

OIL ANALYSIS REPORT

Sample Rating Trend



Machine Id 928092-260349

Component Transmission

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.

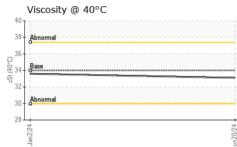
Fluid Condition

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

SAMPLE INFOR	MATION	method	limit/base	current	history1	history2	
Sample Number		Client Info		GFL0122906	GFL0102472		
Sample Date		Client Info		20 Jun 2024	02 Jan 2024		
Machine Age	hrs	Client Info		24627	23697		
Oil Age	hrs	Client Info		23697	0		
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	>200	19	29		
Chromium	ppm	ASTM D5185m	>10	0	<1		
Nickel	ppm	ASTM D5185m		0	<1		
Titanium	ppm	ASTM D5185m		0	<1		
Silver	ppm	ASTM D5185m		0	0		
Aluminum	ppm	ASTM D5185m	>50	6	5		
Lead	ppm	ASTM D5185m	>50	1	1		
Copper	ppm	ASTM D5185m	>200	4	5		
Tin	ppm		>10	1	1		
Vanadium	ppm	ASTM D5185m		0	0		
Cadmium	ppm	ASTM D5185m		0	<1		
ADDITIVES		method	limit/base	current	history1	history2	
Boron	ppm	ASTM D5185m		77	71		
Barium	mag	ASTM D5185m		0	0		
	ppm ppm	ASTM D5185m ASTM D5185m		0	0		
Molybdenum	ppm	ASTM D5185m		0	1		
Molybdenum Manganese	ppm ppm	ASTM D5185m ASTM D5185m		0 <1	1 <1		
Molybdenum Manganese Magnesium	ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m		0 <1 0	1 <1 3		
Molybdenum Manganese Magnesium Calcium	ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m		0 <1 0 127	1 <1 3 131		
Molybdenum Manganese Magnesium Calcium Phosphorus	ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m		0 <1 0 127 242	1 <1 3 131 214		
Molybdenum Manganese Magnesium Calcium	ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m		0 <1 0 127	1 <1 3 131		
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 ASTM D5185m	limit/base	0 <1 0 127 242 19 2041	1 <1 3 131 214 0 1824	 	
Molybdenum Manganese Magnesium Calcium Phosphorus Zinc	ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m method	limit/base	0 <1 0 127 242 19 2041 current	1 <1 3 131 214 0 1824 history1	 	
Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon	ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m method ASTM D5185m	limit/base >50	0 <1 0 127 242 19 2041 current 6	1 <1 3 131 214 0 1824 history1 13	 	
Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN	ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m method	>50	0 <1 0 127 242 19 2041 current	1 <1 3 131 214 0 1824 history1	 history2	
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 method ASTM D5185m ASTM D5185m	>50	0 <1 0 127 242 19 2041 current 6 <1 <1	1 <1 3 131 214 0 1824 history1 13 1	 history2 	
Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium	ppm ppm ppm ppm ppm ppm ppm TS	ASTM D5185m ASTM D5185m	>50 >20	0 <1 0 127 242 19 2041 current 6 <1 <1	1 <1 3 131 214 0 1824 history1 13 1 2	 history2 	
Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium VISUAL	ppm ppm ppm ppm ppm ppm TS ppm ppm ppm	ASTM D5185m ASTM D5185m	>50 >20 limit/base	0 <1 0 127 242 19 2041 current 6 <1 <1 <1	1 <1 3 131 214 0 1824 history1 13 1 2 history1	 history2 history2	
Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium VISUAL White Metal Yellow Metal	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m method	>50 >20 limit/base NONE	0 <1 0 127 242 19 2041 current 6 <1 <1 <1 current NONE	1 <1 3 131 214 0 1824 history1 13 1 2 history1 NONE	 history2 history2 history2	
Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium VISUAL White Metal	ppm ppm ppm ppm ppm ppm ppm TS ppm ppm ppm ppm scalar scalar	ASTM D5185m ASTM D5185m Y Usual	>50 >20 limit/base NONE NONE	0 <1 0 127 242 19 2041 current 6 <1 <1 <1 current NONE NONE	1 <1 3 131 214 0 1824 history1 13 1 2 history1 NONE NONE	 history2 history2 history2	
Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium VISUAL White Metal Yellow Metal Precipitate	ppm ppm ppm 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 ASTM D5185m ASTM D5185m ASTM D5185m *Visual *Visual *Visual	>50 >20 limit/base NONE NONE NONE NONE	0 <1 0 127 242 19 2041 current 6 <1 <1 <1 <1 current NONE NONE NONE	1 <1 3 131 214 0 1824 history1 13 1 1 2 history1 NONE NONE NONE NONE NONE MODER	 history2 history2 history2	
Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium VISUAL White Metal Yellow Metal Precipitate Silt Debris	ppm ppm ppm 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 ASTM D5185m ASTM D5185m ASTM D5185m Yisual *Visual *Visual *Visual	>50 >20 limit/base NONE NONE NONE NONE NONE	0 <1 0 127 242 19 2041 current 6 <1 <1 <1 current NONE NONE NONE NONE NONE NONE	1 <1 3 131 214 0 1824 history1 13 1 2 history1 2 NONE NONE NONE NONE NONE NONE NONE	 history2 history2 history2	
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 TS ppm ppm ppm ppm scalar scalar scalar scalar	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m *Visual *Visual *Visual	>50 >20 limit/base NONE NONE NONE NONE NONE	0 <1 0 127 242 19 2041 current 6 <1 <1 <1 current NONE NONE NONE NONE NONE NONE NONE NON	1 <1 3 131 214 0 1824 history1 13 1 2 history1 NONE NONE NONE NONE NONE NONE NONE NONE	 history2 history2 history2	
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 *Visual	>50 >20 limit/base NONE NONE NONE NONE NONE NONE NONE	0 <1 0 127 242 19 2041 current 6 <1 <1 <1 current NONE NONE NONE NONE NONE NONE NONE NON	1 <1 3 131 214 0 1824 history1 13 1 2 history1 NONE NONE NONE NONE NONE NONE NONE NONE NONE NONE NONE NONE	history2 history2	
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	>50 >20 Iinit/base NONE NONE NONE NONE NONE NONE NONE NON	0 <1 0 127 242 19 2041 current 6 <1 <1 <1 current NONE NONE NONE NONE NONE NONE NONE NON	1 <1 3 131 214 0 1824 history1 13 1 2 history1 NONE	 history2 history2 history2	
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 *Visual	>50 >20 limit/base NONE NONE NONE NONE NONE NONE NONE	0 <1 0 127 242 19 2041 current 6 <1 <1 <1 current NONE NONE NONE NONE NONE NONE NONE NON	1 <1 3 131 214 0 1824 history1 13 1 2 history1 NONE NONE NONE NONE NONE NONE NONE NONE NONE NONE NONE NONE	history2 history2	



OIL ANALYSIS REPORT



FLUID PR	OPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	34	33.1	33.6	
SAMPLE	IMAGES	method	limit/base	current	history1	history2
Color				no image	no image	no image
Bottom				no image	no image	no image
GRAPHS						
Ferrous Allor	Metals		Jun20124			
314 304 28 28 + 7272 IE			Jun20/24			
boratory : WearCheck US mple No. : GFL0122906 b Number : 06224131 que Number : 11102328 st Package : FLEET	Recei [.] Teste Diagn	ved : 28 d : 01	, NC 27513 Jun 2024 Jul 2024 Jul 2024 - W		Ha Contact: S	7 - Harrison TS state Route 291 arrisonville, MO US 64701 ARA PATRICK

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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