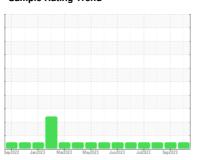


OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Machine Id 2869 Component

Transmission (Auto)

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 oil.

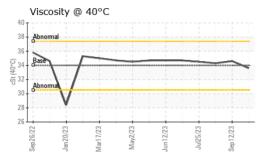
Fluid Condition

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

Sample Number Client Info GFL0094277 GFL0094347 GFL008874 Sample Date Client Info 22 Sep 2023 12 Sep 2023 16 Aug 2023 Machine Age hrs Client Info 2337 2227 2069 Oil Age hrs Client Info 110 1116 958 Oil Changed Client Info Not Changd Changed Not Changd Sample Status NORMAL NORMAL NORMAL NORMAL	68 (GAL)		Sep2022 J:	an2023 Mar2023 May	Ž023 JunŽ023 JulŽ023	Sep2023	
Client Info 22 Sep 2023 12 Sep 2023 16 Aug 2023 17 Sep 2023 16 Aug 2023 17 Sep 2023 17 Sep 2023 18 Sep 2023 22 Sep 2024 22 Sep 2025	SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Machine Age	Sample Number		Client Info		GFL0094277	GFL0094347	GFL008874
Dil Age	Sample Date		Client Info		22 Sep 2023	12 Sep 2023	16 Aug 2023
Dil Changed Client Info Not Changed NORMAL NORM	Machine Age	hrs	Client Info		2337	2227	2069
NORMAL NORMAL NORMAL NORMAL WEAR METALS method limit/base current history1 history2 history2	Oil Age	hrs	Client Info		110	1116	958
WEAR METALS method limit/base current history1 history2 Iron ppm ASTM D5185m >160 44 109 112 Chromium ppm ASTM D5185m >5 0 <1	Oil Changed		Client Info		Not Changd	Changed	Not Changd
Chromium	Sample Status				NORMAL	NORMAL	NORMAL
Chromium ppm ASTM D5185m >5 0 <1 0 Nickel ppm ASTM D5185m >5 0 <1 0 Silver ppm ASTM D5185m >5 0 0 0 Silver ppm ASTM D5185m >5 0 0 0 Aluminum ppm ASTM D5185m >50 17 42 41 Lead ppm ASTM D5185m >50 11 29 29 Copper ppm ASTM D5185m >50 11 29 29 Copper ppm ASTM D5185m >50 11 29 29 Copper ppm ASTM D5185m >10 2 5 5 Vanadium ppm ASTM D5185m 0 0 0 0 ADDITIVES method limit/base current history1 history2 Barium ppm ASTM D5185m 7 7 7	WEAR METAL	.S	method	limit/base	current	history1	history2
Nickel	ron	ppm	ASTM D5185m	>160	44	109	112
Description	Chromium	ppm	ASTM D5185m	>5	0	<1	0
Silver	Nickel	ppm	ASTM D5185m	>5	0	<1	0
Aluminum	Γitanium	ppm	ASTM D5185m		0	0	0
Lead	Silver	ppm	ASTM D5185m	>5	0	0	0
Description	Aluminum	ppm	ASTM D5185m	>50	17	42	41
Tim	_ead	ppm	ASTM D5185m	>50	11	29	29
Vanadium ppm ASTM D5185m 0 0 0 Cadmium ppm ASTM D5185m 0 0 0 ADDITIVES method limit/base current history1 history2 Boron ppm ASTM D5185m 75 71 77 Barium ppm ASTM D5185m 0 <1 2 Molybdenum ppm ASTM D5185m 2 2 2 2 Magnesium ppm ASTM D5185m 2 2 2 2 Magnesium ppm ASTM D5185m 4 2 <1 0 87 Calcium ppm ASTM D5185m 229 257 238 27 238 27 20 2 1 3	Copper	ppm	ASTM D5185m	>225	8	14	15
Cadmium ppm ASTM D5185m 0 0 0 ADDITIVES method limit/base current history1 history2 Boron ppm ASTM D5185m 75 71 77 Barium ppm ASTM D5185m 0 <1	Γin	ppm	ASTM D5185m	>10	2	5	5
ADDITIVES	Vanadium	ppm	ASTM D5185m		0	0	0
Boron ppm ASTM D5185m 75 71 77 77 77 77 77 77	Cadmium	ppm	ASTM D5185m		0	0	0
Barium	ADDITIVES		method	limit/base	current	history1	history2
Molybdenum ppm ASTM D5185m <1 0 <1 Manganese ppm ASTM D5185m 2 2 2 2 Magnesium ppm ASTM D5185m 4 2 <1 Calcium ppm ASTM D5185m 114 90 87 Phosphorus ppm ASTM D5185m 229 257 238 Zinc ppm ASTM D5185m 5 0 3 Sulfur ppm ASTM D5185m 5 0 3 Sulfur ppm ASTM D5185m 5 0 3 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >20 5 7 7 Sodium ppm ASTM D5185m >20 5 7 7 Sodium ppm ASTM D5185m >20 5 7 7 Sodium ppm ASTM D5185m >20	Boron	ppm	ASTM D5185m		_	71	77
Manganese ppm ASTM D5185m 2 3 3 3 3 3 3 3 3 3 3 4 3 4 2 2 2 3 4 2 2 2 3 4 2 2 3		ppm	ASTM D5185m		0		2
Magnesium ppm ASTM D5185m 4 2 <1 Calcium ppm ASTM D5185m 114 90 87 Phosphorus ppm ASTM D5185m 229 257 238 Zinc ppm ASTM D5185m 5 0 3 Sulfur ppm ASTM D5185m 5 0 3 Sulfur ppm ASTM D5185m 5 0 3 CONTAMINANTS method limit/base current history1 history2 Gilicon ppm ASTM D5185m >20 5 7 7 Godium ppm ASTM D5185m >20 4 3 4 VISUAL method limit/base current history1 history2 White Metal scalar *Visual NONE NONE NONE NONE Vellow Metal scalar *Visual NONE NONE NONE NONE NONE NONE NONE	Molybdenum	ppm					<1
Calcium ppm ASTM D5185m 114 90 87 Phosphorus ppm ASTM D5185m 229 257 238 Zinc ppm ASTM D5185m 5 0 3 Sulfur ppm ASTM D5185m 1468 1343 1314 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >20 5 7 7 Sodium ppm ASTM D5185m >20 4 3 4 Potassium ppm ASTM D5185m >20 4 3 4 VISUAL method limit/base current history1 history2 White Metal scalar *Visual NONE NONE NONE NONE Wellow Metal scalar *Visual NONE	-	ppm	ASTM D5185m		2		2
Phosphorus ppm ASTM D5185m 229 257 238 Zinc ppm ASTM D5185m 5 0 3 Sulfur ppm ASTM D5185m 1468 1343 1314 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >20 5 7 7 Sodium ppm ASTM D5185m >20 4 3 4 Potassium ppm ASTM D5185m >20 4 3 4 VISUAL method limit/base current history1 history2 White Metal scalar *Visual NONE NONE NONE Yellow Metal scalar *Visual NONE NONE NONE NONE Yellow Metal scalar *Visual NONE NONE NONE NONE Yellow Metal scalar *Visual NONE NONE NONE NONE	Magnesium	ppm	ASTM D5185m		<u>-</u>		
Sulfur		ppm	ASTM D5185m				
CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >20 5 7 7 Sodium ppm ASTM D5185m >20 5 7 7 Sodium ppm ASTM D5185m >20 4 3 4 VISUAL method limit/base current history1 history2 White Metal scalar *Visual NONE NONE NONE NONE NONE NONE Precipitate scalar *Visual NONE NONE NONE NONE NONE Silt scalar *Visual NONE NONE NONE NONE NONE Silt scalar *Visual NONE NONE NONE NONE NONE NONE NONE Silt scalar *Visual NONE NONE NONE NONE NONE NONE NONE NON		ppm					
CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >20 5 7 7 Sodium ppm ASTM D5185m 6 8 <1 Potassium ppm ASTM D5185m >20 4 3 4 VISUAL method limit/base current history1 history2 White Metal scalar *Visual NONE NONE NONE NONE NONE NONE Precipitate scalar *Visual NONE NONE NONE NONE NONE NONE Silt scalar *Visual NONE NONE NONE NONE NONE Silt scalar *Visual NONE NONE NONE NONE NONE NONE NONE NON		ppm					
Silicon			ASTM D5185m		1468	1343	1314
Sodium ppm ASTM D5185m	CONTAMINAN	ITS	method	limit/base	current	history1	history2
PotassiumppmASTM D5185m>20434VISUALmethodlimit/basecurrenthistory1history2White Metalscalar*VisualNONENONENONENONEYellow Metalscalar*VisualNONENONENONENONEPrecipitatescalar*VisualNONENONENONENONEBiltscalar*VisualNONENONENONENONEDebrisscalar*VisualNONENONENONENONEBand/Dirtscalar*VisualNONENONENONENONEAppearancescalar*VisualNORMLNORMLNORMLNORMLNORMLDodorscalar*VisualNORMLNORMLNORMLNORMLNORMLEmulsified Waterscalar*Visual>0.1NEGNEGNEGFree Waterscalar*VisualNEGNEGNEG				>20			
White Metal scalar *Visual NONE NONE NONE NONE NONE NONE NONE NON		ppm					
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 Ddor scalar *Visual NORML NORML NORML NORML Emulsified Water scalar *Visual >0.1 NEG NEG NEG Free Water scalar *Visual NEG NEG NEG		ppm		>20	4	3	4
Yellow Metalscalar*VisualNONENONENONENONEPrecipitatescalar*VisualNONENONENONENONESiltscalar*VisualNONENONENONENONEDebrisscalar*VisualNONENONENONENONESand/Dirtscalar*VisualNONENONENONENONEAppearancescalar*VisualNORMLNORMLNORMLNORMLNORMLDdorscalar*VisualNORMLNORMLNORMLNORMLNORMLEmulsified Waterscalar*Visual>0.1NEGNEGNEGFree Waterscalar*VisualNEGNEGNEG	VISUAL		method	limit/base	current	history1	history2
Precipitate scalar *Visual NONE NONE NONE NONE NONE Silt scalar *Visual NONE NONE NONE NONE NONE NONE NONE Scalar *Visual NONE NONE NONE NONE NONE NONE Scalar *Visual NONE NONE NONE NONE NONE NONE NONE NON		scalar		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 NORML Ddor 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 Sand/Dirt scalar *Visual NONE NONE NONE NONE Appearance scalar *Visual NORML NORML NORML NORML Ddor scalar *Visual NORML NORML NORML NORML Emulsified Water scalar *Visual >0.1 NEG NEG NEG Free Water scalar *Visual NEG NEG NEG							
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							
Appearance scalar *Visual NORML NORML NORML NORML NORML Odor scalar *Visual NORML 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 NORML NORML Emulsified Water scalar *Visual >0.1 NEG NEG NEG NEG NEG NEG		scalar					NONE
Emulsified Water scalar *Visual >0.1 NEG NEG NEG Free Water scalar *Visual NEG NEG NEG	• •	scalar			_		
Free Water scalar *Visual NEG NEG NEG		scalar	*Visual	NORML	NORML	NORML	NORML
				>0.1			
FLUID PROPERTIES method limit/base current history1 history2	Free Water	scalar	*Visual		NEG	NEG	NEG
	FLUID PROPE	RTIES	method	limit/base	current	history1	history2

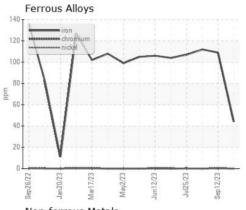


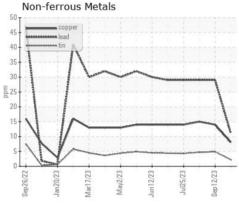
OIL ANALYSIS REPORT

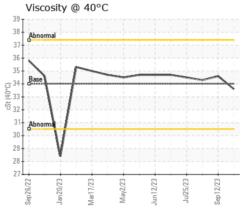


SAMPLE IMAGES	method	limit/base	current	history1	history2
Color			no image	no image	no image
Bottom			no image	no image	no image

GRAPHS











Laboratory Sample No. Lab Number Unique Number : 10670423 Test Package : FLEET

: GFL0094277 : 05963872

To discuss this sample report, contact Customer Service at 1-800-237-1369.

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 28 Sep 2023 Diagnosed : 01 Oct 2023 Diagnostician : Don Baldridge

GFL Environmental - 010 - Stockbridge

1280 Rum Creek Parkway Stockbridge, GA US 30281

Contact: JOSHUA TINKER

joshuatinker@gflenv.com T:

* - 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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