

## **OIL ANALYSIS REPORT**

Sample Rating Trend



#### Area (EIB678) Machine Id 10808

Component Transmission (Auto)

Fluid PETRO CANADA DuraDrive HD Synthetic 668 (8 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.

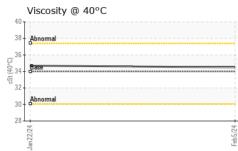
### Fluid Condition

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

SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0107168	GFL0109897	
Sample Date		Client Info		05 Feb 2024	22 Jan 2024	
Machine Age	hrs	Client Info		802	11594	
Oil Age	hrs	Client Info		802	450	
Oil Changed		Client Info		Not Changd	Not Changd	
Sample Status				NORMAL	NORMAL	
CONTAMINAT	ION	method	limit/base	current	history1	history2
Water		WC Method	>0.1	NEG	NEG	
WEAR METAL	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>300	83	85	
Chromium	ppm	ASTM D5185m	>2	<1	<1	
Nickel	ppm	ASTM D5185m	>4	0	0	
Titanium	ppm	ASTM D5185m	>3	0	<1	
Silver	ppm	ASTM D5185m	>5	0	0	
Aluminum	ppm	ASTM D5185m	>70	15	15	
Lead	ppm	ASTM D5185m	>85	4	6	
Copper	ppm	ASTM D5185m	>90	21	22	
Tin	ppm		>10	1	2	
Vanadium	ppm	ASTM D5185m	210	0	0	
Cadmium	ppm	ASTM D5185m		0	0	
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		93	100	
Barium		ASTM D5185m			0	
Barium	ppm	ASTM D5185m ASTM D5185m		5	0	
Barium Molybdenum	ppm ppm	ASTM D5185m		5 <1	2	
Barium Molybdenum Manganese	ppm ppm ppm	ASTM D5185m ASTM D5185m		5 <1 <1	2 1	
Barium Molybdenum Manganese Magnesium	ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m		5 <1 <1 2	2 1 2	
Barium Molybdenum Manganese Magnesium Calcium	ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m		5 <1 <1 2 55	2 1 2 56	
Barium Molybdenum Manganese Magnesium Calcium Phosphorus	ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m		5 <1 <1 2 55 224	2 1 2 56 206	
Barium Molybdenum Manganese Magnesium Calcium	ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m		5 <1 <1 2 55	2 1 2 56	
Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur	ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	limit/base	5 <1 <1 2 55 224 0 1290	2 1 2 56 206 4 1370	   
Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN	ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m <b>method</b>	limit/base >20	5 <1 <1 2 55 224 0 1290 current	2 1 2 56 206 4 1370 history1	  
Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon	ppm ppm ppm ppm ppm ppm ppm ppm TS	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m <b>method</b> ASTM D5185m	limit/base >20	5 <1 <1 2 55 224 0 1290 current 5	2 1 2 56 206 4 1370 history1 6	   
Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN	ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m <b>method</b>	>20	5 <1 <1 2 55 224 0 1290 current	2 1 2 56 206 4 1370 history1	    history2
Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium	ppm ppm ppm ppm ppm ppm ppm TS	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m <b>method</b> ASTM D5185m ASTM D5185m	>20	5 <1 <1 2 55 224 0 1290 <b>current</b> 5 0	2 1 2 56 206 4 1370 history1 6 0	    history2
Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium	ppm ppm ppm ppm ppm ppm ppm TS	ASTM D5185m ASTM D5185m	>20 >20	5 <1 <1 2 55 224 0 1290 current 5 0 2	2 1 2 56 206 4 1370 history1 6 0 2	    history2  
Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium VISUAL	ppm ppm ppm ppm ppm ppm ppm TS ppm ppm ppm	ASTM D5185m ASTM D5185m	>20 >20 limit/base	5 <1 <1 2 55 224 0 1290 current 5 0 2 2 current	2 1 2 56 206 4 1370 history1 6 0 2 history1	    history2    history2
Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium VISUAL White Metal Yellow Metal	ppm ppm ppm ppm ppm ppm ppm ppm TS ppm ppm ppm	ASTM D5185m ASTM D5185m <b>method</b>	>20 >20 limit/base NONE	5 <1 <1 2 55 224 0 1290 current 5 0 2 2 current NONE	2 1 2 56 206 4 1370 history1 6 0 2 2 history1 NONE	    history2   history2
Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium VISUAL White Metal	ppm ppm ppm ppm ppm ppm ppm ppm <b>TS</b> ppm ppm ppm ppm scalar scalar scalar	ASTM D5185m ASTM D5185m Y Usual *Visual	>20 >20 limit/base NONE NONE NONE	5 <1 <1 2 55 224 0 1290 current 5 0 2 2 current NONE NONE NONE NONE	2 1 2 56 206 4 1370 history1 6 0 2 2 history1 NONE NONE NONE NONE	     history2  history2  history2
Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium VISUAL White Metal Yellow Metal Precipitate Silt	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m XI D5185m Visual *Visual *Visual	>20 >20 limit/base NONE NONE NONE NONE	5 <1 <1 2 55 224 0 1290 current 5 0 2 2 current NONE NONE NONE NONE NONE	2 1 2 56 206 4 1370 history1 6 0 2 2 history1 NONE NONE NONE NONE NONE	     history2  history2  history2
Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium VISUAL White Metal Precipitate Silt Debris	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m Yisual *Visual *Visual *Visual	>20 >20 limit/base NONE NONE NONE NONE NONE	5 <1 <1 2 55 224 0 1290 current 5 0 2 2 current NONE NONE NONE NONE NONE NONE	2 1 2 56 206 4 1370 history1 6 0 2 2 history1 NONE NONE NONE NONE NONE NONE NONE	    history2   history2  history2
Barium Molybdenum Manganese 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 ppm	ASTM D5185m ASTM D5185m ASTM D5185m 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	5 <1 <1 2 55 224 0 1290 current 5 0 2 current NONE NONE NONE NONE NONE NONE NONE NON	2 1 2 56 206 4 1370 history1 6 0 2 history1 8 NONE NONE NONE NONE NONE NONE NONE NO	    history2   history2  history2
Barium Molybdenum Manganese 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 ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m 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 NONE NONE	5 <1 <1 2 55 224 0 1290 current 5 0 2 current 5 0 2 current NONE NONE NONE NONE NONE NONE NONE NON	2 1 2 56 206 4 1370 history1 6 0 2 history1 8 NONE NONE NONE NONE NONE NONE NONE NO	    history2   history2       
Barium Molybdenum Manganese 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 ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m 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	>20 >20 limit/base NONE NONE NONE NONE NONE NONE NONE NONE NONE	5 <1 <1 2 55 224 0 1290 current 5 0 2 current NONE	2 1 2 56 206 4 1370 history1 6 0 2 history1 8 NONE NONE NONE NONE NONE NONE NONE NO	history2 history2
Barium Molybdenum Manganese 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 ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m 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 NONE NONE	5 <1 <1 2 55 224 0 1290 current 5 0 2 current 5 0 2 current NONE NONE NONE NONE NONE NONE NONE NON	2 1 2 56 206 4 1370 history1 6 0 2 history1 8 NONE NONE NONE NONE NONE NONE NONE NO	    history2   history2  history2   



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	FLUID PROPE	RHES	method				history
	Visc @ 40°C	cSt	ASTM D445	34	34.5	34.7	
	SAMPLE IMA	GES	method	limit/base	current	history1	history
	Color				no image	no image	no image
	Bottom				no image	no image	no image
	GRAPHS Ferrous Alloys						
	90						
:	70 - management nickel						
	60						
mqq	40 -						
	30						
	10-						
	Jan 22/24	*****		Feb5/24			
		. 1		E.			
	Non-ferrous Meta	1IS					
	18 - second lead						
	16						
mqq	12						
	8						
	4						
				/24			
	Jan 22/24			Feb5/24			
:	Viscosity @ 40°C						
;	38 Abnormal						
	37-36-						
cSt (40°C)	35 - Base						
cSt (4	33-						
	32-						
:	30 - Abnormal						
	Jan 22/24			Feb5/24			
	Jan			Fet			
ple No. Number	: WearCheck USA - : GFL0107168 : 06081709 : 10863800	501 Madia Recieved Diagnose Diagnost	l : 06 F ed : 07 F	ry, NC 2751 eb 2024 eb 2024 b 2024 b Davis	3 GFL En	vironmental - 01 1280 Rum S	



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Submitted By: JOSHUA TINKER