

OIL ANALYSIS REPORT

Sample Rating Trend

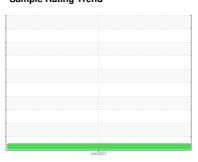
NORMAL



Area [415568] 420089 - SW4012

Component Transmission (Auto)

PETRO CANADA DuraDrive HD Synthetic 668 (--- GAL)





DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

All component wear rates are normal.

Contamination

There is no indication of any contamination in the fluid.

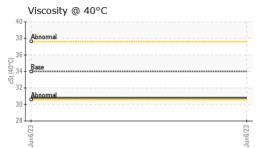
Fluid Condition

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

SAMPLE INFORMATION method limit/base current history 1 history 2	Sinu Synthetic 668 (-	GAL)			Jun 2023		
Sample Date	SAMPLE INFORM	MATION	method	limit/base	current	history 1	history 2
Machine Age	Sample Number		Client Info		GFL0083425		
Oil Age hrs Client Info 0	Sample Date		Client Info		06 Jun 2023		
Oil Changed Sample Status	Machine Age	hrs	Client Info		98977		
NORMAL N	Oil Age	hrs	Client Info		0		
Iron	Oil Changed		Client Info		Changed		
Iron	Sample Status				NORMAL		
Chromium	WEAR METALS	S	method	limit/base	current	history 1	history 2
Nickel	Iron	ppm	ASTM D5185m	>160	58		
Titanium	Chromium	ppm	ASTM D5185m	>5	<1		
Silver	Nickel	ppm	ASTM D5185m	>5	<1		
Aluminum	Titanium	ppm	ASTM D5185m		0		
Lead	Silver	ppm	ASTM D5185m	>5	0		
Copper	Aluminum	ppm	ASTM D5185m	>50	15		
Tin	Lead	ppm	ASTM D5185m	>50	9		
Tin	Copper	ppm	ASTM D5185m	>225	22		
Cadmium		ppm	ASTM D5185m	>10	1		
ADDITIVES	Vanadium	ppm	ASTM D5185m		0		
Boron	Cadmium				0		
Barium	ADDITIVES		method	limit/base	current	history 1	history 2
Molybdenum ppm ASTM D5185m <1 Manganese ppm ASTM D5185m 1 Magnesium ppm ASTM D5185m 2 Calcium ppm ASTM D5185m 248 Phosphorus ppm ASTM D5185m 248 Zinc ppm ASTM D5185m 248 Sulfur ppm ASTM D5185m 21 Sulfur ppm ASTM D5185m 20 4 Sulfur ppm ASTM D5185m >20 4 Sodium ppm ASTM D5185m >20 4 Sodium ppm ASTM D5185m >20 3 VISUAL method limit/base current history 1 history 2 White Metal scalar <t< td=""><td>Boron</td><td>ppm</td><td>ASTM D5185m</td><td></td><td>65</td><td></td><td></td></t<>	Boron	ppm	ASTM D5185m		65		
Manganese ppm ASTM D5185m 1 Magnesium ppm ASTM D5185m 2 Calcium ppm ASTM D5185m 123 Phosphorus ppm ASTM D5185m 248 Zinc ppm ASTM D5185m <1	Barium	ppm	ASTM D5185m		0		
Magnesium ppm ASTM D5185m 2 Calcium ppm ASTM D5185m 123 Phosphorus ppm ASTM D5185m 248 Zinc ppm ASTM D5185m <1	Molybdenum	ppm	ASTM D5185m		<1		
Calcium ppm ASTM D5185m 123 Phosphorus ppm ASTM D5185m 248 Zinc ppm ASTM D5185m <1	Manganese	ppm	ASTM D5185m		1		
Phosphorus ppm ASTM D5185m 248 Zinc ppm ASTM D5185m <1 Sulfur ppm ASTM D5185m 1519 CONTAMINANTS method limit/base current history 1 history 2 Silicon ppm ASTM D5185m >20 4 Sodium ppm ASTM D5185m >20 3 Sodium ppm ASTM D5185m >20 3 Potassium ppm ASTM D5185m >20 3 Potassium ppm ASTM D5185m >20 3 VISUAL method limit/base current history 1 history 2 White Metal scalar *Visual NONE NONE Yellow Metal scalar *Visual NONE NONE <td< td=""><td>Magnesium</td><td>ppm</td><td>ASTM D5185m</td><td></td><td>2</td><td></td><td></td></td<>	Magnesium	ppm	ASTM D5185m		2		
Zinc ppm ASTM D5185m <1 Sulfur ppm ASTM D5185m 1519 CONTAMINANTS method limit/base current history 1 history 2 Silicon ppm ASTM D5185m >20 4 Sodium ppm ASTM D5185m >20 3 Potassium ppm ASTM D5185m >20 3 VISUAL method limit/base current history 1 history 2 White Metal scalar *Visual NONE Yellow Metal scalar *Visual NONE Precipitate scalar *Visual NONE NONE Silt scalar *Visual NONE NONE Silt scalar *Visual NONE NONE Sand/Dirt scalar </td <td>Calcium</td> <td>ppm</td> <td>ASTM D5185m</td> <td></td> <td>123</td> <td></td> <td></td>	Calcium	ppm	ASTM D5185m		123		
Sulfur ppm ASTM D5185m 1519 CONTAMINANTS method limit/base current history 1 history 2 Silicon ppm ASTM D5185m >20 4 Sodium ppm ASTM D5185m >20 3 Potassium ppm ASTM D5185m >20 3 VISUAL method limit/base current history 1 history 2 White Metal scalar *Visual NONE Yellow Metal scalar *Visual NONE Precipitate scalar *Visual NONE Silt scalar *Visual NONE Silt scalar *Visual NONE Debris scalar *Visual NONE NONE Appearance <td>Phosphorus</td> <td>ppm</td> <td>ASTM D5185m</td> <td></td> <td>248</td> <td></td> <td></td>	Phosphorus	ppm	ASTM D5185m		248		
CONTAMINANTS method limit/base current history 1 history 2	Zinc	ppm	ASTM D5185m		<1		
Silicon ppm ASTM D5185m >20 4 Sodium ppm ASTM D5185m 6 Potassium ppm ASTM D5185m >20 3 VISUAL method limit/base current history 1 history 2 White Metal scalar *Visual NONE NONE Yellow Metal scalar *Visual NONE NONE Precipitate scalar *Visual NONE NONE Silt scalar *Visual NONE NONE Debris scalar *Visual NONE NONE Sand/Dirt scalar *Visual NORML NORML Appearance scalar *Visual NORML NORML Godor scalar *Visual NO	Sulfur	ppm	ASTM D5185m		1519		
Sodium ppm ASTM D5185m 6 Potassium ppm ASTM D5185m >20 3 VISUAL method limit/base current history 1 history 2 White Metal scalar *Visual NONE NONE Yellow Metal scalar *Visual NONE NONE Precipitate scalar *Visual NONE NONE Silt scalar *Visual NONE NONE Debris scalar *Visual NONE NONE Sand/Dirt scalar *Visual NORML NORML Appearance scalar *Visual NORML NORML Odor scalar *Visual NORML NORML Free Water scalar *Visual	CONTAMINAN	TS	method	limit/base	current	history 1	history 2
Potassium ppm ASTM D5185m >20 3 VISUAL method limit/base current history 1 history 2 White Metal scalar *Visual NONE Yellow Metal scalar *Visual NONE NONE Precipitate scalar *Visual NONE NONE Silt scalar *Visual NONE NONE Debris scalar *Visual NONE NONE Sand/Dirt scalar *Visual NONE Appearance scalar *Visual NORML NORML Odor scalar *Visual NORML NORML Emulsified Water scalar *Visual NEG FLUID PROPERTIES method limit/base current history 1 history 2	Silicon	ppm	ASTM D5185m	>20	4		
White Metal scalar *Visual NONE NONE Yellow Metal scalar *Visual NONE NONE Precipitate scalar *Visual NONE NONE Silt scalar *Visual NONE NONE Silt scalar *Visual NONE NONE Debris scalar *Visual NONE NONE Sand/Dirt scalar *Visual NONE NONE Appearance scalar *Visual NONE NONE Appearance scalar *Visual NORML NORML Free Water scalar *Visual NORML NORML Free Water scalar *Visual NORML NORML FLUID PROPERTIES method limit/base current history 1 history 2	Sodium	ppm	ASTM D5185m		6		
White Metal scalar *Visual NONE NONE Yellow Metal scalar *Visual NONE NONE Precipitate scalar *Visual NONE NONE Silt scalar *Visual NONE NONE Debris scalar *Visual NONE NONE Sand/Dirt scalar *Visual NONE NONE Appearance scalar *Visual NORML NORML Odor scalar *Visual NORML NORML Emulsified Water scalar *Visual NEG FLUID PROPERTIES method limit/base current history 1 history 2		ppm	ASTM D5185m	>20	3		
Yellow Metal scalar *Visual NONE NONE Precipitate scalar *Visual NONE NONE Silt scalar *Visual NONE NONE Debris scalar *Visual NONE NONE Sand/Dirt scalar *Visual NONE NONE Appearance scalar *Visual NORML NORML Odor scalar *Visual NORML NORML Emulsified Water scalar *Visual NEG Free Water scalar *Visual NEG FLUID PROPERTIES method limit/base current history 1 history 2	VISUAL		method	limit/base	current	history 1	history 2
Precipitate scalar *Visual NONE NONE Silt scalar *Visual NONE NONE Debris scalar *Visual NONE NONE Sand/Dirt scalar *Visual NONE NONE Appearance scalar *Visual NORML NORML Odor scalar *Visual NORML NORML Emulsified Water scalar *Visual >0.1 NEG Free Water scalar *Visual NEG FLUID PROPERTIES method limit/base current history 1 history 2	White Metal	scalar	*Visual	NONE	NONE		
Silt scalar *Visual NONE NONE Debris scalar *Visual NONE NONE Sand/Dirt scalar *Visual NONE NONE Appearance scalar *Visual NORML NORML Odor scalar *Visual NORML NORML Emulsified Water scalar *Visual >0.1 NEG Free Water scalar *Visual NEG FLUID PROPERTIES method limit/base current history 1 history 2	Yellow Metal	scalar	*Visual	NONE	NONE		
Debris scalar *Visual NONE NONE Sand/Dirt scalar *Visual NONE NONE Appearance scalar *Visual NORML NORML Odor scalar *Visual NORML NORML Emulsified Water scalar *Visual >0.1 NEG Free Water scalar *Visual NEG FLUID PROPERTIES method limit/base current history 1 history 2	Precipitate	scalar	*Visual	NONE	NONE		
Sand/Dirt scalar *Visual NONE NONE Appearance scalar *Visual NORML NORML Odor scalar *Visual NORML NORML Emulsified Water scalar *Visual >0.1 NEG Free Water scalar *Visual NORML NEG FLUID PROPERTIES method limit/base current history 1 history 2	Silt	scalar	*Visual	NONE	NONE		
Appearance scalar *Visual NORML NORML Odor scalar *Visual NORML NORML Emulsified Water scalar *Visual >0.1 NEG Free Water scalar *Visual NEG FLUID PROPERTIES method limit/base current history 1 history 2	Debris	scalar	*Visual	NONE	NONE		
Odor scalar *Visual NORML NORML Emulsified Water scalar *Visual >0.1 NEG Free Water scalar *Visual NEG FLUID PROPERTIES method limit/base current history 1 history 2	Sand/Dirt	scalar	*Visual	NONE	NONE		
Emulsified Water scalar *Visual >0.1 NEG Free Water scalar *Visual NEG FLUID PROPERTIES method limit/base current history 1 history 2	Appearance	scalar	*Visual	NORML	NORML		
Free Water scalar *Visual NEG FLUID PROPERTIES method limit/base current history 1 history 2	Odor	scalar	*Visual	NORML	NORML		
FLUID PROPERTIES method limit/base current history 1 history 2	Emulsified Water	scalar	*Visual	>0.1	NEG		
	Free Water	scalar	*Visual		NEG		
Visc @ 40°C	FLUID PROPE	RTIES	method	limit/base	current	history 1	history 2
	Visc @ 40°C	cSt	ASTM D445	34	30.8		

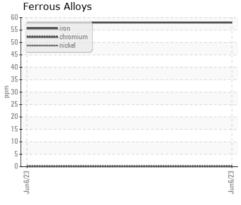


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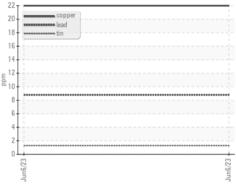


SAMPLE IMAGES	method	limit/base	current	history 1	history 2
Color			no image	no image	no image
Bottom			no image	no image	no image

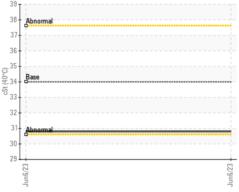
GRAPHS



Non-ferrous Metals











Laboratory Sample No. Lab Number

: GFL0083425 : 05885976 Unique Number : 10536459 Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 28 Jun 2023 Diagnosed : 02 Jul 2023

Diagnostician : Doug Bogart

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)

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