



# OIL ANALYSIS REPORT

|                 |        |
|-----------------|--------|
| WEAR            | NORMAL |
| CONTAMINATION   | NORMAL |
| FLUID CONDITION | NORMAL |

Machine Id  
**CR1221 - OUTER**  
Component  
**Rear Right Planetary**  
Fluid  
**GEAR OIL ISO 220 (--- GAL)**

## RECOMMENDATION

Resample at the next service interval to monitor. Please specify the component make and model with your next sample. Please specify the brand, type, and viscosity of the oil on your next sample.

## WEAR

All component wear rates are normal.

## CONTAMINATION

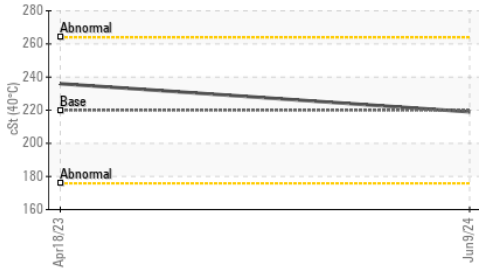
There is no indication of any contamination in the oil.

## FLUID CONDITION

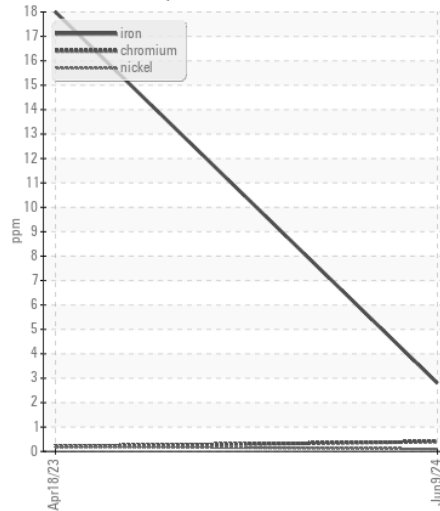
The condition of the oil is acceptable for the time in service.

| Test             | UOM    | Method      | Limit/Abn | Current     | History1    | History2 |
|------------------|--------|-------------|-----------|-------------|-------------|----------|
| Sample Number    |        | Client Info |           | WC0922217   | WC0761650   | ---      |
| Sample Date      |        | Client Info |           | 09 Jun 2024 | 18 Apr 2023 | ---      |
| Machine Age      | hrs    | Client Info |           | 3207        | 2157        | ---      |
| Oil Age          | hrs    | Client Info |           | 1000        | 0           | ---      |
| Filter Age       | hrs    | Client Info |           | 0           | 0           | ---      |
| Oil Changed      |        | Client Info |           | Changed     | Changed     | ---      |
| Filter Changed   |        | Client Info |           | N/A         | Changed     | ---      |
| Sample Status    |        |             |           | NORMAL      | NORMAL      | ---      |
| Iron             | ppm    | ASTM D5185m | >500      | 3           | 18          | ---      |
| Chromium         | ppm    | ASTM D5185m | >10       | <1          | <1          | ---      |
| Nickel           | ppm    | ASTM D5185m | >10       | <1          | <1          | ---      |
| Titanium         | ppm    | ASTM D5185m |           | <1          | 0           | ---      |
| Silver           | ppm    | ASTM D5185m |           | 0           | 0           | ---      |
| Aluminum         | ppm    | ASTM D5185m | >25       | 1           | <1          | ---      |
| Lead             | ppm    | ASTM D5185m | >25       | <1          | 0           | ---      |
| Copper           | ppm    | ASTM D5185m | >75       | <1          | 0           | ---      |
| Tin              | ppm    | ASTM D5185m | >10       | 0           | 0           | ---      |
| Vanadium         | ppm    | ASTM D5185m |           | 0           | 0           | ---      |
| White Metal      | scalar | *Visual     | NONE      | NONE        | NONE        | ---      |
| Yellow Metal     | scalar | *Visual     | NONE      | NONE        | NONE        | ---      |
| Silicon          | ppm    | ASTM D5185m | >75       | 1           | <1          | ---      |
| Potassium        | ppm    | ASTM D5185m | >20       | <1          | <1          | ---      |
| Water            |        | WC Method   | >0.2      | NEG         | NEG         | ---      |
| Silt             | scalar | *Visual     | NONE      | NONE        | NONE        | ---      |
| Debris           | scalar | *Visual     | NONE      | NONE        | NONE        | ---      |
| Sand/Dirt        | scalar | *Visual     | NONE      | NONE        | NONE        | ---      |
| Appearance       | scalar | *Visual     | NORML     | NORML       | NORML       | ---      |
| Odor             | scalar | *Visual     | NORML     | NORML       | NORML       | ---      |
| Emulsified Water | scalar | *Visual     | >0.2      | NEG         | NEG         | ---      |
| Sodium           | ppm    | ASTM D5185m |           | 0           | <1          | ---      |
| Boron            | ppm    | ASTM D5185m | 50        | 4           | 2           | ---      |
| Barium           | ppm    | ASTM D5185m | 15        | 0           | 0           | ---      |
| Molybdenum       | ppm    | ASTM D5185m | 15        | <1          | 0           | ---      |
| Manganese        | ppm    | ASTM D5185m |           | 0           | <1          | ---      |
| Magnesium        | ppm    | ASTM D5185m | 50        | <1          | 0           | ---      |
| Calcium          | ppm    | ASTM D5185m | 50        | 0           | 8           | ---      |
| Phosphorus       | ppm    | ASTM D5185m | 350       | 379         | 374         | ---      |
| Zinc             | ppm    | ASTM D5185m | 100       | 3           | 5           | ---      |
| Sulfur           | ppm    | ASTM D5185m | 12500     | 5611        | 4865        | ---      |
| Visc @ 40°C      | cSt    | ASTM D445   | 220       | 219         | 236         | ---      |

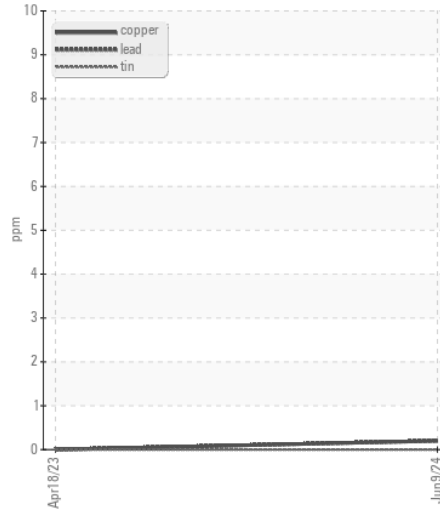
Viscosity @ 40°C



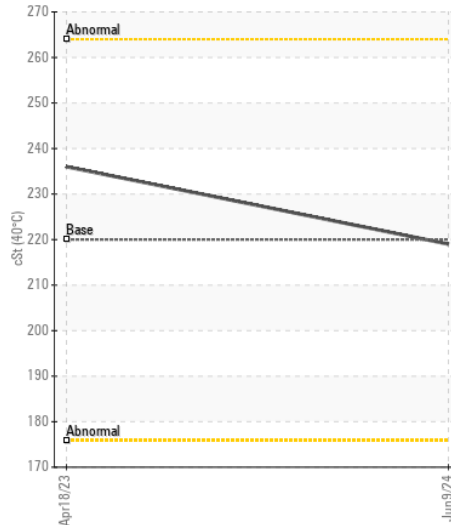
Ferrous Alloys



Non-ferrous Metals



Viscosity @ 40°C



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : WC0922217  
**Lab Number** : 06210531  
**Unique Number** : 11083395  
**Test Package** : CONST

**Received** : 14 Jun 2024  
**Tested** : 17 Jun 2024  
**Diagnosed** : 17 Jun 2024 - Wes Davis

**BUCKNER HEAVY LIFT**  
 4732 NC 54 EAST  
 GRAHAM, NC  
 US 27253-9215

Contact: MICHAEL LAWSON  
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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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