



OIL ANALYSIS REPORT

Sample Rating Trend



DIRT



Machine Id
426138

Component
1 Differential

Fluid
GEAR OIL SAE 75W90 (--- GAL)

DIAGNOSIS

▲ Recommendation

We advise that you check all areas where dirt can enter the system. The oil change at the time of sampling has been noted. Resample at the next service interval to monitor. (Customer Sample Comment: 1 Axle/ Pusher)

▲ 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 | | GFL0105521 | --- | --- |
| Sample Date | Client Info | | 19 Jan 2024 | --- | --- |
| Machine Age | mls | Client Info | 277220 | --- | --- |
| Oil Age | mls | Client Info | 277220 | --- | --- |
| 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 | ▲ 637 | --- | --- |
| Chromium | ppm | ASTM D5185m >10 | 5 | --- | --- |
| Nickel | ppm | ASTM D5185m >10 | ▲ 11 | --- | --- |
| Titanium | ppm | ASTM D5185m | <1 | --- | --- |
| Silver | ppm | ASTM D5185m | 0 | --- | --- |
| Aluminum | ppm | ASTM D5185m >25 | ▲ 8 | --- | --- |
| Lead | ppm | ASTM D5185m >25 | 4 | --- | --- |
| Copper | ppm | ASTM D5185m >100 | 44 | --- | --- |
| Tin | ppm | ASTM D5185m >10 | 2 | --- | --- |
| Vanadium | ppm | ASTM D5185m | 0 | --- | --- |
| Cadmium | ppm | ASTM D5185m | 0 | --- | --- |

ADDITIVES

| | method | limit/base | current | history1 | history2 |
|------------|--------|-------------------|--------------|----------|----------|
| Boron | ppm | ASTM D5185m 400 | 240 | --- | --- |
| Barium | ppm | ASTM D5185m 200 | 0 | --- | --- |
| Molybdenum | ppm | ASTM D5185m 12 | 2 | --- | --- |
| Manganese | ppm | ASTM D5185m | 13 | --- | --- |
| Magnesium | ppm | ASTM D5185m 12 | 3 | --- | --- |
| Calcium | ppm | ASTM D5185m 150 | 43 | --- | --- |
| Phosphorus | ppm | ASTM D5185m 1650 | 1166 | --- | --- |
| Zinc | ppm | ASTM D5185m 125 | 63 | --- | --- |
| Sulfur | ppm | ASTM D5185m 22500 | 22867 | --- | --- |

CONTAMINANTS

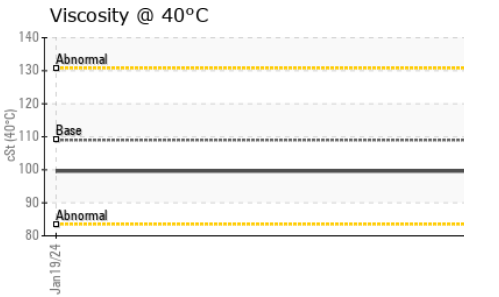
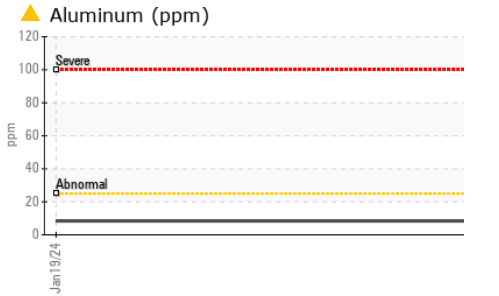
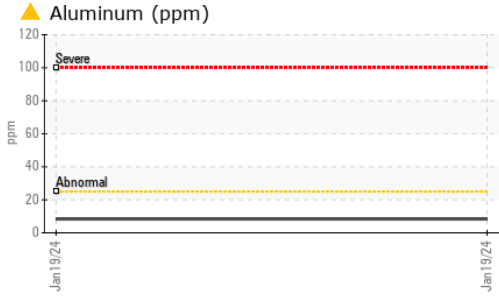
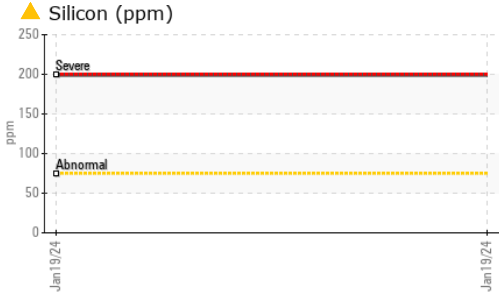
| | method | limit/base | current | history1 | history2 |
|-----------|--------|-----------------|--------------|----------|----------|
| Silicon | ppm | ASTM D5185m >75 | ▲ 199 | --- | --- |
| Sodium | ppm | ASTM D5185m | 0 | --- | --- |
| Potassium | ppm | ASTM D5185m >20 | 13 | --- | --- |

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 | --- | --- |



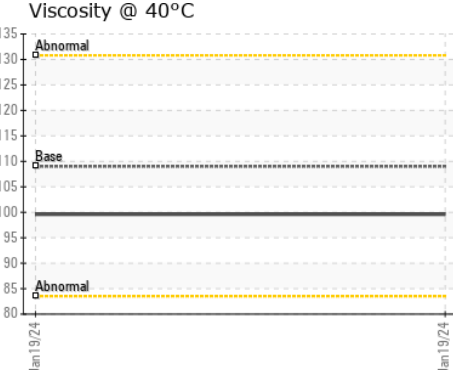
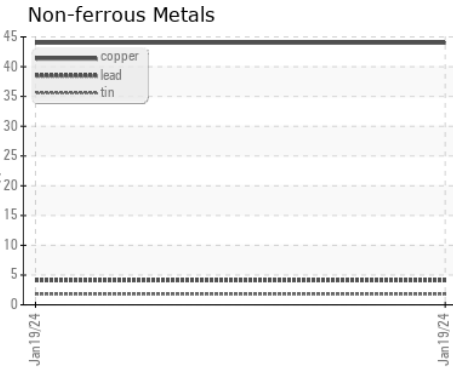
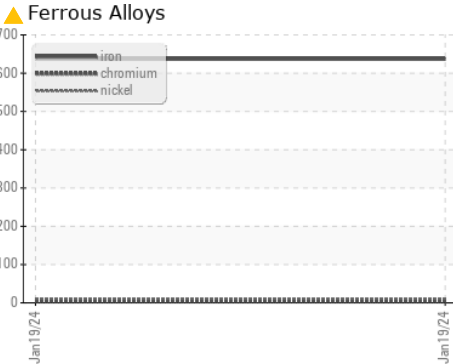
OIL ANALYSIS REPORT



| FLUID PROPERTIES | | method | limit/base | current | history1 | history2 |
|------------------|-----|-----------|------------|-------------|----------|----------|
| Visc @ 40°C | cSt | ASTM D445 | 109 | 99.6 | --- | --- |

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

GRAPHS



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : GFL0105521 **Recieved** : 24 Jan 2024
Lab Number : **06069784** **Diagnosed** : 26 Jan 2024
Unique Number : 10846461 **Diagnostician** : Don Baldrige
Test Package : FLEET

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: