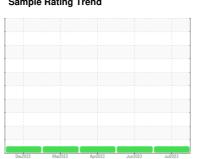


OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Machine Id **728006**

Component

Transmission (Auto)

PETRO CANADA DuraDrive HD Synthetic

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.

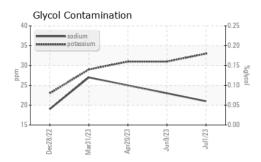
Fluid Condition

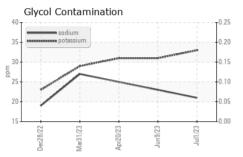
The condition of the fluid is acceptable for the time in service.

Sample Number Client Info GFL0086090 GFL0083262 GFL008092 Gample Date Client Info Dit Jul 2023 09 Jun 2023 20 Apr 2023 2	68 (GAL)		Dec2022	Mar2023	Apr2023 Jun2023	Jul2023	
Sample Date	SAMPLE INFOR	MATION	method	limit/base	current	history 1	history 2
Machine Age	Sample Number		Client Info		GFL0086090	GFL0083262	GFL008092
Dil Age	Sample Date		Client Info		01 Jul 2023	09 Jun 2023	20 Apr 2023
Not Changed Normal Nor	Machine Age	hrs	Client Info		13225	12754	12572
NORMAL NORMAL NORMAL NORMAL WEAR METALS method limit/base current history 1 history 2 history 3 history 3 history 4 history 4 history 5 history 5 history 6 history 6 history 6 history 7 history 7 history 7 history 7 history 7 history 7 history 8 history 9 history 8 history 9 history 8 history 9 history 8 history 9 histor	Oil Age	hrs	Client Info		752	820	432
WEAR METALS method limit/base current history 1 history 2 ron ppm ASTM D5185m >160 65 63 59 Chromium ppm ASTM D5185m >5 0 0 0 Nickel ppm ASTM D5185m >5 <1	Oil Changed		Client Info		Not Changd	Changed	Not Changd
Description	Sample Status				NORMAL	NORMAL	NORMAL
Chromium	WEAR METAL	_S	method	limit/base	current	history 1	history 2
Nickel	Iron	ppm	ASTM D5185m	>160	65	63	59
Description	Chromium	ppm	ASTM D5185m	>5	0	0	0
Silver	Nickel	ppm	ASTM D5185m	>5	<1	<1	0
Aluminum	Titanium	ppm	ASTM D5185m		0	0	0
Lead	Silver	ppm	ASTM D5185m	>5	<1	0	0
Description	Aluminum	ppm	ASTM D5185m	>50	7	7	8
Copper	Lead		ASTM D5185m	>50	<1	<1	0
Tin	Copper	ppm	ASTM D5185m	>225	17	15	12
Vanadium ppm ASTM D5185m 0 0 0 Cadmium ppm ASTM D5185m 0 0 0 ADDITIVES method limit/base current history 1 history 2 Boron ppm ASTM D5185m 45 44 35 Barium ppm ASTM D5185m 0 0 0 Molybdenum ppm ASTM D5185m <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1<	Tin		ASTM D5185m	>10	1	<1	<1
Cadmium ppm ASTM D5185m 0 0 0 ADDITIVES method limit/base current history 1 history 2 Boron ppm ASTM D5185m 45 44 35 Barium ppm ASTM D5185m 0 0 0 Molybdenum ppm ASTM D5185m <1 <1 <1 Manganese ppm ASTM D5185m <2 2 5 Magnesium ppm ASTM D5185m 123 120 120 Phosphorus ppm ASTM D5185m 228 235 233 Zinc ppm ASTM D5185m 7 6 11 Sulfur ppm ASTM D5185m 7 6 11 Sulfur ppm ASTM D5185m 20 8 9 8 Sodium ppm ASTM D5185m 20 8 9 8 Sodium ppm ASTM D5185m 20 8 9	Vanadium		ASTM D5185m		0	0	0
Boron ppm ASTM D5185m 45	Cadmium						0
Barium	ADDITIVES		method	limit/base	current	history 1	history 2
Molybdenum ppm ASTM D5185m <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <td>Boron</td> <td>ppm</td> <td>ASTM D5185m</td> <td></td> <td>45</td> <td>44</td> <td>35</td>	Boron	ppm	ASTM D5185m		45	44	35
Manganese ppm ASTM D5185m <1 <1 1 Magnesium ppm ASTM D5185m 2 2 5 Calcium ppm ASTM D5185m 123 120 120 Phosphorus ppm ASTM D5185m 228 235 233 Zinc ppm ASTM D5185m 7 6 11 Sulfur ppm ASTM D5185m 7 6 11 Sulfur ppm ASTM D5185m 2063 1002 CONTAMINANTS method limit/base current history 1 history 2 CONTAMINANTS method limit/base current history 1 history 3 Silicon ppm ASTM D5185m >20 8 9 8 Sodium ppm ASTM D5185m >20 8 9 8 Sodium ppm ASTM D5185m >20 33 31 31 VISUAL method limit/base current<	Barium	ppm	ASTM D5185m		0	0	0
Magnesium ppm ASTM D5185m 2 2 5 Calcium ppm ASTM D5185m 123 120 120 Phosphorus ppm ASTM D5185m 228 235 233 Zinc ppm ASTM D5185m 7 6 11 Sulfur ppm ASTM D5185m 1087 2063 1002 CONTAMINANTS method limit/base current history 1 history 2 Gilicon ppm ASTM D5185m >20 8 9 8 Sodium ppm ASTM D5185m >20 33 31 31 VISUAL method limit/base current history 1 history 2 White Metal scalar *Visual NONE NONE NONE NONE Yellow Metal scalar *Visual NONE NONE NONE NONE NONE Yellow Metal scalar *Visual NONE NONE NONE NONE <td>Molybdenum</td> <td>ppm</td> <td>ASTM D5185m</td> <td></td> <td><1</td> <td><1</td> <td><1</td>	Molybdenum	ppm	ASTM D5185m		<1	<1	<1
Calcium ppm ASTM D5185m 123 120 120 Phosphorus ppm ASTM D5185m 228 235 233 Zinc ppm ASTM D5185m 7 6 11 Sulfur ppm ASTM D5185m 1087 2063 1002 CONTAMINANTS method limit/base current history 1 history 2 Silicon ppm ASTM D5185m >20 8 9 8 Sodium ppm ASTM D5185m >20 33 31 31 VISUAL method limit/base current history 1 history 2 White Metal scalar *Visual NONE NONE NONE NONE Wellow Metal scalar *Visual NONE NONE NONE NONE NONE Yellow Metal scalar *Visual NONE	Manganese	ppm	ASTM D5185m		<1	<1	1
Phosphorus ppm ASTM D5185m 228 235 233 Zinc ppm ASTM D5185m 7 6 11 Sulfur ppm ASTM D5185m 1087 2063 1002 CONTAMINANTS method limit/base current history 1 history 2 Silicon ppm ASTM D5185m >20 8 9 8 Sodium ppm ASTM D5185m >20 33 31 31 VISUAL method limit/base current history 1 history 2 White Metal scalar *Visual NONE NONE NONE NONE Wellow Metal scalar *Visual NONE NONE NONE NONE Precipitate scalar *Visual NONE NONE NONE NONE Silt scalar *Visual NONE NONE NONE NONE Debris scalar *Visual NONE NONE	Magnesium	ppm	ASTM D5185m		2	2	5
Zinc ppm ASTM D5185m 7 6 11 Sulfur ppm ASTM D5185m 1087 2063 1002 CONTAMINANTS method limit/base current history 1 history 2 Silicon ppm ASTM D5185m >20 8 9 8 Sodium ppm ASTM D5185m 21 23 25 Potassium ppm ASTM D5185m >20 33 31 31 VISUAL method limit/base current history 1 history 2 White Metal scalar *Visual NONE NONE NONE NONE Yellow Metal scalar *Visual NONE	Calcium	ppm	ASTM D5185m		123	120	120
Sulfur ppm ASTM D5185m 1087 2063 1002 CONTAMINANTS method limit/base current history 1 history 2 Silicon ppm ASTM D5185m >20 8 9 8 Sodium ppm ASTM D5185m 21 23 25 Potassium ppm ASTM D5185m >20 33 31 31 VISUAL method limit/base current history 1 history 2 White Metal scalar *Visual NONE NONE NONE NONE Yellow Metal scalar *Visual NONE	Phosphorus	ppm	ASTM D5185m		228	235	233
CONTAMINANTS method limit/base current history 1 history 2 Silicon ppm ASTM D5185m >20 8 9 8 Sodium ppm ASTM D5185m 21 23 25 Potassium ppm ASTM D5185m >20 33 31 31 VISUAL method limit/base current history 1 history 2 White Metal scalar *Visual NONE NONE NONE NONE Yellow Metal scalar *Visual NONE NONE NONE NONE NONE Yellow Metal scalar *Visual NONE	Zinc	ppm	ASTM D5185m		7	6	11
Silicon	Sulfur	ppm	ASTM D5185m		1087	2063	1002
Sodium	CONTAMINAN	NTS	method	limit/base	current	history 1	history 2
Potassium ppm ASTM D5185m >20 33 31 31 31 VISUAL method limit/base current history 1 history 2 White Metal scalar *Visual NONE NONE NONE NONE NONE Yellow Metal scalar *Visual NONE NONE NONE NONE NONE Precipitate scalar *Visual NONE NONE NONE NONE NONE Silt scalar *Visual NONE NONE NONE NONE NONE Debris scalar *Visual NONE NONE NONE NONE NONE Sand/Dirt scalar *Visual NONE NONE NONE NONE NONE Appearance scalar *Visual NORML NORML NORML NORML Odor scalar *Visual NORML NORML NORML NORML Emulsified Water scalar *Visual >0.1 NEG NEG NEG Free Water scalar *Visual NEG NEG NEG				>20	-		
VISUAL method limit/base current history 1 history 2 White Metal scalar *Visual NONE NONE NONE NONE NONE Yellow Metal scalar *Visual NONE NONE NONE NONE NONE Precipitate scalar *Visual NONE NONE NONE NONE NONE Silt scalar *Visual NONE NONE NONE NONE NONE Debris scalar *Visual NONE NONE NONE NONE NONE Sand/Dirt scalar *Visual NONE NONE NONE NONE NONE Appearance scalar *Visual NORML NORML NORML NORML Odor scalar *Visual NORML NORML NORML NORML Emulsified Water scalar *Visual >0.1 NEG NEG NEG Free Water scalar *Visual NEG NEG NEG	Sodium	ppm	ASTM D5185m		21	23	25
White Metal scalar *Visual NONE NONE NONE NONE NONE Yellow Metal scalar *Visual NONE NONE NONE NONE Precipitate scalar *Visual NONE NONE NONE NONE Silt scalar *Visual NONE NONE NONE NONE NONE Debris scalar *Visual NONE NONE NONE NONE NONE Sand/Dirt scalar *Visual NONE NONE NONE NONE NONE Appearance scalar *Visual NORML NORML NORML NORML Odor scalar *Visual NORML NORML NORML NORML Emulsified Water scalar *Visual >0.1 NEG NEG NEG Free Water Scalar *Visual NEG NEG NEG	Potassium	ppm	ASTM D5185m	>20	33	31	31
Yellow Metalscalar*VisualNONENONENONENONEPrecipitatescalar*VisualNONENONENONENONESiltscalar*VisualNONENONENONENONEDebrisscalar*VisualNONENONENONENONESand/Dirtscalar*VisualNONENONENONENONEAppearancescalar*VisualNORMLNORMLNORMLNORMLNORMLOdorscalar*VisualNORMLNORMLNORMLNORMLNORMLEmulsified Waterscalar*Visual>0.1NEGNEGNEGFree Waterscalar*VisualNEGNEGNEG	VISUAL		method	limit/base	current	history 1	history 2
Precipitate scalar *Visual NONE NONE NONE NONE NONE Silt scalar *Visual NONE NONE NONE NONE Debris scalar *Visual NONE NONE NONE NONE Sand/Dirt scalar *Visual NONE NONE NONE NONE Appearance scalar *Visual NORML NORML NORML NORML Odor scalar *Visual NORML NORML NORML NORML Emulsified Water scalar *Visual >0.1 NEG NEG Free Water scalar *Visual NEG NEG NEG	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Silt scalar *Visual NONE NONE NONE NONE NONE Debris scalar *Visual NONE NONE NONE NONE Sand/Dirt scalar *Visual NONE NONE NONE NONE Appearance scalar *Visual NORML NORML NORML NORML Odor scalar *Visual NORML NORML NORML NORML Emulsified Water scalar *Visual >0.1 NEG NEG NEG Free Water scalar *Visual NEG NEG NEG	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Debris scalar *Visual NONE NONE NONE NONE NONE Sand/Dirt scalar *Visual NONE NONE NONE NONE Appearance scalar *Visual NORML NORML NORML NORML Odor scalar *Visual NORML NORML NORML NORML Emulsified Water scalar *Visual >0.1 NEG NEG NEG Free Water scalar *Visual NEG NEG NEG	Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt scalar *Visual NONE NONE NONE NONE NONE Appearance scalar *Visual NORML NORML NORML NORML Odor scalar *Visual NORML NORML NORML NORML Emulsified Water scalar *Visual >0.1 NEG NEG NEG Free Water scalar *Visual NEG NEG NEG	Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance scalar *Visual NORML Free Water scalar *Visual >0.1 NEG NEG NEG NEG NEG	Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Odor scalar *Visual NORML NORM	Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Emulsified Water scalar *Visual >0.1 NEG NEG NEG Free Water scalar *Visual NEG NEG NEG	Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water scalar *Visual >0.1 NEG NEG NEG Free Water scalar *Visual NEG NEG NEG	Odor	scalar	*Visual	NORML	NORML	NORML	NORML
	Emulsified Water	scalar	*Visual	>0.1	NEG	NEG	NEG
FLUID PROPERTIES method limit/base current history 1 history 2	Free Water	scalar	*Visual		NEG	NEG	NEG
	FLUID PROPE	ERTIES	method	limit/base	current	history 1	history 2



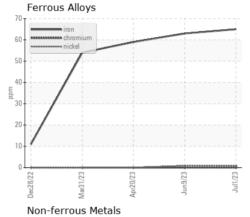
OIL ANALYSIS REPORT





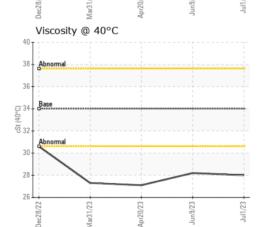


GRAPHS



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Laboratory

Sample No. Lab Number

: GFL0086090 : 05894101 Unique Number : 10549911

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : 10 Jul 2023 Received Diagnosed : 12 Jul 2023

Diagnostician : Sean Felton

Test Package : FLEET (Additional Tests: Glycol) 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)

GFL Environmental - 010 - Stockbridge

1280 Rum Creek Parkway Stockbridge, GA

US 30281

Contact: TECHNICIAN ACCOUNT

wcgfldemo@gmail.com

T: F:

Report Id: GFL010 [WUSCAR] 05894101 (Generated: 07/12/2023 10:42:57) Rev: 1