

OIL ANALYSIS REPORT

Sample Rating Trend



Machine Id **10719** 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.

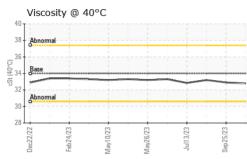
Fluid Condition

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

SAMPLE INFORM	NATION	method				history2
Sample Number		Client Info		GFL0097874	GFL0094282	GFL0091387
Sample Date		Client Info		15 Nov 2023	25 Sep 2023	28 Aug 2023
Machine Age	hrs	Client Info		10696	10563	10462
Oil Age	hrs	Client Info		695	10563	10462
Oil Changed		Client Info		Changed	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	6	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>160	61	54	50
Chromium	ppm	ASTM D5185m	>5	0	<1	0
Nickel	ppm	ASTM D5185m	>5	0	0	0
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m	>5	0	0	0
Aluminum	ppm	ASTM D5185m	>50	19	19	21
Lead	ppm	ASTM D5185m	>50	<1	2	2
Copper	ppm	ASTM D5185m	>225	11	13	10
Tin	ppm	ASTM D5185m	>10	<1	3	2
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		102	92	95
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		0	<1	0
Manganese	ppm	ASTM D5185m		0	2	1
Magnesium	ppm	ASTM D5185m		3	4	1
Calcium	ppm	ASTM D5185m		128	131	125
Phosphorus	ppm	ASTM D5185m		266	269	271
		ASTM D5185m		9	5	0
	ppm ppm	ASTM D5185m ASTM D5185m		9 1682	5 1868	0 2314
Zinc	ppm ppm		limit/base			
Zinc Sulfur	ppm ppm	ASTM D5185m		1682	1868	2314
Zinc Sulfur CONTAMINAN	ppm ppm TS ppm	ASTM D5185m method		1682 current	1868 history1	2314 history2
Zinc Sulfur CONTAMINAN ^T Silicon	ppm ppm TS	ASTM D5185m method ASTM D5185m	>20	1682 current 8	1868 history1 9	2314 history2 8
Zinc Sulfur CONTAMINAN ^T Silicon Sodium	ppm ppm TS ppm ppm	ASTM D5185m method ASTM D5185m ASTM D5185m	>20	1682 current 8 5	1868 history1 9 8	2314 history2 8 4
Zinc Sulfur CONTAMINAN Silicon Sodium Potassium	ppm ppm TS ppm ppm	ASTM D5185m method ASTM D5185m ASTM D5185m ASTM D5185m	>20 >20	1682 current 8 5 0	1868 history1 9 8 3	2314 history2 8 4 1
Zinc Sulfur CONTAMINAN Silicon Sodium Potassium VISUAL White Metal	ppm ppm TS ppm ppm ppm	ASTM D5185m method ASTM D5185m ASTM D5185m ASTM D5185m method	>20 >20 limit/base	1682 current 8 5 0 current	1868 history1 9 8 3 history1	2314 history2 8 4 1 history2
Zinc Sulfur CONTAMINAN Silicon Sodium Potassium VISUAL White Metal Yellow Metal	ppm ppm TS ppm ppm ppm scalar	ASTM D5185m method ASTM D5185m ASTM D5185m ASTM D5185m method *Visual	>20 >20 limit/base NONE	1682 current 8 5 0 current NONE	1868 history1 9 8 3 history1 NONE	2314 history2 8 4 1 history2 NONE
Zinc Sulfur CONTAMINAN Silicon Sodium Potassium VISUAL White Metal Yellow Metal Precipitate	ppm ppm TS ppm ppm ppm ppm scalar scalar	ASTM D5185m method ASTM D5185m ASTM D5185m ASTM D5185m *Visual *Visual	>20 >20 limit/base NONE NONE	1682 current 8 5 0 current NONE NONE	1868 history1 9 8 3 history1 NONE NONE	2314 history2 8 4 1 history2 NONE NONE
Zinc Sulfur CONTAMINAN Silicon Sodium Potassium VISUAL White Metal Yellow Metal Precipitate Silt	ppm ppm TS ppm ppm ppm ppm scalar scalar scalar	ASTM D5185m method ASTM D5185m ASTM D5185m ASTM D5185m *Visual *Visual *Visual	>20 >20 limit/base NONE NONE NONE	1682 current 8 5 0 current NONE NONE NONE	1868 history1 9 8 3 history1 NONE NONE NONE	2314 history2 8 4 1 history2 NONE NONE NONE
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	ASTM D5185m method ASTM D5185m ASTM D5185m *Visual *Visual *Visual *Visual *Visual *Visual	>20 >20 limit/base NONE NONE NONE NONE NONE	1682 current 8 5 0 current NONE NONE NONE NONE NONE NONE	1868 history1 9 8 3 history1 NONE NONE NONE NONE NONE NONE	2314 history2 8 4 1 history2 NONE NONE NONE NONE NONE
Zinc Sulfur CONTAMINAN Silicon Sodium Potassium VISUAL White Metal Yellow Metal Precipitate Silt Debris Sand/Dirt	ppm ppm TS ppm ppm ppm ppm scalar scalar scalar scalar	ASTM D5185m method ASTM D5185m ASTM D5185m *Visual *Visual *Visual *Visual *Visual	>20 >20 limit/base NONE NONE NONE NONE	1682 current 8 5 0 current NONE NONE NONE NONE	1868 history1 9 8 3 history1 NONE NONE NONE NONE	2314 history2 8 4 1 history2 NONE NONE NONE NONE
Zinc Sulfur CONTAMINAN ^T Silicon Sodium Potassium VISUAL	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 *Visual *Visual	>20 >20 limit/base NONE NONE NONE NONE NONE NONE NONE NON	1682 current 8 5 0 current NONE NONE NONE NONE NONE NONE NONE NON	1868 history1 9 8 3 history1 NONE NONE NONE NONE NONE NONE NONE NON	2314 history2 8 4 1 NONE NONE NONE NONE NONE NONE NONE NO
Zinc Sulfur CONTAMINAN Silicon Sodium Potassium VISUAL White Metal Yellow Metal Precipitate Silt Debris Sand/Dirt Appearance	ppm ppm TS ppm ppm ppm ppm scalar scalar scalar scalar scalar scalar scalar scalar	ASTM D5185m method ASTM D5185m ASTM D5185m *Visual *Visual *Visual *Visual *Visual *Visual *Visual *Visual *Visual *Visual *Visual	>20 >20 limit/base NONE NONE NONE NONE NONE NONE NONE NONE NONE	1682 current 8 5 0 current NONE NONE NONE NONE NONE NONE NONE NON	1868 history1 9 8 3 history1 NONE NONE NONE NONE NONE NONE NONE NON	2314 history2 8 4 1 NONE NONE NONE NONE NONE NONE NONE NO
Zinc Sulfur CONTAMINAN Silicon Sodium Potassium VISUAL White Metal Yellow Metal Precipitate Silt Debris Sand/Dirt Appearance Odor	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 *Visual *Visual	>20 >20 limit/base NONE NONE NONE NONE NONE NONE NONE NON	1682 current 8 5 0 current NONE NONE NONE NONE NONE NONE NONE NON	1868 history1 9 8 3 history1 NONE NONE NONE NONE NONE NONE NONE NON	2314 history2 8 4 1 NONE NONE NONE NONE NONE NONE NONE NO



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	FLUID PRO	PERTIES	method	limit/base	current	history1	history2
	Visc @ 40°C	cSt	ASTM D445		32.8	32.9	33.2
	SAMPLE IM	AGES	method	limit/base	current	history1	history2
13	Color				no image	no image	no image
Jul13/23 Sep25/23	Bottom				no image	no image	no image
		May10/23	Juli3/23	Sep25/23			
	Non-ferrous Me	Mar/1023	Pull3/23	Sep25/23			
	Abnormal 37 36 35 34 33 32 34 Abnormal 35 34 33 32 34 Abnormal 35 34 35 34 Abnormal 35 34 35 34 Abnormal 35 34 Abnormal 35 34 Abnormal 35 34 Abnormal 35 34 Abnormal 35 34 Abnormal 35 34 Abnormal 35 34 Abnormal 35 34 Abnormal 35 34 Abnormal 32 34 Abnormal 32 Abnormal 33 Abnormal Ab	May10/23 +	Juli3/23	Sep25/23			
	: WearCheck USA : GFL0097874 : 06013592 : 10752736 : FLEET contact Customer So re outside of the ISO	Received Diagnose Diagnosti ervice at 1-80	i : 20 ed : 23 ician : Do	0 Nov 2023 3 Nov 2023 on Baldridge 59.	3 GFL En	S Contact: JO	0 - Stockbridge Creek Parkway tockbridge, GA US 30281 SHUA TINKER er@gflenv.com T:



Test Certificate L2367 To discuss this same * - 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)

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