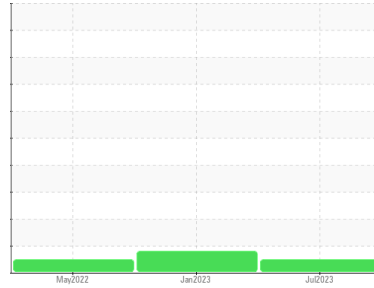




OIL ANALYSIS REPORT

Sample Rating Trend

NORMAL



Machine Id
HC2221
 Component
Rear Right Final Drive
 Fluid
GEAR OIL ISO 220 (--- GAL)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

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.

SAMPLE INFORMATION

| | method | limit/base | current | history1 | history2 |
|---------------|-------------|-------------|--------------------|-------------|-------------|
| Sample Number | Client Info | | WC0809359 | WC0761754 | WC0671367 |
| Sample Date | Client Info | | 16 Jul 2023 | 22 Jan 2023 | 07 May 2022 |
| Machine Age | hrs | Client Info | 2837 | 1958 | 980 |
| Oil Age | hrs | Client Info | 0 | 978 | 980 |
| Oil Changed | Client Info | | Changed | Changed | Changed |
| Sample Status | | | NORMAL | ATTENTION | NORMAL |

WEAR METALS

| | method | limit/base | current | history1 | history2 |
|----------|--------|------------------|--------------|----------|----------|
| Iron | ppm | ASTM D5185m >500 | 63 | 46 | 34 |
| Chromium | ppm | ASTM D5185m >10 | 1 | <1 | <1 |
| Nickel | ppm | ASTM D5185m >10 | <1 | <1 | <1 |
| Titanium | ppm | ASTM D5185m | 0 | 0 | 0 |
| Silver | ppm | ASTM D5185m | 0 | 0 | <1 |
| Aluminum | ppm | ASTM D5185m >25 | <1 | <1 | 21 |
| Lead | ppm | ASTM D5185m >25 | 0 | 0 | <1 |
| Copper | ppm | ASTM D5185m >50 | 3 | <1 | 1 |
| Tin | ppm | ASTM D5185m >10 | <1 | 0 | 1 |
| Vanadium | ppm | ASTM D5185m | 0 | 0 | 0 |
| Cadmium | ppm | ASTM D5185m | 0 | 0 | 0 |

ADDITIVES

| | method | limit/base | current | history1 | history2 |
|------------|--------|-------------------|--------------|----------|----------|
| Boron | ppm | ASTM D5185m 50 | 1 | <1 | 5 |
| Barium | ppm | ASTM D5185m 15 | 1 | 1 | 0 |
| Molybdenum | ppm | ASTM D5185m 15 | 0 | <1 | <1 |
| Manganese | ppm | ASTM D5185m | 1 | 2 | <1 |
| Magnesium | ppm | ASTM D5185m 50 | <1 | <1 | 2 |
| Calcium | ppm | ASTM D5185m 50 | 8 | 8 | 10 |
| Phosphorus | ppm | ASTM D5185m 350 | 332 | 233 | 120 |
| Zinc | ppm | ASTM D5185m 100 | 18 | 42 | 16 |
| Sulfur | ppm | ASTM D5185m 12500 | 5342 | 4199 | 2264 |

CONTAMINANTS

| | method | limit/base | current | history1 | history2 |
|-----------|--------|-----------------|----------|----------|----------|
| Silicon | ppm | ASTM D5185m >75 | 4 | 1 | 11 |
| Sodium | ppm | ASTM D5185m | 0 | 3 | 3 |
| Potassium | ppm | ASTM D5185m >20 | 2 | 3 | 3 |

VISUAL

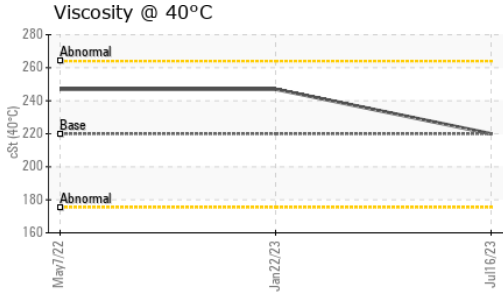
| | method | limit/base | current | history1 | history2 |
|------------------|--------|---------------|--------------|----------|----------|
| White Metal | scalar | *Visual NONE | NONE | NONE | LIGHT |
| Yellow Metal | scalar | *Visual NONE | NONE | NONE | NONE |
| Precipitate | scalar | *Visual NONE | NONE | NONE | NONE |
| Silt | scalar | *Visual NONE | NONE | NONE | NONE |
| Debris | scalar | *Visual NONE | NONE | LIGHT | NONE |
| Sand/Dirt | scalar | *Visual NONE | NONE | NONE | NONE |
| Appearance | scalar | *Visual NORML | NORML | ▲ LAYRD | NORML |
| Odor | scalar | *Visual NORML | NORML | NORML | NORML |
| Emulsified Water | scalar | *Visual >0.2 | NEG | NEG | NEG |
| Free Water | scalar | *Visual | NEG | NEG | NEG |



FLUID PROPERTIES

| | method | limit/base | current | history1 | history2 |
|-------------|--------|---------------|------------|----------|----------|
| Visc @ 40°C | cSt | ASTM D445 220 | 220 | 247 | 247 |

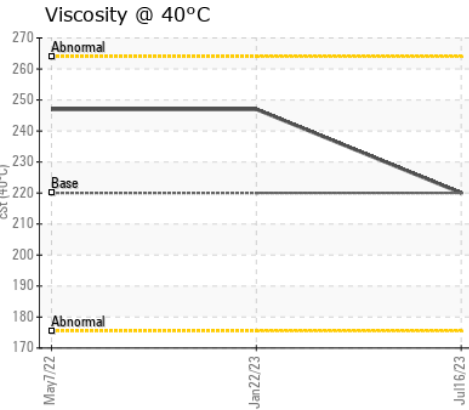
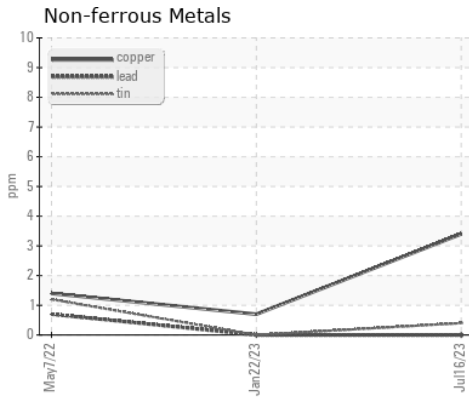
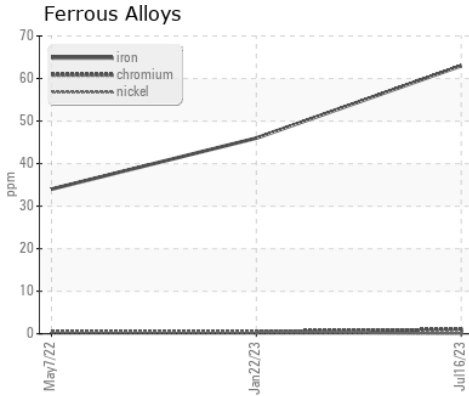


OIL ANALYSIS REPORT



| SAMPLE IMAGES | method | limit/base | current | history1 | history2 |
|---------------|--------|------------|----------|---|----------|
| Color | | | no image |  | no image |
| Bottom | | | no image |  | no image |

GRAPHS



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0809359 **Received** : 15 Aug 2023
Lab Number : 05925617 **Diagnosed** : 17 Aug 2023
Unique Number : 10605564 **Diagnostician** : Don Baldrige
Test Package : CONST

BUCKNER - WILLIS
 18123 HWY 75 NORTH
 WILLIS, TX
 US 77378

Contact: JOHN HAWKINS
 johnh@bucknercompanies.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: