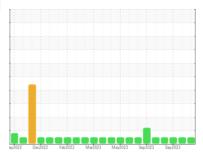


## **OIL ANALYSIS REPORT**

### Sample Rating Trend





NORMAL

Machine Id 10651

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.

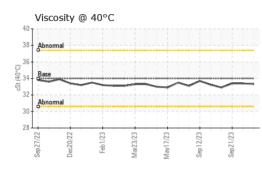
## Fluid Condition

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

SAMPLE INFORM						
	NATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0097930	GFL0097915	GFL0094308
Sample Date		Client Info		15 Nov 2023	23 Oct 2023	21 Sep 2023
Machine Age	hrs	Client Info		20515	20377	20225
Oil Age	hrs	Client Info		381	243	91
Oil Changed		Client Info		Not Changd	Not Changd	Not Changd
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINATI	ON	method	limit/base	current	history1	history2
Water		WC Method	>0.1	NEG	NEG	NEG
WEAR METALS	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>160	18	44	46
Chromium	ppm	ASTM D5185m	>5	0	0	0
Nickel	ppm	ASTM D5185m	>5	0	0	<1
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m	>5	0	0	0
Aluminum	ppm	ASTM D5185m	>50	<1	5	9
Lead	ppm	ASTM D5185m	>50	0	1	4
Copper	ppm	ASTM D5185m	>225	<1	4	5
Tin	ppm	ASTM D5185m	>10	0	<1	1
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		94	69	78
Barium	ppm	ASTM D5185m		0	0	1
Molybdenum	ppm	ASTM D5185m		0	0	0
Manganese	ppm	ASTM D5185m		0	<1	<1
Magnesium	ppm	ASTM D5185m		0	2	3
	ppm	ASTM D5185m		124	122	120
Calcium						
		ASTM D5185m		221	225	218
Calcium Phosphorus Zinc	ppm	ASTM D5185m ASTM D5185m		221 5	225 16	218 16
Phosphorus						
Phosphorus Zinc	ppm ppm ppm	ASTM D5185m	limit/base	5	16	16
Phosphorus Zinc Sulfur	ppm ppm ppm	ASTM D5185m ASTM D5185m		5 1540	16 1646	16 1699
Phosphorus Zinc Sulfur CONTAMINAN	ppm ppm ppm TS ppm	ASTM D5185m ASTM D5185m method	>20	5 1540 current	16 1646 history1	16 1699 history2
Phosphorus Zinc Sulfur CONTAMINAN <sup>T</sup> Silicon	ppm ppm ppm TS	ASTM D5185m ASTM D5185m <b>method</b> ASTM D5185m	>20	5 1540 current 4	16 1646 history1 5	16 1699 history2 6
Phosphorus Zinc Sulfur CONTAMINAN <sup>T</sup> Silicon Sodium	ppm ppm ppm TS ppm ppm	ASTM D5185m ASTM D5185m Method ASTM D5185m ASTM D5185m	>20	5 1540 current 4 2	16 1646 history1 5 2	16 1699 history2 6 <1
Phosphorus Zinc Sulfur CONTAMINAN <sup>T</sup> Silicon Sodium Potassium	ppm ppm ppm TS ppm ppm	ASTM D5185m ASTM D5185m Method ASTM D5185m ASTM D5185m ASTM D5185m	>20 >20	5 1540 current 4 2 0	16 1646 history1 5 2 0	16 1699 history2 6 <1 <1
Phosphorus Zinc Sulfur CONTAMINAN <sup>T</sup> Silicon Sodium Potassium VISUAL White Metal	ppm ppm ppm TS ppm ppm ppm	ASTM D5185m ASTM D5185m Method ASTM D5185m ASTM D5185m ASTM D5185m	>20 >20 limit/base	5 1540 current 4 2 0 current	16 1646 history1 5 2 0 history1	16 1699 history2 6 <1 <1 <1 history2
Phosphorus Zinc Sulfur CONTAMINAN <sup>T</sup> Silicon Sodium Potassium VISUAL White Metal	ppm ppm ppm TS ppm ppm ppm scalar	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m <b>method</b> *Visual	>20 >20 limit/base NONE	5 1540 current 4 2 0 current NONE	16 1646 history1 5 2 0 history1 NONE	16 1699 history2 6 <1 <1 +istory2 NONE
Phosphorus Zinc Sulfur CONTAMINAN <sup>T</sup> Silicon Sodium Potassium VISUAL White Metal Yellow Metal	ppm ppm ppm TS ppm ppm ppm ppm scalar scalar	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m <b>method</b> *Visual	>20 >20 limit/base NONE NONE	5 1540 current 4 2 0 current NONE NONE	16 1646 history1 5 2 0 history1 NONE NONE	16 1699 history2 6 <1 <1 <1 history2 NONE NONE
Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium VISUAL White Metal Yellow Metal Precipitate Silt	ppm ppm pm TS ppm ppm ppm ppm scalar scalar scalar	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m *Visual *Visual *Visual	>20 >20 limit/base NONE NONE NONE	5 1540 current 4 2 0 current NONE NONE NONE	16 1646 history1 5 2 0 history1 NONE NONE NONE	16 1699 history2 6 <1 <1 <1 history2 NONE NONE NONE
Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium VISUAL White Metal Yellow Metal Precipitate	ppm ppm pm TS ppm ppm ppm ppm scalar scalar scalar scalar scalar	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m *Visual *Visual *Visual *Visual	>20 >20 limit/base NONE NONE NONE NONE	5 1540 current 4 2 0 current NONE NONE NONE NONE NONE	16 1646 history1 5 2 0 history1 NONE NONE NONE NONE NONE	16 1699 history2 6 <1 <1 <1 history2 NONE NONE NONE NONE NONE
Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium VISUAL White Metal Yellow Metal Precipitate Silt Debris	ppm ppm TS ppm ppm ppm ppm scalar scalar scalar scalar scalar scalar	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m *Visual *Visual *Visual *Visual *Visual	>20 >20 limit/base NONE NONE NONE NONE NONE	5 1540 current 4 2 0 current NONE NONE NONE NONE LIGHT	16 1646 history1 5 2 0 history1 NONE NONE NONE NONE NONE NONE	16 1699 history2 6 <1 <1 <1 history2 NONE NONE NONE NONE NONE NONE
Phosphorus Zinc Sulfur CONTAMINAN CONTAMINAN Silicon Sodium Potassium VISUAL White Metal Yellow Metal Precipitate Silt Debris Sand/Dirt	ppm ppm ppm TS ppm ppm ppm scalar scalar scalar scalar scalar scalar	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m *Visual *Visual *Visual *Visual *Visual *Visual *Visual	>20 >20 Iimit/base NONE NONE NONE NONE NONE	5 1540 current 4 2 0 current NONE NONE NONE NONE LIGHT NONE	16 1646 history1 5 2 0 history1 NONE NONE NONE NONE NONE NONE NONE	16 1699 history2 6 <1 <1 +istory2 NONE NONE NONE NONE NONE NONE NONE NON
Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium VISUAL White Metal Yellow Metal Precipitate Silt Debris Sand/Dirt Appearance	ppm ppm ppm TS ppm ppm ppm scalar scalar scalar scalar scalar scalar scalar	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m *Visual *Visual *Visual *Visual *Visual *Visual *Visual *Visual	>20 >20 Iimit/base NONE NONE NONE NONE NONE NONE NONE	5 1540 current 4 2 0 current NONE NONE NONE LIGHT NONE LIGHT NONE NONE	16 1646 5 2 0 history1 NONE NONE NONE NONE NONE NONE NONE NON	16 1699 history2 6 <1 <1 +istory2 NONE NONE NONE NONE NONE NONE NONE NON
Phosphorus Zinc Sulfur CONTAMINAN CONTAMINAN Silicon Sodium Potassium VISUAL White Metal Yellow Metal Precipitate Silt Debris Sand/Dirt Appearance Odor	ppm ppm ppm TS ppm ppm ppm ppm scalar scalar scalar scalar scalar scalar scalar	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m *Visual *Visual *Visual *Visual *Visual *Visual *Visual *Visual *Visual	>20 >20 Imit/base NONE NONE NONE NONE NONE NONE NONE NON	5 1540 current 4 2 0 current NONE NONE NONE LIGHT NONE LIGHT NORE NORML	16 1646 5 2 0 <u>history1</u> NONE NONE NONE NONE NONE NONE NONE NON	16 1699 history2 6 <1 <1 NONE NONE NONE NONE NONE NONE NONE NON

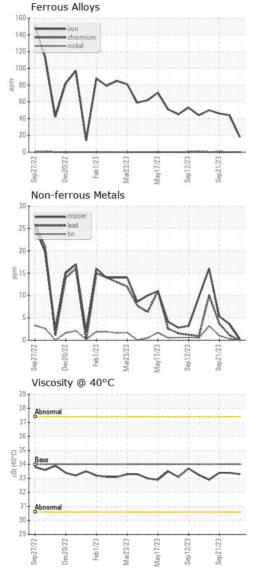


# **OIL ANALYSIS REPORT**



FLUID PROP	ERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	34	33.3	33.4	33.4
SAMPLE IMA	GES	method	limit/base	current	history1	history2
Color				no image	no image	no image
Bottom				no image	no image	no image





GFL Environmental - 010 - Stockbridge 1280 Rum Creek Parkway Stockbridge, GA US 30281 Contact: JOSHUA TINKER joshuatinker@gflenv.com T: F:



Laboratory Sample No. Lab Number Unique Number : 10752737 Certificate L2367

Test Package : FLEET 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)

: GFL0097930

: 06013593

: WearCheck USA - 501 Madison Ave., Cary, NC 27513

: 20 Nov 2023

: 23 Nov 2023

Diagnostician : Don Baldridge

Received

Diagnosed

Submitted By: JOSHUA TINKER