



OIL ANALYSIS REPORT

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

Machine Id
HC2235 - 2
Component
Rear Winch
Fluid
GEAR OIL ISO 220 (--- GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

| Test | UOM | Method | Limit/Abn | Current | History1 | History2 |
|----------------|-----|-------------|-----------|--------------------|-------------|----------|
| Sample Number | | Client Info | | WC0936096 | WC0720605 | --- |
| Sample Date | | Client Info | | 06 May 2024 | 21 Aug 2023 | --- |
| Machine Age | hrs | Client Info | | 1540 | 800 | --- |
| Oil Age | hrs | Client Info | | 1000 | 800 | --- |
| Filter Age | hrs | Client Info | | 0 | 0 | --- |
| Oil Changed | | Client Info | | Changed | Changed | --- |
| Filter Changed | | Client Info | | Changed | Changed | --- |
| Sample Status | | | | NORMAL | NORMAL | --- |

WEAR

All component wear rates are normal.

| | | | | | | |
|--------------|--------|-------------|------|--------------|------|-----|
| Iron | ppm | ASTM D5185m | >150 | 17 | 10 | --- |
| Chromium | ppm | ASTM D5185m | >10 | <1 | <1 | --- |
| Nickel | ppm | ASTM D5185m | >10 | 0 | 0 | --- |
| Titanium | ppm | ASTM D5185m | | 0 | 0 | --- |
| Silver | ppm | ASTM D5185m | | 0 | 0 | --- |
| Aluminum | ppm | ASTM D5185m | >5 | 0 | 0 | --- |
| Lead | ppm | ASTM D5185m | >15 | 0 | 0 | --- |
| Copper | ppm | ASTM D5185m | >80 | 0 | 1 | --- |
| Tin | ppm | ASTM D5185m | | <1 | <1 | --- |
| Vanadium | ppm | ASTM D5185m | | 0 | 0 | --- |
| White Metal | scalar | *Visual | NONE | NONE | NONE | --- |
| Yellow Metal | scalar | *Visual | NONE | NONE | NONE | --- |

CONTAMINATION

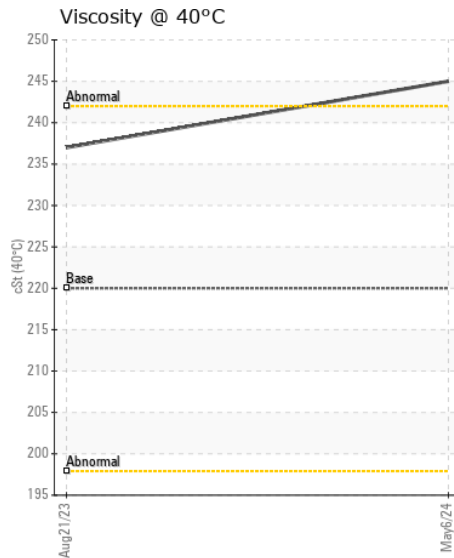
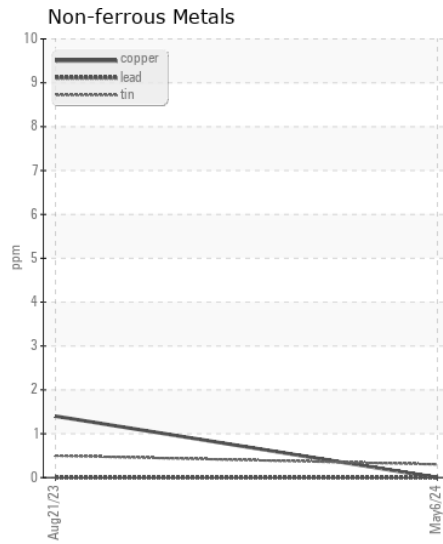
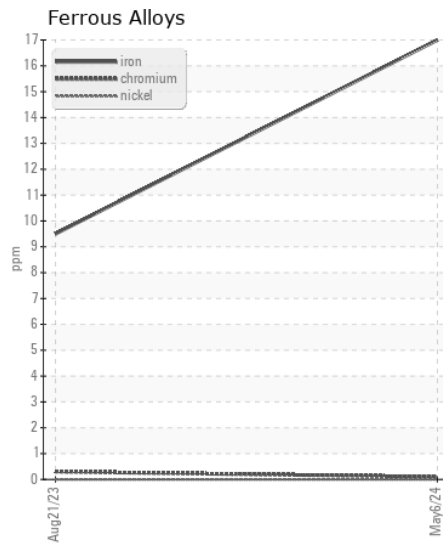
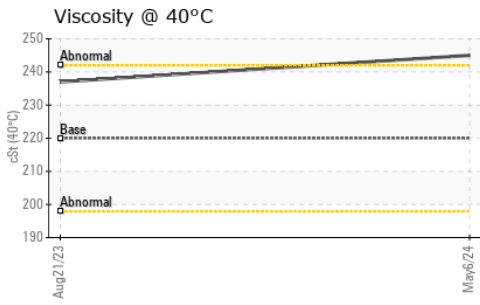
There is no indication of any contamination in the oil.

| | | | | | | |
|------------------|--------|-------------|-------|--------------|-------|-----|
| Silicon | ppm | ASTM D5185m | >25 | 2 | <1 | --- |
| Potassium | ppm | ASTM D5185m | >20 | 1 | 2 | --- |
| 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 | --- |

FLUID CONDITION

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

| | | | | | | |
|-------------|-----|-------------|-------|--------------|------|-----|
| Sodium | ppm | ASTM D5185m | | 0 | 1 | --- |
| Boron | ppm | ASTM D5185m | 50 | 0 | 5 | --- |
| Barium | ppm | ASTM D5185m | 15 | 1 | 0 | --- |
| Molybdenum | ppm | ASTM D5185m | 15 | 0 | 0 | --- |
| Manganese | ppm | ASTM D5185m | | <1 | 0 | --- |
| Magnesium | ppm | ASTM D5185m | 50 | 0 | 5 | --- |
| Calcium | ppm | ASTM D5185m | 50 | 1 | 6 | --- |
| Phosphorus | ppm | ASTM D5185m | 350 | 134 | 17 | --- |
| Zinc | ppm | ASTM D5185m | 100 | 15 | 16 | --- |
| Sulfur | ppm | ASTM D5185m | 12500 | 4535 | 1752 | --- |
| Visc @ 40°C | cSt | ASTM D445 | 220 | 245 | 237 | --- |



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0936096
Lab Number : 06174796
Unique Number : 11020849
Test Package : CONST

Received : 09 May 2024
Tested : 10 May 2024
Diagnosed : 13 May 2024 - Sean Felton

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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