



|                 |                 |
|-----------------|-----------------|
| WEAR            | <b>ABNORMAL</b> |
| CONTAMINATION   | <b>NORMAL</b>   |
| FLUID CONDITION | <b>NORMAL</b>   |

Machine Id  
**427184**  
 Component  
**2 Differential**  
 Fluid  
**{not provided} (--- GAL)**

**RECOMMENDATION**

No corrective action is recommended at this time. Resample at the next service interval to monitor. Please specify the brand, type, and viscosity of the oil on your next sample. ( Customer Sample Comment: 2nd Axle / Tag )

| Test           | UOM | Method      | Limit/Abn | Current            | History1    | History2 |
|----------------|-----|-------------|-----------|--------------------|-------------|----------|
| Sample Number  |     | Client Info |           | <b>GFL0123531</b>  | GFL0075318  | ---      |
| Sample Date    |     | Client Info |           | <b>13 Jun 2024</b> | 12 Jun 2023 | ---      |
| Machine Age    | mls | Client Info |           | <b>358831</b>      | 326841      | ---      |
| Oil Age        | mls | Client Info |           | <b>358831</b>      | 363621      | ---      |
| Filter Age     | mls | Client Info |           | <b>0</b>           | 0           | ---      |
| Oil Changed    |     | Client Info |           | <b>Changed</b>     | Changed     | ---      |
| Filter Changed |     | Client Info |           | <b>N/A</b>         | Changed     | ---      |
| Sample Status  |     |             |           | <b>ABNORMAL</b>    | ABNORMAL    | ---      |

**WEAR**

The nickel level is abnormal. All other component wear rates are normal.

|              |        |             |      |              |      |     |
|--------------|--------|-------------|------|--------------|------|-----|
| Iron         | ppm    | ASTM D5185m | >500 | <b>299</b>   | 479  | --- |
| Chromium     | ppm    | ASTM D5185m | >10  | <b>2</b>     | 4    | --- |
| Nickel       | ppm    | ASTM D5185m | >10  | <b>▲ 24</b>  | 9    | --- |
| Titanium     | ppm    | ASTM D5185m |      | <b>&lt;1</b> | <1   | --- |
| Silver       | ppm    | ASTM D5185m |      | <b>0</b>     | 0    | --- |
| Aluminum     | ppm    | ASTM D5185m | >25  | <b>2</b>     | ● 23 | --- |
| Lead         | ppm    | ASTM D5185m | >25  | <b>0</b>     | 0    | --- |
| Copper       | ppm    | ASTM D5185m | >100 | <b>1</b>     | <1   | --- |
| Tin          | ppm    | ASTM D5185m | >10  | <b>0</b>     | 0    | --- |
| Vanadium     | ppm    | ASTM D5185m |      | <b>0</b>     | 0    | --- |
| White Metal  | scalar | *Visual     | NONE | <b>NONE</b>  | NONE | --- |
| Yellow Metal | scalar | *Visual     | NONE | <b>NONE</b>  | NONE | --- |

**CONTAMINATION**

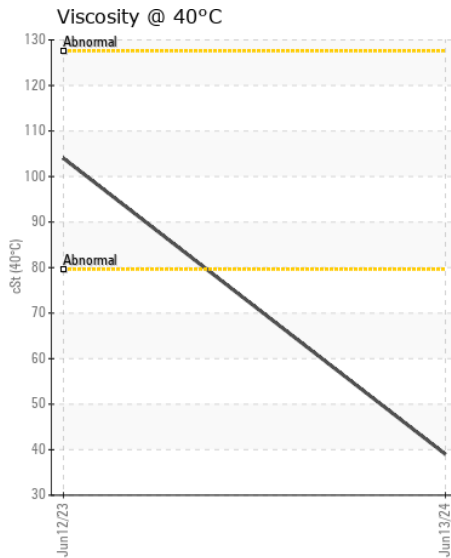
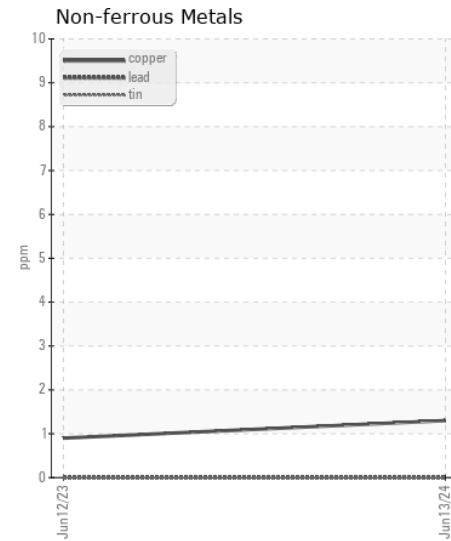
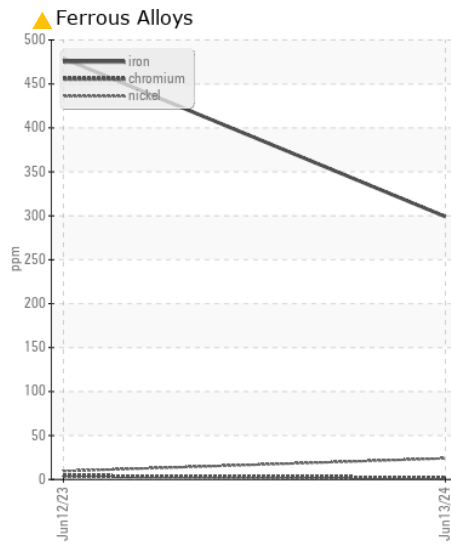
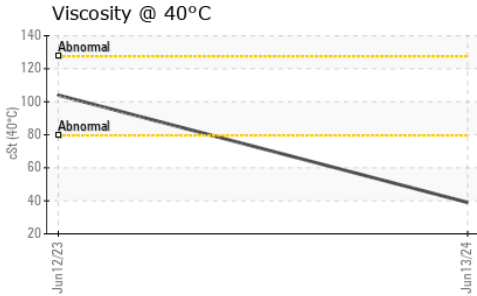
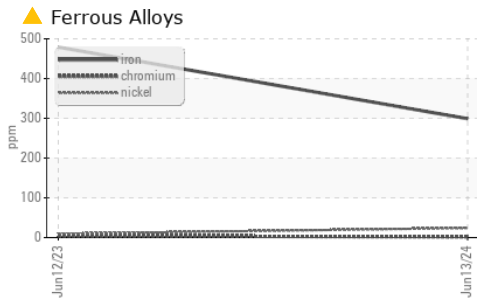
There is no indication of any contamination in the oil.

|                  |        |             |       |              |       |     |
|------------------|--------|-------------|-------|--------------|-------|-----|
| Silicon          | ppm    | ASTM D5185m | >75   | <b>48</b>    | ▲ 128 | --- |
| Potassium        | ppm    | ASTM D5185m | >20   | <b>1</b>     | 5     | --- |
| Water            |        | WC Method   | >.2   | <b>NEG</b>   | NEG   | --- |
| Silt             | scalar | *Visual     | NONE  | <b>NONE</b>  | NONE  | --- |
| Debris           | scalar | *Visual     | NONE  | <b>NONE</b>  | NONE  | --- |
| Sand/Dirt        | scalar | *Visual     | NONE  | <b>NONE</b>  | NONE  | --- |
| Appearance       | scalar | *Visual     | NORML | <b>NORML</b> | NORML | --- |
| Odor             | scalar | *Visual     | NORML | <b>NORML</b> | NORML | --- |
| Emulsified Water | scalar | *Visual     | >.2   | <b>NEG</b>   | NEG   | --- |

**FLUID CONDITION**

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

|             |     |             |  |              |       |     |
|-------------|-----|-------------|--|--------------|-------|-----|
| Sodium      | ppm | ASTM D5185m |  | <b>&lt;1</b> | 3     | --- |
| Boron       | ppm | ASTM D5185m |  | <b>26</b>    | 76    | --- |
| Barium      | ppm | ASTM D5185m |  | <b>0</b>     | 0     | --- |
| Molybdenum  | ppm | ASTM D5185m |  | <b>&lt;1</b> | <1    | --- |
| Manganese   | ppm | ASTM D5185m |  | <b>2</b>     | 8     | --- |
| Magnesium   | ppm | ASTM D5185m |  | <b>2</b>     | 4     | --- |
| Calcium     | ppm | ASTM D5185m |  | <b>65</b>    | 45    | --- |
| Phosphorus  | ppm | ASTM D5185m |  | <b>499</b>   | 737   | --- |
| Zinc        | ppm | ASTM D5185m |  | <b>119</b>   | 31    | --- |
| Sulfur      | ppm | ASTM D5185m |  | <b>10220</b> | 15377 | --- |
| Visc @ 40°C | cSt | ASTM D445   |  | <b>39.0</b>  | 104   | --- |



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : GFL0123531  
**Lab Number** : 06213911  
**Unique Number** : 11086775  
**Test Package** : FLEET

**Received** : 18 Jun 2024  
**Tested** : 20 Jun 2024  
**Diagnosed** : 20 Jun 2024 - Don Baldrige

**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: