



# OIL ANALYSIS REPORT

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

Machine Id  
**CR6626 - REAR**  
Component  
**Right Outer 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.

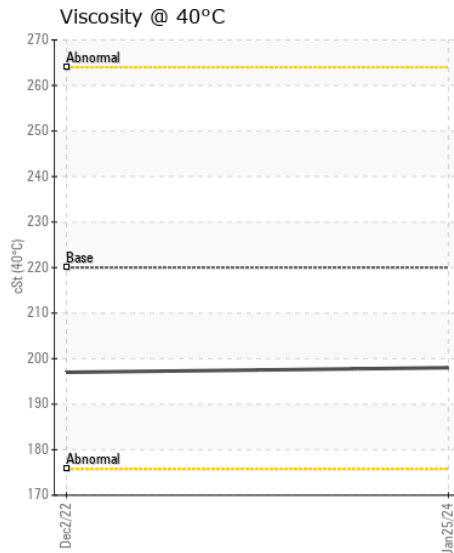
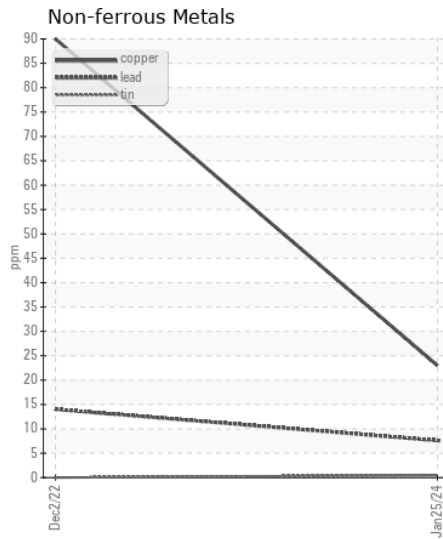
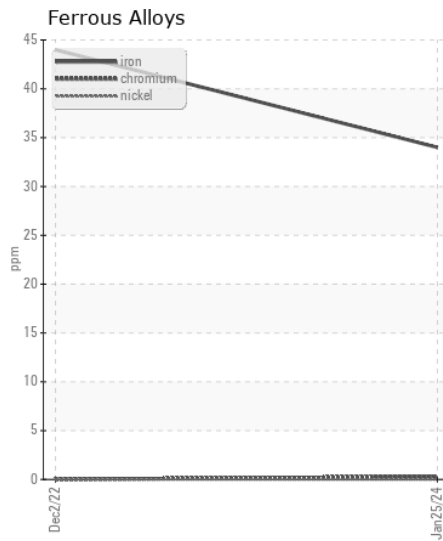
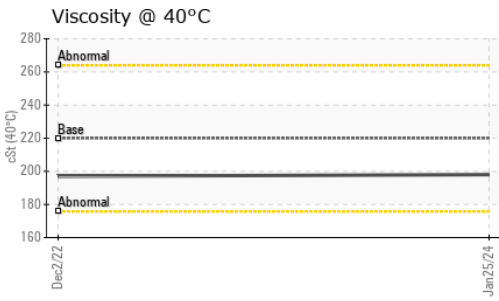
## CONTAMINATION

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 |           | <b>WC0873301</b>   | WC0720701   | ---      |
| Sample Date      |        | Client Info |           | <b>25 Jan 2024</b> | 02 Dec 2022 | ---      |
| Machine Age      | hrs    | Client Info |           | <b>11006</b>       | 10397       | ---      |
| Oil Age          | hrs    | Client Info |           | <b>0</b>           | 794         | ---      |
| Filter Age       | hrs    | Client Info |           | <b>0</b>           | 0           | ---      |
| Oil Changed      |        | Client Info |           | <b>Changed</b>     | Changed     | ---      |
| Filter Changed   |        | Client Info |           | <b>Changed</b>     | Changed     | ---      |
| Sample Status    |        |             |           | <b>NORMAL</b>      | ABNORMAL    | ---      |
| <hr/>            |        |             |           |                    |             |          |
| Iron             | ppm    | ASTM D5185m | >500      | <b>34</b>          | 44          | ---      |
| Chromium         | ppm    | ASTM D5185m | >10       | <b>&lt;1</b>       | 0           | ---      |
| Nickel           | ppm    | ASTM D5185m | >10       | <b>0</b>           | 0           | ---      |
| Titanium         | ppm    | ASTM D5185m |           | <b>&lt;1</b>       | 0           | ---      |
| Silver           | ppm    | ASTM D5185m |           | <b>0</b>           | 0           | ---      |
| Aluminum         | ppm    | ASTM D5185m | >25       | <b>2</b>           | 0           | ---      |
| Lead             | ppm    | ASTM D5185m | >25       | <b>8</b>           | 14          | ---      |
| Copper           | ppm    | ASTM D5185m | >75       | <b>23</b>          | ▲ 90        | ---      |
| Tin              | ppm    | ASTM D5185m | >10       | <b>&lt;1</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>        | ▲ HEAVY     | ---      |
| <hr/>            |        |             |           |                    |             |          |
| Silicon          | ppm    | ASTM D5185m | >75       | <b>2</b>           | 4           | ---      |
| Potassium        | ppm    | ASTM D5185m | >20       | <b>2</b>           | 5           | ---      |
| Water            |        | WC Method   | >0.2      | <b>NEG</b>         | NEG         | ---      |
| Silt             | scalar | *Visual     | NONE      | <b>NONE</b>        | ▲ HEAVY     | ---      |
| 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     | >0.2      | <b>NEG</b>         | NEG         | ---      |
| <hr/>            |        |             |           |                    |             |          |
| Sodium           | ppm    | ASTM D5185m |           | <b>0</b>           | 1           | ---      |
| Boron            | ppm    | ASTM D5185m | 50        | <b>1</b>           | 8           | ---      |
| Barium           | ppm    | ASTM D5185m | 15        | <b>0</b>           | 0           | ---      |
| Molybdenum       | ppm    | ASTM D5185m | 15        | <b>&lt;1</b>       | 0           | ---      |
| Manganese        | ppm    | ASTM D5185m |           | <b>&lt;1</b>       | 0           | ---      |
| Magnesium        | ppm    | ASTM D5185m | 50        | <b>0</b>           | 2           | ---      |
| Calcium          | ppm    | ASTM D5185m | 50        | <b>1</b>           | 2           | ---      |
| Phosphorus       | ppm    | ASTM D5185m | 350       | <b>299</b>         | 372         | ---      |
| Zinc             | ppm    | ASTM D5185m | 100       | <b>13</b>          | 102         | ---      |
| Sulfur           | ppm    | ASTM D5185m | 12500     | <b>5646</b>        | 6058        | ---      |
| Visc @ 40°C      | cSt    | ASTM D445   | 220       | <b>198</b>         | 197         | ---      |



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : WC0873301 **Received** : 30 Jan 2024  
**Lab Number** : 06074200 **Diagnosed** : 31 Jan 2024  
**Unique Number** : 10856291 **Diagnostician** : Wes Davis  
**Test Package** : CONST

**BUCKNER HEAVY LIFT**

4732 NC 54 EAST  
GRAHAM, NC  
US 27253-9215

Contact: MICHAEL LAWSON  
michaell@bucknercompanies.com

T: (336)376-8888  
F: (336)376-4090

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)