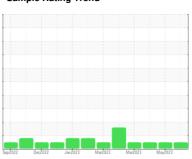


OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Machine Id **812044**

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.

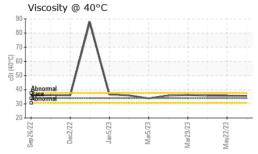
Fluid Condition

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

| Client Info GFL0086151 GFL0082917 GFL008091 Gample Date Client Info 14 Jul 2023 22 May 2023 20 Apr 2023 20 A | 68 (GAL) | | Sep2022 | Dec2022 Jan2023 | Mar2023 Mar2023 M | ay2023 | |
|--|---|--------|-------------|-----------------|-------------------|-------------|-------------|
| Client Info | SAMPLE INFOR | MATION | method | limit/base | current | history1 | history2 |
| Machine Age | Sample Number | | Client Info | | GFL0086151 | GFL0082917 | GFL008091 |
| Dil Age | Sample Date | | Client Info | | 14 Jul 2023 | 22 May 2023 | 20 Apr 2023 |
| Dil Changed Client Info Not Changed Nor Changed Normal | Machine Age | hrs | Client Info | | 5626 | 5160 | 4869 |
| NORMAL NORMAL NORMAL NORMAL WEAR METALS method limit/base current history1 history2 hist | Oil Age | hrs | Client Info | | 912 | 423 | 155 |
| WEAR METALS method limit/base current history1 history2 ron ppm ASTM D5185m >160 91 84 87 Chromium ppm ASTM D5185m >5 <1 | Oil Changed | | Client Info | | Not Changd | Not Changd | Not Changd |
| Description | Sample Status | | | | NORMAL | NORMAL | NORMAL |
| Chromium ppm ASTM D5185m >5 <1 0 <1 Nickel ppm ASTM D5185m >5 0 <1 <1 Titanium ppm ASTM D5185m >5 0 0 0 Silver ppm ASTM D5185m >5 0 0 0 Aluminum ppm ASTM D5185m >50 35 32 31 Lead ppm ASTM D5185m >50 62 58 60 Copper ppm ASTM D5185m >50 62 58 60 Copper ppm ASTM D5185m >50 62 58 60 Copper ppm ASTM D5185m >10 7 7 7 7 Vanadium ppm ASTM D5185m 0 0 0 0 0 Cadmium ppm ASTM D5185m 70 87 94 1 1 1 1 1 1 1 | WEAR METAL | _S | method | limit/base | current | history1 | history2 |
| Nickel | ron | ppm | ASTM D5185m | >160 | 91 | 84 | 87 |
| Description | Chromium | ppm | ASTM D5185m | >5 | <1 | 0 | <1 |
| Silver | Nickel | ppm | ASTM D5185m | >5 | 0 | <1 | <1 |
| Aluminum | Γitanium | ppm | ASTM D5185m | | 0 | 0 | 0 |
| Lead | Silver | ppm | ASTM D5185m | >5 | 0 | 0 | 0 |
| AsTM D5185m Solution Soluti | Aluminum | ppm | ASTM D5185m | >50 | 35 | 32 | 31 |
| Description | _ead | | ASTM D5185m | >50 | | | 60 |
| Tin | Copper | | ASTM D5185m | >225 | 68 | 57 | 55 |
| 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 70 87 94 Boron ppm ASTM D5185m 0 0 0 Barium ppm ASTM D5185m 0 0 0 Molybdenum ppm ASTM D5185m 1 1 1 Manganese ppm ASTM D5185m 2 2 2 2 Magnesium ppm ASTM D5185m 55 53 50 50 Phosphorus ppm ASTM D5185m 266 267 260 260 Zinc ppm ASTM D5185m 0 0 5 53 50 Phosphorus ppm ASTM D5185m 0 0 0 5 Zinc ppm ASTM D5 | • | | | | 7 | | |
| Cadmium ppm ASTM D5185m 0 0 0 ADDITIVES method limit/base current history1 history2 Boron ppm ASTM D5185m 70 87 94 Barium ppm ASTM D5185m 0 0 <1 | Vanadium | | | | | 0 | 0 |
| Boron ppm ASTM D5185m 70 87 94 | | | | | | | |
| Barium | ADDITIVES | | method | limit/base | current | history1 | history2 |
| Molybdenum ppm ASTM D5185m 1 1 1 1 Manganese ppm ASTM D5185m 2 2 2 2 Magnesium ppm ASTM D5185m 0 <1 3 Calcium ppm ASTM D5185m 55 53 50 Phosphorus ppm ASTM D5185m 266 267 260 Zinc ppm ASTM D5185m 0 0 5 Sulfur ppm ASTM D5185m 0 0 5 Sulfur ppm ASTM D5185m 20 5 5 4 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >20 5 5 4 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >20 5 5 4 VISUAL method | Boron | ppm | ASTM D5185m | | 70 | 87 | 94 |
| Manganese ppm ASTM D5185m 2 3 3 | Barium | ppm | ASTM D5185m | | 0 | 0 | <1 |
| Manganese ppm ASTM D5185m 2 6 6 7 2 6 0 1 | Molybdenum | ppm | ASTM D5185m | | 1 | 1 | 1 |
| Magnesium ppm ASTM D5185m 0 <1 3 Calcium ppm ASTM D5185m 55 53 50 Phosphorus ppm ASTM D5185m 266 267 260 Zinc ppm ASTM D5185m 0 0 5 Sulfur ppm ASTM D5185m 0 0 5 Sulfur ppm ASTM D5185m 1141 1123 1014 CONTAMINANTS method limit/base current history1 history2 COIL ppm ASTM D5185m >20 5 5 4 <td>•</td> <td>ppm</td> <td>ASTM D5185m</td> <td></td> <td>2</td> <td>2</td> <td>2</td> | • | ppm | ASTM D5185m | | 2 | 2 | 2 |
| Calcium ppm ASTM D5185m 55 53 50 Phosphorus ppm ASTM D5185m 266 267 260 Zinc ppm ASTM D5185m 0 0 5 Sulfur ppm ASTM D5185m 1141 1123 1014 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >20 5 5 4 Sodium ppm ASTM D5185m >20 5 4 4 Potassium ppm ASTM D5185m >20 5 4 4 VISUAL method limit/base current history1 history2 White Metal scalar *Visual NONE NONE NONE Yellow Metal scalar *Visual NONE NONE NONE Yellow Metal scalar *Visual NONE NONE NONE Precipitate scalar | - | ppm | ASTM D5185m | | 0 | <1 | 3 |
| Phosphorus ppm ASTM D5185m 266 267 260 Zinc ppm ASTM D5185m 0 0 5 Sulfur ppm ASTM D5185m 1141 1123 1014 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >20 5 5 4 Sodium ppm ASTM D5185m >20 5 4 4 Potassium ppm ASTM D5185m >20 5 4 4 VISUAL method limit/base current history1 history2 White Metal scalar *Visual NONE NONE NONE White Metal scalar *Visual NONE NONE NONE Wellow Metal scalar *Visual NONE NONE NONE Precipitate scalar *Visual NONE NONE NONE NONE Debris | Calcium | ppm | ASTM D5185m | | 55 | 53 | 50 |
| Zinc ppm ASTM D5185m 0 0 5 Sulfur ppm ASTM D5185m 1141 1123 1014 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >20 5 5 4 Sodium ppm ASTM D5185m 6 7 6 6 Potassium ppm ASTM D5185m >20 5 4 4 VISUAL method limit/base current history1 history2 White Metal scalar *Visual NONE NONE NONE NONE Yellow Metal scalar *Visual NONE | Phosphorus | | ASTM D5185m | | 266 | 267 | 260 |
| Sulfur ppm ASTM D5185m 1141 1123 1014 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >20 5 5 4 Sodium ppm ASTM D5185m >20 5 4 4 Potassium ppm ASTM D5185m >20 5 4 4 VISUAL method limit/base current history1 history2 White Metal scalar *Visual NONE NONE NONE NONE Yellow Metal scalar *Visual NONE NONE <td></td> <td></td> <td>ASTM D5185m</td> <td></td> <td>0</td> <td>0</td> <td>5</td> | | | ASTM D5185m | | 0 | 0 | 5 |
| Silicon | | | | | _ | | |
| Sodium ppm ASTM D5185m 6 7 6 Potassium ppm ASTM D5185m >20 5 4 4 VISUAL method limit/base current history1 history2 White 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 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 NORM NEG NEG NEG | CONTAMINAN | ITS | method | limit/base | current | history1 | history2 |
| Potassium ppm ASTM D5185m >20 5 4 4 VISUAL method limit/base current history1 history2 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 Ddor scalar *Visual NORML NORML NORML NORML Emulsified Water scalar *Visual >0.1 NEG NEG NEG Free Water scalar *Visual NEG NEG NEG | Silicon | ppm | ASTM D5185m | >20 | 5 | 5 | 4 |
| White Metal scalar *Visual NONE NONE NONE NONE NONE NONE NONE Precipitate scalar *Visual NONE NONE NONE NONE NONE NONE NONE Silt scalar *Visual NONE NONE NONE NONE NONE NONE NONE NON | Sodium | ppm | ASTM D5185m | | 6 | 7 | 6 |
| 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 | Potassium | ppm | ASTM D5185m | >20 | 5 | 4 | 4 |
| Yellow Metalscalar*VisualNONENONENONENONEPrecipitatescalar*VisualNONENONENONENONESiltscalar*VisualNONENONENONENONEDebrisscalar*VisualNONENONENONENONESand/Dirtscalar*VisualNONENONENONENONEAppearancescalar*VisualNORMLNORMLNORMLNORMLNORMLOdorscalar*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 Scalar *Visual NONE NONE NONE NONE NONE Scand/Dirt scalar *Visual NONE NONE NONE NONE NONE NONE NONE NON | 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 Ddor 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 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 | Silt | scalar | *Visual | NONE | NONE | NONE | NONE |
| Appearance scalar *Visual NORML 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 | Debris | scalar | *Visual | NONE | NONE | NONE | NONE |
| Odor scalar *Visual NORML 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 |
| 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 |
| Free Water scalar *Visual NEG NEG NEG | Emulsified Water | | | >0.1 | NEG | NEG | NEG |
| FLUID PROPERTIES method limit/base current history1 history2 | Free Water | scalar | *Visual | | NEG | NEG | NEG |
| | FLUID PROPE | RTIES | method | limit/base | current | history1 | history2 |

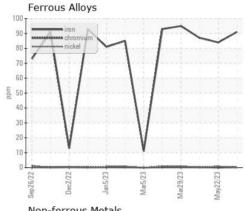


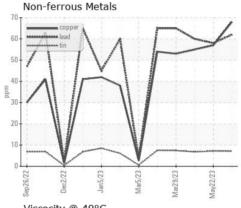
OIL ANALYSIS REPORT

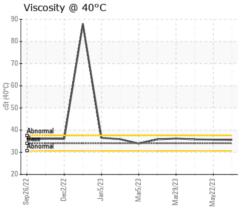


| SAMPLE IMAGES | method | limit/base | current | history1 | history2 |
|---------------|--------|------------|----------|----------|----------|
| Color | | | no image | no image | no image |
| Bottom | | | no image | no image | no image |

GRAPHS











Laboratory Sample No. Lab Number

Unique Number : 10563079

: GFL0086151 : 05901723

Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 18 Jul 2023

Diagnosed : 20 Jul 2023

Diagnostician : Don Baldridge

Contact: JOSHUA TINKER

joshuatinker@gflenv.com T:

Stockbridge, GA

US 30281

1280 Rum Creek Parkway

F:

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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