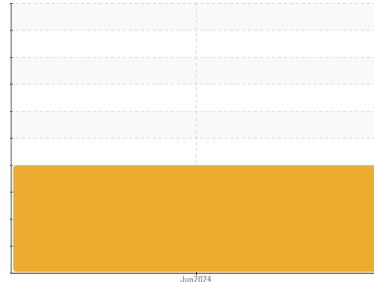




OIL ANALYSIS REPORT

Sample Rating Trend



DIRT



Machine Id
427172
 Component
2 Differential
 Fluid
 {not provided} (--- GAL)

DIAGNOSIS

Recommendation

We advise that you check all areas where dirt can enter the system. Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor. (Customer Sample Comment: 2nd Axle / Tag)

Wear

Gear wear is indicated.

Contamination

Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress.

Fluid Condition

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

| SAMPLE INFORMATION | method | limit/base | current | history1 | history2 |
|--------------------|-------------|-------------|--------------------|----------|----------|
| Sample Number | Client Info | | GFL0123557 | --- | --- |
| Sample Date | Client Info | | 29 Jun 2024 | --- | --- |
| Machine Age | mls | Client Info | 359445 | --- | --- |
| Oil Age | mls | Client Info | 359445 | --- | --- |
| Oil Changed | Client Info | | Changed | --- | --- |
| Sample Status | | | ABNORMAL | --- | --- |

| CONTAMINATION | method | limit/base | current | history1 | history2 |
|---------------|-----------|------------|------------|----------|----------|
| Water | WC Method | >.2 | NEG | --- | --- |

| WEAR METALS | method | limit/base | current | history1 | history2 |
|-------------|--------|------------------|--------------|----------|----------|
| Iron | ppm | ASTM D5185m >500 | ▲ 759 | --- | --- |
| Chromium | ppm | ASTM D5185m >10 | 7 | --- | --- |
| Nickel | ppm | ASTM D5185m >10 | ▲ 28 | --- | --- |
| Titanium | ppm | ASTM D5185m | 1 | --- | --- |
| Silver | ppm | ASTM D5185m | 0 | --- | --- |
| Aluminum | ppm | ASTM D5185m >25 | ● 58 | --- | --- |
| Lead | ppm | ASTM D5185m >25 | 0 | --- | --- |
| Copper | ppm | ASTM D5185m >100 | 4 | --- | --- |
| Tin | ppm | ASTM D5185m >10 | <1 | --- | --- |
| Vanadium | ppm | ASTM D5185m | <1 | --- | --- |
| Cadmium | ppm | ASTM D5185m | 0 | --- | --- |

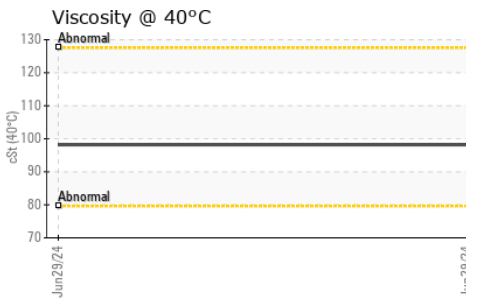
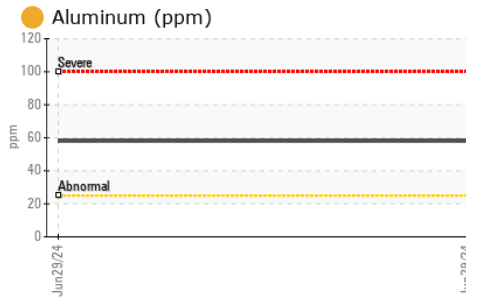
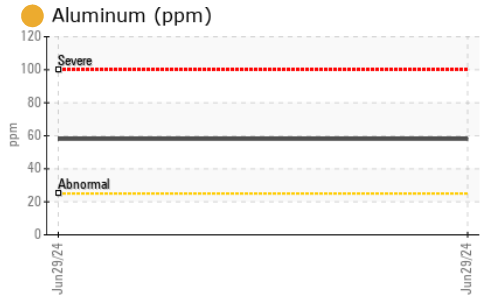
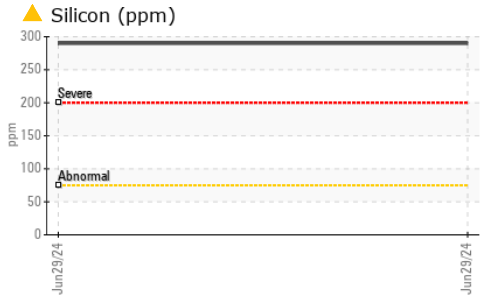
| ADDITIVES | method | limit/base | current | history1 | history2 |
|------------|--------|-------------|--------------|----------|----------|
| Boron | ppm | ASTM D5185m | 146 | --- | --- |
| Barium | ppm | ASTM D5185m | 1 | --- | --- |
| Molybdenum | ppm | ASTM D5185m | 1 | --- | --- |
| Manganese | ppm | ASTM D5185m | 13 | --- | --- |
| Magnesium | ppm | ASTM D5185m | 4 | --- | --- |
| Calcium | ppm | ASTM D5185m | 68 | --- | --- |
| Phosphorus | ppm | ASTM D5185m | 1292 | --- | --- |
| Zinc | ppm | ASTM D5185m | 54 | --- | --- |
| Sulfur | ppm | ASTM D5185m | 25695 | --- | --- |

| CONTAMINANTS | method | limit/base | current | history1 | history2 |
|--------------|--------|-----------------|--------------|----------|----------|
| Silicon | ppm | ASTM D5185m >75 | ▲ 290 | --- | --- |
| Sodium | ppm | ASTM D5185m | 11 | --- | --- |
| Potassium | ppm | ASTM D5185m >20 | 21 | --- | --- |

| VISUAL | method | limit/base | current | history1 | history2 |
|------------------|--------|---------------|--------------|----------|----------|
| 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 >.2 | NEG | --- | --- |
| Free Water | scalar | *Visual | NEG | --- | --- |



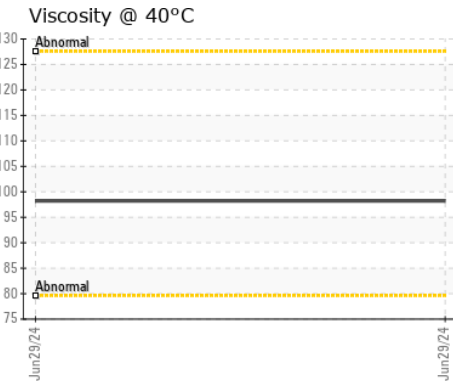
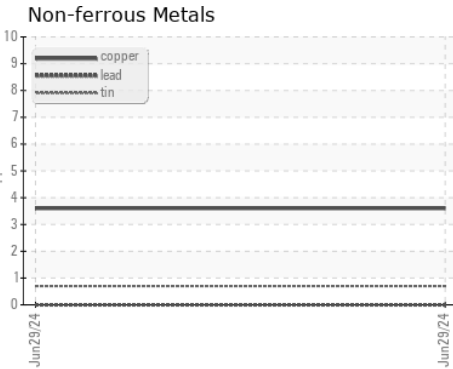
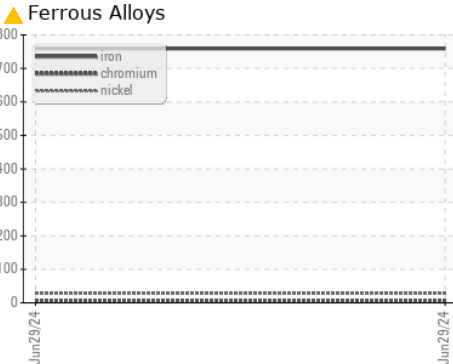
OIL ANALYSIS REPORT



| FLUID PROPERTIES | | method | limit/base | current | history1 | history2 |
|------------------|-----|-----------|------------|-------------|----------|----------|
| Visc @ 40°C | cSt | ASTM D445 | | 98.2 | --- | --- |

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

GRAPHS



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : GFL0123557
Lab Number : 06229012
Unique Number : 11112505
Test Package : FLEET

Received : 05 Jul 2024
Tested : 09 Jul 2024
Diagnosed : 09 Jul 2024 - Sean Felton

GFL Environmental - 983 - Sugar Land Hauling
 16011 West Belfort Street
 Sugar Land, TX
 US 77498
 Contact: TECHNICIAN ACCOUNT
 wcgfldemo@gmail.com

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)

T:
F: