

OIL ANALYSIS REPORT

Sample Rating Trend



Machine Id

733020

Component Transmission (Auto)

Fluid PETRO CANADA DuraDrive HD Synthetic 668 (--- QTS)

DIAGNOSIS

Recommendation

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

Wear

All component wear rates are normal.

Contamination

Moderate concentration of visible dirt/debris present in the fluid.

Fluid Condition

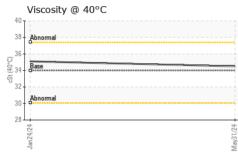
The condition of the fluid is acceptable for the time in service.

SAMPLE INFORM	JATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0120235	GFL0103276	
Sample Date		Client Info		31 May 2024	24 Jan 2024	
Machine Age	hrs	Client Info		1899	1207	
Oil Age	hrs	Client Info		0	1207	
Oil Changed		Client Info		Not Changd	Not Changd	
Sample Status				ABNORMAL	NORMAL	
	ON	method	limit/base	current	history1	history2
Water		WC Method		NEG	NEG	
WEAR METALS	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>160	43	48	
Chromium	ppm	ASTM D5185m	>5	0	<1	
Nickel	ppm	ASTM D5185m	>5	0	<1	
Titanium		ASTM D5185m	>5	0	0	
Silver	ppm	ASTM D5185m	>5	0	0	
	ppm			-		
Aluminum	ppm	ASTM D5185m	>50	18	16	
Lead	ppm	ASTM D5185m	>50	12	11	
Copper	ppm	ASTM D5185m	>225	8	7	
Tin	ppm	ASTM D5185m	>10	3	3	
Vanadium	ppm	ASTM D5185m		<1	0	
Cadmium	ppm	ASTM D5185m		0	0	
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		87	105	
Barium	ppm	ASTM D5185m		0	<1	
Molybdenum	ppm	ASTM D5185m		<1	<1	
Manganese	ppm	ASTM D5185m		1	<1	
	ppm	ASTM D5185m		0	<1	
Magnesium		ASTM D5185m ASTM D5185m		0 178	<1 61	
Magnesium Calcium	ppm					
Magnesium Calcium Phosphorus	ppm ppm	ASTM D5185m		178	61	
Magnesium Calcium Phosphorus Zinc	ppm ppm ppm	ASTM D5185m ASTM D5185m		178 255	61 250	
Magnesium Calcium Phosphorus Zinc	ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m	limit/base	178 255 27	61 250 0	
Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN	ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m method	limit/base	178 255 27 1498	61 250 0 1194	
Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon	ppm ppm ppm ppm ppm TS	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m method		178 255 27 1498 current	61 250 0 1194 history1	 history2
Magnesium Calcium Phosphorus Zinc Sulfur	ppm ppm ppm ppm ppm TS ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m Method ASTM D5185m	>20	178 255 27 1498 current 4	61 250 0 1194 history1 4	 history2
Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium	ppm ppm ppm ppm ppm TS ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	>20	178 255 27 1498 <u>current</u> 4 5	61 250 0 1194 history1 4 2	 history2
Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium VISUAL	ppm ppm ppm ppm ppm TS ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	>20 >20	178 255 27 1498 current 4 5 2	61 250 0 1194 history1 4 2 4	 history2
Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium VISUAL White Metal	ppm ppm ppm ppm ppm TS ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	>20 >20 limit/base	178 255 27 1498 current 4 5 2 2 current	61 250 0 1194 history1 4 2 4 4 history1	 history2 history2
Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium VISUAL White Metal Yellow Metal	ppm ppm ppm ppm ppm TS ppm ppm ppm scalar	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m XSTM D5185m	>20 >20 limit/base NONE	178 255 27 1498 current 4 5 2 2 current NONE	61 250 0 1194 history1 4 2 4 4 history1 NONE	 history2 history2
Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium VISUAL White Metal Yellow Metal Precipitate	ppm ppm ppm ppm ppm TS ppm ppm ppm scalar	ASTM D5185m ASTM D5185m ASTM D5185m Method ASTM D5185m ASTM D5185m ASTM D5185m Method *Visual	>20 >20 limit/base NONE NONE	178 255 27 1498 current 4 5 2 2 current NONE NONE	61 250 0 1194 history1 4 2 4 4 history1 NONE NONE	 history2 history2
Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium VISUAL White Metal Yellow Metal Precipitate Silt	ppm ppm ppm ppm ppm TS ppm ppm ppm ppm scalar scalar scalar	ASTM D5185m ASTM D5185m ASTM D5185m Method ASTM D5185m ASTM D5185m ASTM D5185m *Visual *Visual *Visual	>20 >20 Iimit/base NONE NONE NONE	178 255 27 1498 current 4 5 2 2 current NONE NONE NONE NONE	61 250 0 1194 4 2 4 4 <u>history1</u> NONE NONE NONE NONE	 history2 history2 history2
Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium VISUAL White Metal Yellow Metal Precipitate Silt Debris	ppm ppm ppm ppm ppm ppm ppm ppm ppm scalar scalar scalar scalar	ASTM D5185m ASTM D5185m ASTM D5185m Method ASTM D5185m ASTM D5185m ASTM D5185m *Visual *Visual *Visual *Visual	>20 >20 limit/base NONE NONE NONE NONE	178 255 27 1498 current 4 5 2 2 current NONE NONE NONE NONE NONE	61 250 0 1194 <u>history1</u> 4 2 4 <u>history1</u> NONE NONE NONE NONE NONE NONE	 history2 history2 history2
Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium VISUAL White Metal Yellow Metal Precipitate Silt Debris Sand/Dirt	ppm ppm ppm ppm ppm ppm ppm ppm ppm scalar scalar scalar scalar scalar	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m *Visual *Visual *Visual *Visual *Visual *Visual *Visual	>20 >20 Imit/base NONE NONE NONE NONE NONE NONE	178 255 27 1498 current 4 5 2 current NONE NONE NONE NONE NONE NONE NONE NONE NONE	61 250 0 1194 <u>history1</u> 4 2 4 <u>history1</u> NONE NONE NONE NONE NONE NONE	 history2 history2 history2
Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium VISUAL White Metal Yellow Metal Precipitate Silt Debris Sand/Dirt Appearance	ppm ppm ppm ppm ppm ppm ppm ppm scalar scalar scalar scalar scalar scalar	ASTM D5185m 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 NONE	178 255 27 1498 current 4 5 2 current NONE NONE NONE NONE NONE NONE NONE NONE NONE NONE NONE	61 250 0 1194 4 2 4 2 4 4 NONE NONE NONE NONE NONE NONE NONE	 history2 history2
Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium VISUAL White Metal Yellow Metal Precipitate Silt Debris Sand/Dirt Appearance Odor	ppm 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 *Visual *Visual *Visual *Visual *Visual *Visual *Visual *Visual *Visual	>20 >20 Imit/base NONE NONE NONE NONE NONE NONE NONE NONE NONE	178 255 27 1498 current 4 5 2 current NONE NONE NONE NONE NONE NONE NONE NONE NONE NONE NONE NONE	61 250 0 1194 history1 4 2 4 4 NONE NONE NONE NONE NONE NONE NONE	 history2 history2 history2
Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Sodium Potassium VISUAL White Metal Yellow Metal Precipitate Silt Debris Sand/Dirt Appearance	ppm ppm ppm ppm ppm ppm ppm ppm scalar scalar scalar scalar scalar scalar	ASTM D5185m 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 NONE	178 255 27 1498 current 4 5 2 current NONE NONE NONE NONE NONE NONE NONE NONE NONE NONE NONE	61 250 0 1194 4 2 4 2 4 4 NONE NONE NONE NONE NONE NONE NONE	 history2 history2

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FLUID PRC	PERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	34	34.5	35.1	
SAMPLE IN	IAGES	method	limit/base	current	history1	history2
Color				no image	no image	no image
Bottom				no image	no image	no image
GRAPHS Ferrous Alloys						
⁵⁰						
45 - Iron 40 - nickel						
35-						
30 톱 25						
20 -						
15						
5						
4/24			1/24			
Jan 24/24			May31/24			
Non-ferrous M	letals		ALABERTA -			
10 - copper lead						
tin						
8						
E 6-						
4 •						
2						
04			24			
Jan 24/24			May31/24			
Viscosity @ 40	0°C					
39 38 Abnormal						
37						
36						
35 - Base						
33 32						
31-						
30 - Abnormal						
29 4/5			1/24			
Jan 24/24			May31/24			
: WearCheck USA : GFL0120235	- 501 Madiso Recei		, NC 27513 Jun 2024	GFL Env	vironmental - 836 - K 7801 Eas	ansas City Hau l t Truman Ro
: 06199688	Teste	d : 05	Jun 2024	5		ansas City, N
· :11061811 · :FLEET	Diagr	iosed : 06	Jun 2024 - Doi	n Baldridge	Contact	US 641 Loyce Stew
t. contact Customer S	Service at 1-8	00-237-1369	9.			art@gflenv.c

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)

Certificate L2367

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