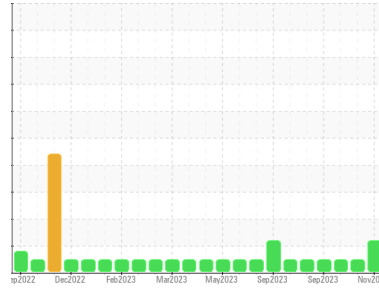




PROBLEM SUMMARY

Sample Rating Trend



VISUAL METAL



Machine Id
10651
 Component
Transmission (Auto)
 Fluid
PETRO CANADA DuraDrive HD Synthetic 668 (--- GAL)

COMPONENT CONDITION SUMMARY

No relevant graphs to display

RECOMMENDATION

We suspect abnormal metal contamination may be due to sampling method. No corrective action is recommended at this time. Resample at the next service interval to monitor.

PROBLEMATIC TEST RESULTS

| Sample Status | | | | ABNORMAL | NORMAL | NORMAL |
|---------------|--------|---------|------|----------|--------|--------|
| White Metal | scalar | *Visual | NONE | ▲ MODER | NONE | NONE |

Customer Id: GFL010
Sample No.: GFL0101214
Lab Number: 06015940
Test Package: FLEET



To manage this report scan the QR code

To discuss the diagnosis or test data:
 Jonathan Hester +1 919-379-4092 x4092
jhester@wearcheckusa.com

To change component or sample information:
 Customer Service +1 1-800-237-1369
customerservice@wearcheck.com

RECOMMENDED ACTIONS

There are no recommended actions for this sample.

HISTORICAL DIAGNOSIS

15 Nov 2023 Diag: Don Baldrige

NORMAL



Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the fluid. The condition of the fluid is acceptable for the time in service.

view report



23 Oct 2023 Diag: Don Baldrige

NORMAL



Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the oil. The condition of the oil is acceptable for the time in service.

view report



21 Sep 2023 Diag: Sean Felton

NORMAL



Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the fluid. The condition of the fluid is acceptable for the time in service.

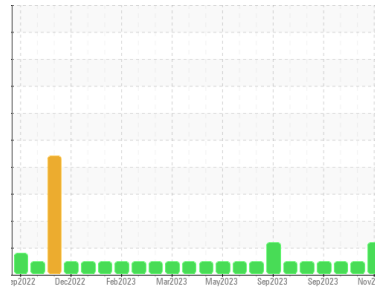
view report





OIL ANALYSIS REPORT

Sample Rating Trend



VISUAL METAL



Machine Id
10651

Component
Transmission (Auto)

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

DIAGNOSIS

Recommendation

We suspect abnormal metal contamination may be due to sampling method. No corrective action is recommended at this time. Resample at the next service interval to monitor.

Wear

Moderate concentration of visible metal present. 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 | history1 | history2 |
|---------------|-------------|--------------------|-------------|-------------|
| Sample Number | Client Info | GFL0101214 | GFL0097930 | GFL0097915 |
| Sample Date | Client Info | 20 Nov 2023 | 15 Nov 2023 | 23 Oct 2023 |
| Machine Age | hrs | 20377 | 20515 | 20377 |
| Oil Age | hrs | 502 | 381 | 243 |
| Oil Changed | Client Info | Not Changed | Not Changed | Not Changed |
| Sample Status | | ABNORMAL | NORMAL | NORMAL |

CONTAMINATION

| method | limit/base | current | history1 | history2 |
|--------|----------------|------------|----------|----------|
| Water | WC Method >0.1 | NEG | NEG | NEG |

WEAR METALS

| method | limit/base | current | history1 | history2 |
|----------|----------------------|-----------|----------|----------|
| Iron | ppm ASTM D5185m >160 | 27 | 18 | 44 |
| Chromium | ppm ASTM D5185m >5 | 0 | 0 | 0 |
| Nickel | ppm ASTM D5185m >5 | 0 | 0 | 0 |
| Titanium | ppm ASTM D5185m | 0 | 0 | 0 |
| Silver | ppm ASTM D5185m >5 | 0 | 0 | 0 |
| Aluminum | ppm ASTM D5185m >50 | 2 | <1 | 5 |
| Lead | ppm ASTM D5185m >50 | 0 | 0 | 1 |
| Copper | ppm ASTM D5185m >225 | 2 | <1 | 4 |
| Tin | ppm ASTM D5185m >10 | 0 | 0 | <1 |
| 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 | 74 | 94 | 69 |
| Barium | ppm ASTM D5185m | 0 | 0 | 0 |
| Molybdenum | ppm ASTM D5185m | 0 | 0 | 0 |
| Manganese | ppm ASTM D5185m | <1 | 0 | <1 |
| Magnesium | ppm ASTM D5185m | 1 | 0 | 2 |
| Calcium | ppm ASTM D5185m | 133 | 124 | 122 |
| Phosphorus | ppm ASTM D5185m | 211 | 221 | 225 |
| Zinc | ppm ASTM D5185m | 0 | 5 | 16 |
| Sulfur | ppm ASTM D5185m | 1639 | 1540 | 1646 |

CONTAMINANTS

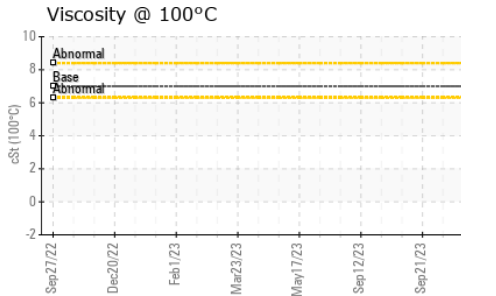
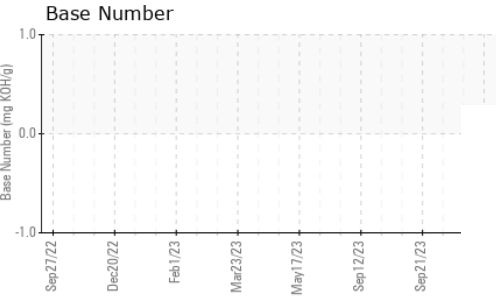
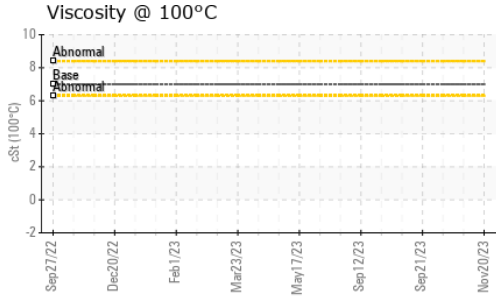
| method | limit/base | current | history1 | history2 |
|-----------|---------------------|----------|----------|----------|
| Silicon | ppm ASTM D5185m >20 | 6 | 4 | 5 |
| Sodium | ppm ASTM D5185m | 2 | 2 | 2 |
| Potassium | ppm ASTM D5185m >20 | 0 | 0 | 0 |

VISUAL

| method | limit/base | current | history1 | history2 |
|------------------|----------------------|----------------|----------|----------|
| White Metal | scalar *Visual NONE | ▲ MODER | NONE | NONE |
| Yellow 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 | LIGHT | 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 |



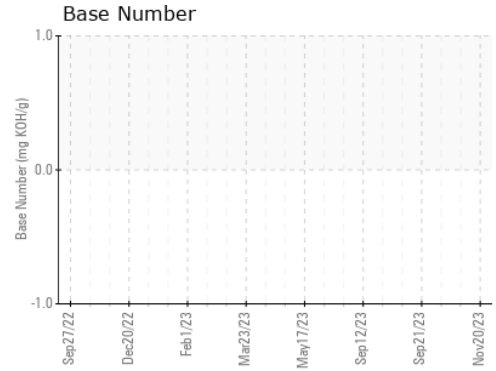
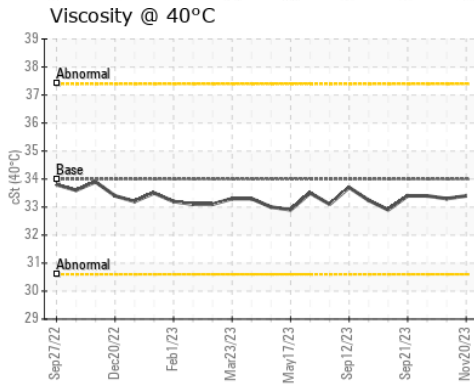
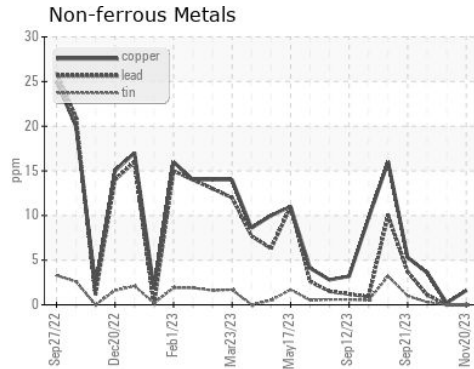
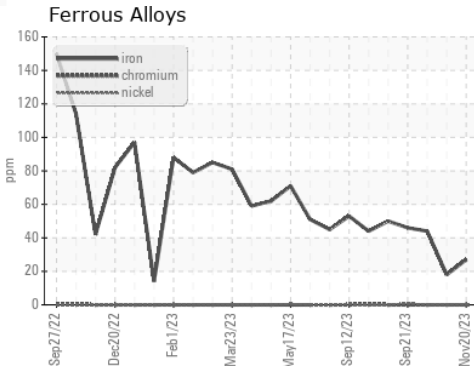
OIL ANALYSIS REPORT



| FLUID PROPERTIES | | method | limit/base | current | history1 | history2 |
|------------------|-----|-----------|------------|-------------|----------|----------|
| Visc @ 40°C | cSt | ASTM D445 | 34 | 33.4 | 33.3 | 33.4 |

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

GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : GFL0101214 **Received** : 22 Nov 2023
Lab Number : 06015940 **Diagnosed** : 27 Nov 2023
Unique Number : 10755084 **Diagnostician** : Jonathan Hester
Test Package : FLEET (Additional Tests: FT-IR, KV100, TBN)

GFL Environmental - 010 - Stockbridge
 1280 Rum Creek Parkway
 Stockbridge, GA
 US 30281
 Contact: JOSHUA TINKER
 joshuatinker@gflenv.com

Certificate L2367
 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)