

OIL ANALYSIS REPORT

Sample Rating Trend



Machine Id 225054-632108

Component Transmission (Auto)

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.

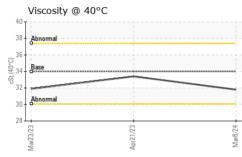
Fluid Condition

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

o	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0114487	GFL0074160	GFL0074228
Sample Date		Client Info		08 Mar 2024	21 Apr 2023	23 Mar 2023
Machine Age	hrs	Client Info		20664	18275	18049
Oil Age	hrs	Client Info		0	18275	18049
Oil Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINAT	ION	method	limit/base	current	history1	history2
Water		WC Method	>0.1	NEG	NEG	NEG
WEAR METAL	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>160	13	16	37
Chromium	ppm	ASTM D5185m	>5	0	0	0
Nickel	ppm	ASTM D5185m	>5	0	0	0
Titanium	ppm	ASTM D5185m		0	0	<1
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>50	2	3	5
Lead	ppm	ASTM D5185m		0	0	<1
Copper	ppm	ASTM D5185m	>225	15	11	28
Tin	ppm	ASTM D5185m	>10	0	0	<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		74	81	72
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		0	<1	1
Manganese	ppm	ASTM D5185m		0	<1	1
-						1
0	ppm	ASTM D5185m		<1	0	1
0	ppm ppm	ASTM D5185m ASTM D5185m		<1 169	0 125	133
Magnesium Calcium						
Magnesium Calcium	ppm	ASTM D5185m		169	125	133
Magnesium Calcium Phosphorus	ppm ppm	ASTM D5185m ASTM D5185m		169 227	125 229	133 206
Magnesium Calcium Phosphorus Zinc	ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m	limit/base	169 227 20	125 229 11	133 206 0
Magnesium Calcium Phosphorus Zinc Sulfur	ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m		169 227 20 2022	125 229 11 2161	133 206 0 1574
Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN	ppm ppm ppm ppm TS ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m method		169 227 20 2022 current	125 229 11 2161 history1	133 206 0 1574 history2
Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon	ppm ppm ppm ppm TS	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m method ASTM D5185m	>20	169 227 20 2022 current 2	125 229 11 2161 history1 2	133 206 0 1574 history2 4
Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium	ppm ppm ppm ppm TS ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m method ASTM D5185m ASTM D5185m	>20	169 227 20 2022 current 2 5	125 229 11 2161 history1 2 3	133 206 0 1574 history2 4 5
Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium	ppm ppm ppm ppm TS ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m method ASTM D5185m ASTM D5185m	>20 >20	169 227 20 2022 current 2 5 0	125 229 11 2161 history1 2 3 <1 +istory1 NONE	133 206 0 1574 history2 4 5 0
Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium VISUAL White Metal	ppm ppm ppm ppm TS ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	>20 >20 limit/base	169 227 20 2022 current 2 5 0 current	125 229 11 2161 history1 2 3 <1 history1	133 206 0 1574 history2 4 5 0 0 history2
Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium VISUAL White Metal Yellow Metal Precipitate	ppm ppm ppm ppm TS ppm ppm ppm scalar	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m *Visual *Visual *Visual	>20 >20 limit/base NONE NONE NONE	169 227 20 2022 current 2 5 0 current NONE NONE NONE NONE	125 229 11 2161 history1 2 3 <1 +istory1 NONE	133 206 0 1574 history2 4 5 0 history2 NONE NONE NONE NONE
Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium VISUAL White Metal Yellow Metal Precipitate Silt	ppm ppm ppm ppm TS ppm ppm ppm scalar scalar	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m *Visual	>20 >20 limit/base NONE NONE	169 227 20 2022 current 2 5 0 current NONE NONE NONE NONE NONE	125 229 11 2161 history1 2 3 <1 history1 NONE NONE	133 206 0 1574 history2 4 5 0 history2 NONE NONE
Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium VISUAL White Metal Yellow Metal Precipitate Silt	ppm ppm ppm ppm TS ppm ppm ppm scalar scalar scalar	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m *Visual *Visual *Visual	>20 >20 limit/base NONE NONE NONE	169 227 20 2022 current 2 5 0 current NONE NONE NONE NONE	125 229 11 2161 2 3 <1 <u>history1</u> NONE NONE NONE NONE	133 206 0 1574 history2 4 5 0 history2 NONE NONE NONE NONE
Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium VISUAL White Metal Yellow Metal Precipitate Silt Debris	ppm ppm ppm ppm TS ppm ppm ppm ppm scalar scalar scalar scalar	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m *Visual *Visual *Visual *Visual	>20 >20 limit/base NONE NONE NONE NONE	169 227 20 2022 current 2 5 0 current NONE NONE NONE NONE NONE	125 229 11 2161 2 3 <1 <u>history1</u> NONE NONE NONE NONE NONE	133 206 0 1574 4 5 0 history2 NONE NONE NONE NONE NONE NONE
Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium VISUAL White Metal Yellow Metal Precipitate Silt Debris Sand/Dirt	ppm ppm ppm ppm TS ppm ppm ppm ppm scalar scalar scalar scalar scalar	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m *Visual *Visual *Visual *Visual *Visual *Visual	>20 >20 limit/base NONE NONE NONE NONE NONE	169 227 20 2022 current 2 5 0 current NONE NONE NONE NONE NONE NONE	125 229 11 2161 2 3 <1 NONE NONE NONE NONE NONE NONE NONE	133 206 0 1574 history2 4 5 0 history2 NONE NONE NONE NONE NONE NONE
Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium VISUAL White Metal	ppm ppm ppm ppm TS ppm ppm ppm ppm scalar scalar scalar scalar scalar scalar	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m *Visual *Visual *Visual *Visual *Visual *Visual *Visual	>20 >20 limit/base NONE NONE NONE NONE NONE	169 227 20 2022 current 2 5 0 current NONE NONE NONE NONE NONE NONE NONE	125 229 11 2161 22 3 <1 <u>history1</u> NONE NONE NONE NONE NONE NONE NONE	133 206 0 1574 history2 4 5 0 history2 NONE NONE NONE NONE NONE NONE NONE
Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium VISUAL White Metal Yellow Metal Yellow Metal Precipitate Silt Debris Sand/Dirt Appearance	ppm ppm ppm ppm TS ppm ppm ppm scalar scalar scalar scalar scalar scalar scalar	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m *Visual *Visual *Visual *Visual *Visual *Visual *Visual *Visual	>20 >20 limit/base NONE NONE NONE NONE NONE NONE NONE	169 227 20 2022 current 2 5 0 current NONE NONE NONE NONE NONE NONE NONE NON	125 229 11 2161 22 3 <1 NONE NONE NONE NONE NONE NONE NONE NON	133 206 0 1574 history2 4 5 0 history2 NONE NONE NONE NONE NONE NONE NONE NON
Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium VISUAL White Metal Yellow Metal Yellow Metal Precipitate Silt Debris Sand/Dirt Appearance Odor	ppm ppm ppm ppm TS ppm ppm ppm scalar scalar scalar scalar scalar scalar scalar scalar	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m *Visual *Visual *Visual *Visual *Visual *Visual *Visual *Visual *Visual *Visual	>20 >20 Iinit/base NONE NONE NONE NONE NONE NONE NONE NON	169 227 20 2022 current 2 5 0 current NONE NONE NONE NONE NONE NONE NONE NON	125 229 11 2161 22 3 <1 NONE NONE NONE NONE NONE NONE NONE NON	133 206 0 1574 history2 4 5 0 history2 NONE NONE NONE NONE NONE NONE NONE NON



OIL ANALYSIS REPORT



	FLUID PROPI		method	limit/base	current	history1	history
	Visc @ 40°C		STM D445	34	31.8	33.4	31.9
-	SAMPLE IMA	GES	method	limit/base	current	history1	history
Aptic I/Loo	Color				no image	no image	no image
Mar8/24	Bottom				no image	no image	no image
	GRAPHS			L			
	Ferrous Alloys						
	35 30 25 E 20						
	15 10 5 0 E27 C2 Per W	Apr21/23		Mar8/24			
	≊ Non-ferrous Meta			M			
	25 copper lead 20						
	<u>ة</u> 15			_			
	10 - 5 -						
	0	Apr21/23		Mar8/24			
	Viscosity @ 40°C	:					
	30 Abnormal 37- 36-						
	(35) 0 (1) 34 33 33 33						
	32						
	30 - Abnormal 29						
	Mar23/23	Apr21/23		Mar8/24			
Laboratory Sample No. Lab Number Unique Number Test Package	: WearCheck USA - 5 : GFL0114487 : 06124438 : 10938589	01 Madison A Receive Tested Diagnos	d : 20 : 21	NC 27513 Mar 2024 Mar 2024 Mar 2024 - W	7	ironmental - 865 - E 7213 East Mount Contac	
ficate 12367 Test Package discuss this sample report, Denotes test methods that	: FLEET contact Customer Ser	vice at 1-800	-237-1369				

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

F: