



Machine Id
427161
 Component
Differential
 Fluid
GEAR OIL SAE 75W90 (--- GAL)

RECOMMENDATION

We advise that you check all areas where dirt can enter the system.
 We advise that you check for the source of water entry. We recommend an early resample to monitor this condition.

WEAR

Bearing and/or gear wear is indicated.

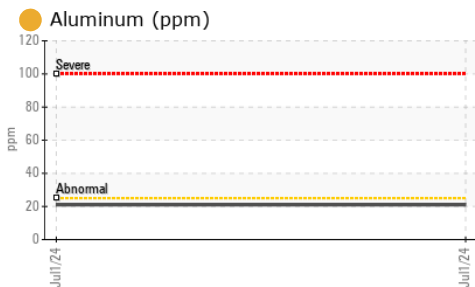
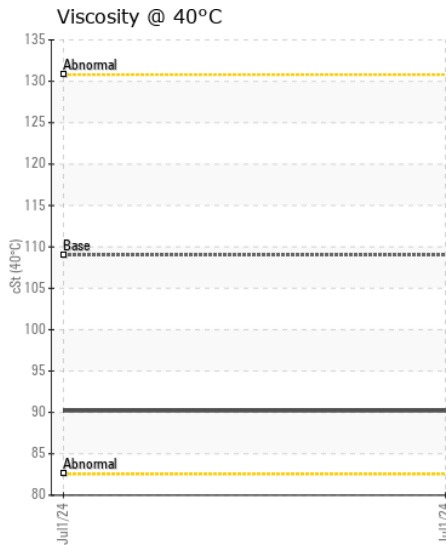
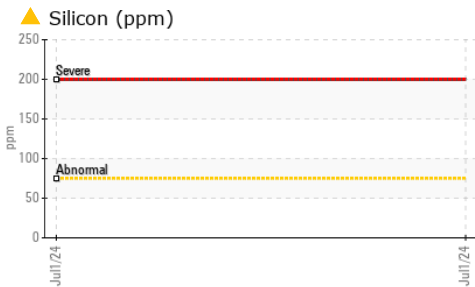
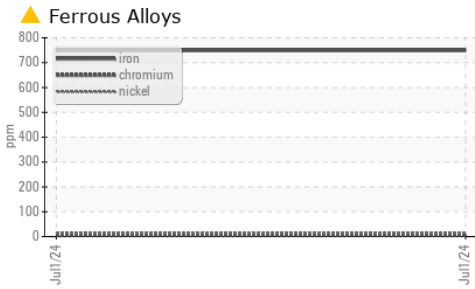
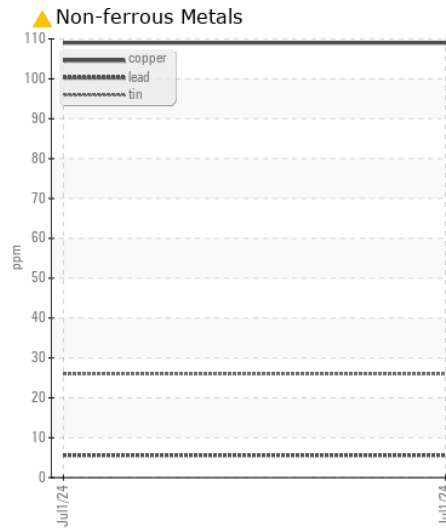
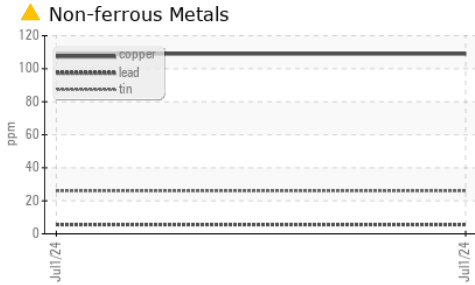
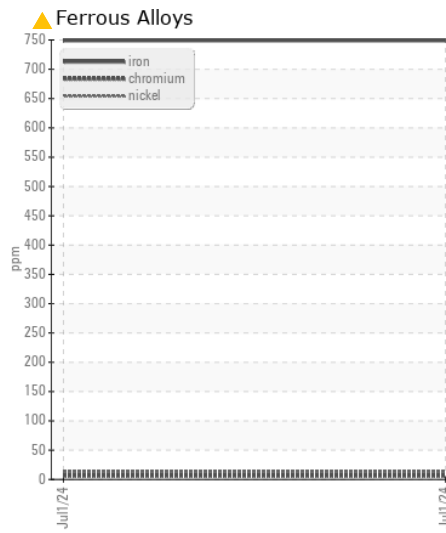
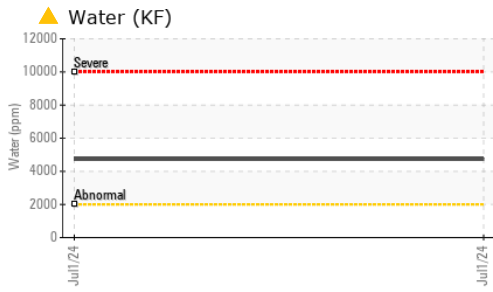
CONTAMINATION

Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress. There is a moderate concentration of water present in the oil.

FLUID CONDITION

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

| Test | UOM | Method | Limit/Abn | Current | History1 | History2 |
|------------------|--------|-------------|-----------|--------------------|----------|----------|
| Sample Number | | Client Info | | GFL0066535 | --- | --- |
| Sample Date | | Client Info | | 01 Jul 2024 | --- | --- |
| Machine Age | hrs | Client Info | | 411830 | --- | --- |
| Oil Age | hrs | Client Info | | 0 | --- | --- |
| Filter Age | hrs | Client Info | | 0 | --- | --- |
| Oil Changed | | Client Info | | Not Changd | --- | --- |
| Filter Changed | | Client Info | | Not Changd | --- | --- |
| Sample Status | | | | ABNORMAL | --- | --- |
| Iron | ppm | ASTM D5185m | >500 | ▲ 749 | --- | --- |
| Chromium | ppm | ASTM D5185m | >10 | 6 | --- | --- |
| Nickel | ppm | ASTM D5185m | >10 | ▲ 13 | --- | --- |
| Titanium | ppm | ASTM D5185m | | <1 | --- | --- |
| Silver | ppm | ASTM D5185m | | 0 | --- | --- |
| Aluminum | ppm | ASTM D5185m | >25 | ● 21 | --- | --- |
| Lead | ppm | ASTM D5185m | >25 | 6 | --- | --- |
| Copper | ppm | ASTM D5185m | >100 | ▲ 109 | --- | --- |
| Tin | ppm | ASTM D5185m | >10 | ▲ 26 | --- | --- |
| Vanadium | ppm | ASTM D5185m | | 0 | --- | --- |
| White Metal | scalar | *Visual | NONE | NONE | --- | --- |
| Yellow Metal | scalar | *Visual | NONE | NONE | --- | --- |
| Silicon | ppm | ASTM D5185m | >75 | ▲ 200 | --- | --- |
| Potassium | ppm | ASTM D5185m | >20 | 8 | --- | --- |
| Water | % | ASTM D6304 | >.2 | ▲ 0.473 | --- | --- |
| ppm Water | ppm | ASTM D6304 | >2000 | ▲ 4730 | --- | --- |
| Silt | scalar | *Visual | NONE | MODER | --- | --- |
| 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 | ▲ 0.2% | --- | --- |
| Sodium | ppm | ASTM D5185m | | 6 | --- | --- |
| Boron | ppm | ASTM D5185m | 400 | 76 | --- | --- |
| Barium | ppm | ASTM D5185m | 200 | 0 | --- | --- |
| Molybdenum | ppm | ASTM D5185m | 12 | <1 | --- | --- |
| Manganese | ppm | ASTM D5185m | | 13 | --- | --- |
| Magnesium | ppm | ASTM D5185m | 12 | 4 | --- | --- |
| Calcium | ppm | ASTM D5185m | 150 | 74 | --- | --- |
| Phosphorus | ppm | ASTM D5185m | 1650 | 1498 | --- | --- |
| Zinc | ppm | ASTM D5185m | 125 | 133 | --- | --- |
| Sulfur | ppm | ASTM D5185m | 22500 | 28320 | --- | --- |
| Visc @ 40°C | cSt | ASTM D445 | 109 | 90.2 | --- | --- |



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : GFL0066535 **Received** : 08 Jul 2024
Lab Number : 06230577 **Tested** : 10 Jul 2024
Unique Number : 11114070 **Diagnosed** : 10 Jul 2024 - Sean Felton
Test Package : FLEET (Additional Tests: KF)

GFL Environmental - 977 - Montgomery Hauling
 17851 Highway 105 E
 Conroe, TX
 US 77306
 Contact: Erik Bazaldua
 ebazaldua@gflenv.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)

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F: