



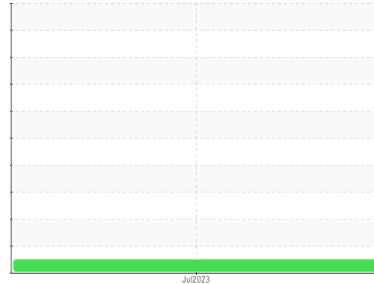
OIL ANALYSIS REPORT

Sample Rating Trend

NORMAL



Machine Id
429123
Component
2 Differential
Fluid
GEAR OIL SAE 80W90 (--- GAL)



DIAGNOSIS

Recommendation

The oil change at the time of sampling has been noted. Resample at the next service interval to monitor. (Customer Sample Comment: 2nd Axle / Tag)

Wear

Metal levels are typical for a new component breaking in.

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 INFORMATION

| method | limit/base | current | history1 | history2 |
|---------------|-----------------|--------------------|----------|----------|
| Sample Number | Client Info | GFL0085416 | --- | --- |
| Sample Date | Client Info | 06 Jul 2023 | --- | --- |
| Machine Age | mls Client Info | 232271 | --- | --- |
| Oil Age | mls Client Info | 232272 | --- | --- |
| Oil Changed | Client Info | Changed | --- | --- |
| Sample Status | | NORMAL | --- | --- |

WEAR METALS

| method | limit/base | current | history1 | history2 |
|----------|----------------------|--------------|----------|----------|
| Iron | ppm ASTM D5185m >870 | 128 | --- | --- |
| Chromium | ppm ASTM D5185m >8 | <1 | --- | --- |
| Nickel | ppm ASTM D5185m >25 | 12 | --- | --- |
| Titanium | ppm ASTM D5185m >4 | 0 | --- | --- |
| Silver | ppm ASTM D5185m | 0 | --- | --- |
| Aluminum | ppm ASTM D5185m >40 | 51 | --- | --- |
| Lead | ppm ASTM D5185m >25 | 0 | --- | --- |
| Copper | ppm ASTM D5185m >60 | 0 | --- | --- |
| Tin | ppm ASTM D5185m >5 | 0 | --- | --- |
| Vanadium | ppm ASTM D5185m | 0 | --- | --- |
| Cadmium | ppm ASTM D5185m | 0 | --- | --- |

ADDITIVES

| method | limit/base | current | history1 | history2 |
|------------|-----------------------|--------------|----------|----------|
| Boron | ppm ASTM D5185m 400 | 101 | --- | --- |
| Barium | ppm ASTM D5185m 200 | 0 | --- | --- |
| Molybdenum | ppm ASTM D5185m 12 | <1 | --- | --- |
| Manganese | ppm ASTM D5185m | 2 | --- | --- |
| Magnesium | ppm ASTM D5185m 12 | 2 | --- | --- |
| Calcium | ppm ASTM D5185m 150 | 12 | --- | --- |
| Phosphorus | ppm ASTM D5185m 1650 | 1020 | --- | --- |
| Zinc | ppm ASTM D5185m 125 | 9 | --- | --- |
| Sulfur | ppm ASTM D5185m 22500 | 23463 | --- | --- |

CONTAMINANTS

| method | limit/base | current | history1 | history2 |
|-----------|----------------------|------------|----------|----------|
| Silicon | ppm ASTM D5185m >285 | 219 | --- | --- |
| Sodium | ppm ASTM D5185m >170 | 3 | --- | --- |
| Potassium | ppm ASTM D5185m >20 | 0 | --- | --- |

VISUAL

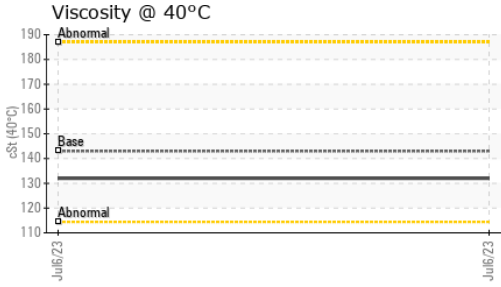
| method | limit/base | current | history1 | history2 |
|------------------|----------------------|--------------|----------|----------|
| White Metal | scalar *Visual NONE | NONE | --- | --- |
| Yellow Metal | scalar *Visual NONE | NONE | --- | --- |
| Precipitate | scalar *Visual NONE | NONE | ---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

FLUID PROPERTIES

| method | limit/base | current | history1 | history2 |
|-------------|-------------------|------------|----------|----------|
| Visc @ 40°C | cSt ASTM D445 143 | 132 | --- | --- |

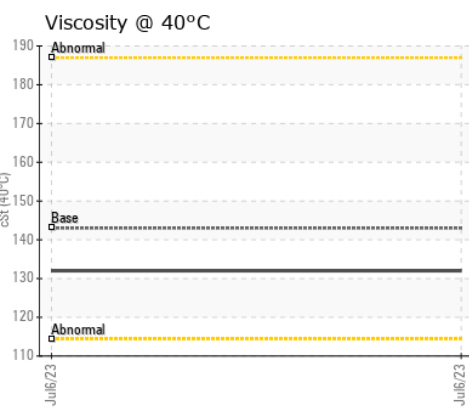
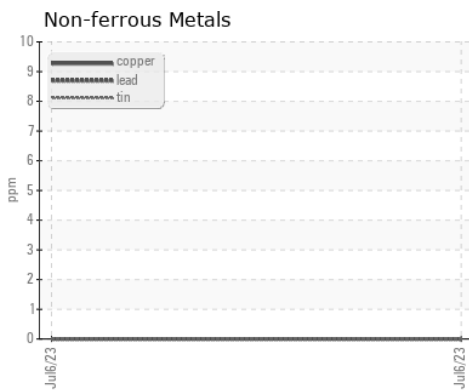
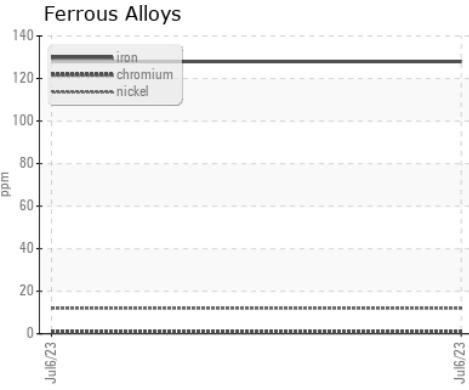


OIL ANALYSIS REPORT



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

GRAPHS



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : GFL0085416 **Received** : 12 Jul 2023
Lab Number : 05896493 **Diagnosed** : 13 Jul 2023
Unique Number : 10552303 **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)