



OIL ANALYSIS REPORT

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

Machine Id
HC2231
Component
Gearbox
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

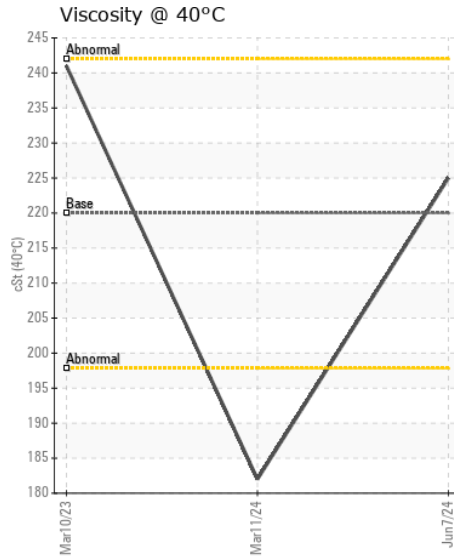
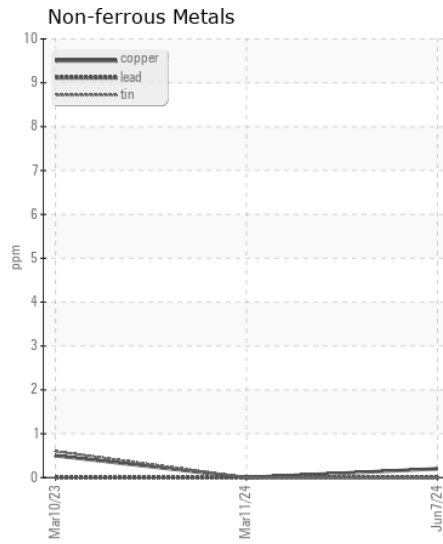
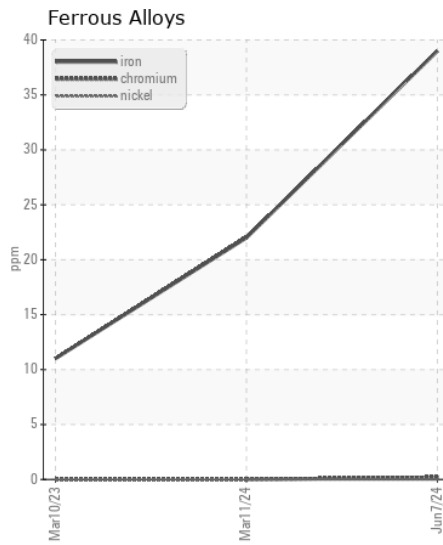
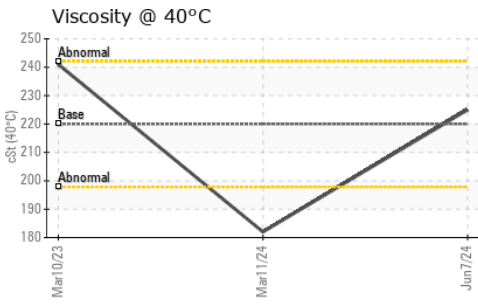
The condition of the oil is acceptable for the time in service.

| Test | UOM | Method | Limit/Abn | Current | History1 | History2 |
|----------------|-----|-------------|-----------|--------------------|-------------|-------------|
| Sample Number | | Client Info | | WC0923031 | WC0784817 | WC0761875 |
| Sample Date | | Client Info | | 07 Jun 2024 | 11 Mar 2024 | 10 Mar 2023 |
| Machine Age | hrs | Client Info | | 2972 | 2481 | 761 |
| Oil Age | hrs | Client Info | | 1000 | 1720 | 0 |
| Filter Age | hrs | Client Info | | 0 | 0 | 0 |
| Oil Changed | | Client Info | | N/A | Not Changd | Changed |
| Filter Changed | | Client Info | | N/A | Not Changd | Changed |
| Sample Status | | | | NORMAL | NORMAL | NORMAL |

| | | | | | | |
|--------------|--------|-------------|------|--------------|------|-------|
| Iron | ppm | ASTM D5185m | >200 | 39 | 22 | 11 |
| Chromium | ppm | ASTM D5185m | >10 | <1 | 0 | 0 |
| Nickel | ppm | ASTM D5185m | >10 | 0 | 0 | 0 |
| Titanium | ppm | ASTM D5185m | | <1 | 0 | <1 |
| Silver | ppm | ASTM D5185m | | 0 | 0 | 0 |
| Aluminum | ppm | ASTM D5185m | >25 | 6 | 0 | 5 |
| Lead | ppm | ASTM D5185m | >50 | 0 | 0 | 0 |
| Copper | ppm | ASTM D5185m | >200 | <1 | 0 | <1 |
| Tin | ppm | ASTM D5185m | >10 | 0 | 0 | <1 |
| Vanadium | ppm | ASTM D5185m | | <1 | 0 | 0 |
| White Metal | scalar | *Visual | NONE | NONE | NONE | MODER |
| Yellow Metal | scalar | *Visual | NONE | NONE | NONE | NONE |

| | | | | | | |
|------------------|--------|-------------|-------|--------------|-------|-------|
| Silicon | ppm | ASTM D5185m | >50 | 8 | <1 | 8 |
| Potassium | ppm | ASTM D5185m | >20 | <1 | 0 | 3 |
| Water | | WC Method | >0.2 | NEG | NEG | NEG |
| Silt | scalar | *Visual | NONE | MODER | NONE | NONE |
| Debris | scalar | *Visual | NONE | NONE | NONE | NONE |
| Sand/Dirt | scalar | *Visual | NONE | NONE | NONE | NONE |
| Appearance | scalar | *Visual | NORML | NORML | NORML | NORML |
| Odor | scalar | *Visual | NORML | NORML | NORML | NORML |
| Emulsified Water | scalar | *Visual | >0.2 | NEG | NEG | NEG |

| | | | | | | |
|-------------|-----|-------------|-------|--------------|------|------|
| Sodium | ppm | ASTM D5185m | | <1 | <1 | 2 |
| Boron | ppm | ASTM D5185m | 50 | 3 | <1 | 1 |
| Barium | ppm | ASTM D5185m | 15 | 0 | 0 | 0 |
| Molybdenum | ppm | ASTM D5185m | 15 | 0 | 0 | 0 |
| Manganese | ppm | ASTM D5185m | | 1 | 0 | <1 |
| Magnesium | ppm | ASTM D5185m | 50 | <1 | 0 | 2 |
| Calcium | ppm | ASTM D5185m | 50 | 2 | 6 | 0 |
| Phosphorus | ppm | ASTM D5185m | 350 | 292 | 353 | 49 |
| Zinc | ppm | ASTM D5185m | 100 | 50 | 52 | 0 |
| Sulfur | ppm | ASTM D5185m | 12500 | 5074 | 6302 | 2386 |
| Visc @ 40°C | cSt | ASTM D445 | 220 | 225 | 182 | 241 |



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0923031
Lab Number : 06210965
Unique Number : 11083829
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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