



OIL ANALYSIS REPORT

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

Machine Id
HC2209
 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

The water content is negligible. There is no indication of any contamination in the oil.

FLUID CONDITION

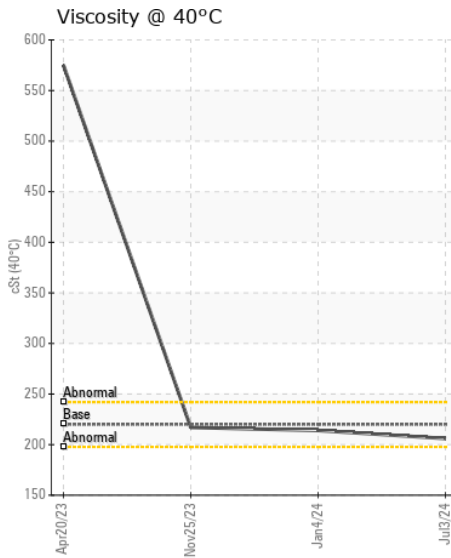
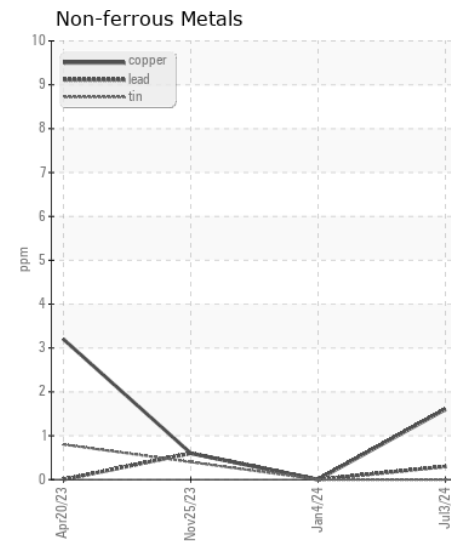
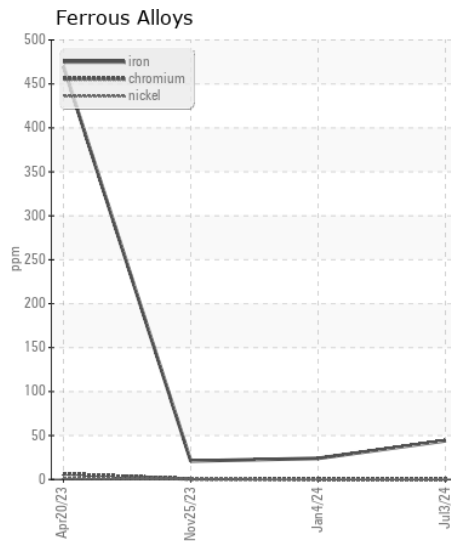
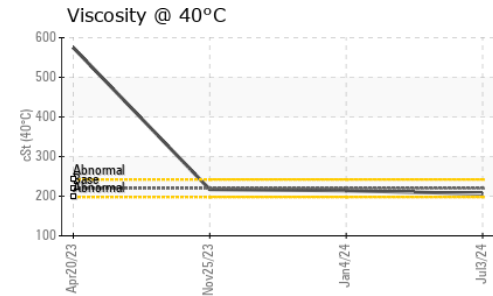
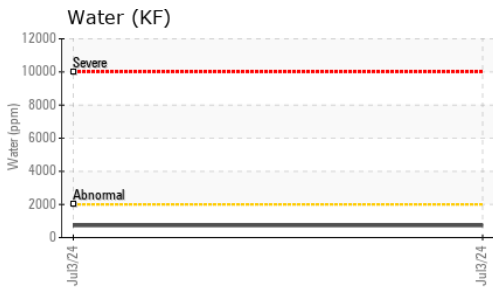
The condition of the oil is acceptable for the time in service.

| Test | UOM | Method | Limit/Abn | Current | History1 | History2 |
|----------------|-----|-------------|-----------|--------------------|-------------|-------------|
| Sample Number | | Client Info | | WC0951920 | WC0867434 | WC0823494 |
| Sample Date | | Client Info | | 03 Jul 2024 | 04 Jan 2024 | 25 Nov 2023 |
| Machine Age | hrs | Client Info | | 10485 | 0 | 9513 |
| Oil Age | hrs | Client Info | | 1000 | 0 | 521 |
| Filter Age | hrs | Client Info | | 0 | 0 | 0 |
| Oil Changed | | Client Info | | Changed | Not Changd | Not Changd |
| Filter Changed | | Client Info | | N/A | Not Changd | Not Changd |
| Sample Status | | | | NORMAL | NORMAL | ABNORMAL |

| | | | | | | |
|--------------|--------|-------------|------|--------------|------|------|
| Iron | ppm | ASTM D5185m | >200 | 44 | 24 | 21 |
| Chromium | ppm | ASTM D5185m | >10 | 0 | 0 | <1 |
| Nickel | ppm | ASTM D5185m | >10 | 0 | 0 | <1 |
| Titanium | ppm | ASTM D5185m | | 0 | 0 | <1 |
| Silver | ppm | ASTM D5185m | | 0 | 0 | 0 |
| Aluminum | ppm | ASTM D5185m | >25 | 7 | 3 | 3 |
| Lead | ppm | ASTM D5185m | >50 | <1 | 0 | <1 |
| Copper | ppm | ASTM D5185m | >200 | 2 | 0 | <1 |
| Tin | ppm | ASTM D5185m | >10 | 0 | 0 | <1 |
| Vanadium | ppm | ASTM D5185m | | 0 | 0 | 0 |
| White Metal | scalar | *Visual | NONE | NONE | NONE | NONE |
| Yellow Metal | scalar | *Visual | NONE | NONE | NONE | NONE |

| | | | | | | |
|------------------|--------|-------------|-------|--------------|-------|---------|
| Silicon | ppm | ASTM D5185m | >50 | 6 | 7 | 5 |
| Potassium | ppm | ASTM D5185m | >20 | 2 | 1 | 2 |
| Water | % | ASTM D6304 | >0.2 | 0.073 | --- | --- |
| ppm Water | ppm | ASTM D6304 | >2000 | 730 | --- | --- |
| Silt | scalar | *Visual | NONE | MODER | MODER | NONE |
| Debris | scalar | *Visual | NONE | NONE | NONE | ▲ MODER |
| 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 | 0.2% | NEG | NEG |

| | | | | | | |
|-------------|-----|-------------|-------|--------------|------|------|
| Sodium | ppm | ASTM D5185m | | 1 | 0 | 0 |
| Boron | ppm | ASTM D5185m | 50 | <1 | 3 | 6 |
| Barium | ppm | ASTM D5185m | 15 | 0 | 0 | 8 |
| Molybdenum | ppm | ASTM D5185m | 15 | 0 | 0 | <1 |
| Manganese | ppm | ASTM D5185m | | <1 | <1 | <1 |
| Magnesium | ppm | ASTM D5185m | 50 | <1 | 0 | 1 |
| Calcium | ppm | ASTM D5185m | 50 | 11 | 6 | 7 |
| Phosphorus | ppm | ASTM D5185m | 350 | 322 | 312 | 275 |
| Zinc | ppm | ASTM D5185m | 100 | 42 | 26 | 20 |
| Sulfur | ppm | ASTM D5185m | 12500 | 6395 | 5444 | 7130 |
| Visc @ 40°C | cSt | ASTM D445 | 220 | 206 | 214 | 217 |



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0951920 **Received** : 09 Jul 2024
Lab Number : 06231786 **Tested** : 11 Jul 2024
Unique Number : 11115279 **Diagnosed** : 11 Jul 2024 - Wes Davis
Test Package : CONST (Additional Tests: KF)

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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