



OIL ANALYSIS REPORT

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

Machine Id
SERVICIOS / EXTRACTION
 Component
Hydraulic System
 Fluid
ANDEROL BIO GUARD FRHF 46 (--- GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

| Test | UOM | Method | Limit/Abn | Current | History1 | History2 |
|----------------|-----|-------------|-----------|--------------------|-------------|-------------|
| Sample Number | | Client Info | | AN06194632 | AN06151125 | AN06151113 |
| Sample Date | | Client Info | | 12 Mar 2024 | 12 Mar 2024 | 23 Feb 2024 |
| Machine Age | hrs | Client Info | | 0 | 0 | 0 |
| Oil Age | hrs | Client Info | | 0 | 0 | 0 |
| Filter Age | hrs | Client Info | | 0 | 0 | 0 |
| Oil Changed | | Client Info | | N/A | N/A | N/A |
| Filter Changed | | Client Info | | N/A | N/A | N/A |
| Sample Status | | | | NORMAL | NORMAL | NORMAL |

WEAR

All component wear rates are normal.

| | | | | | | |
|--------------|--------|-------------|------|--------------|------|------|
| Iron | ppm | ASTM D5185m | >20 | 6 | 0 | 0 |
| Chromium | ppm | ASTM D5185m | >20 | 1 | 0 | 0 |
| Nickel | ppm | ASTM D5185m | >20 | <1 | <1 | <1 |
| Titanium | ppm | ASTM D5185m | | <1 | 0 | 0 |
| Silver | ppm | ASTM D5185m | | 1 | 0 | 0 |
| Aluminum | ppm | ASTM D5185m | >20 | 10 | <1 | <1 |
| Lead | ppm | ASTM D5185m | >20 | <1 | 0 | 0 |
| Copper | ppm | ASTM D5185m | >20 | 1 | 2 | 2 |
| Tin | ppm | ASTM D5185m | >20 | <1 | <1 | <1 |
| Vanadium | ppm | ASTM D5185m | | 1 | 0 | 0 |
| White Metal | scalar | *Visual | NONE | NONE | NONE | NONE |
| Yellow Metal | scalar | *Visual | NONE | NONE | NONE | NONE |

CONTAMINATION

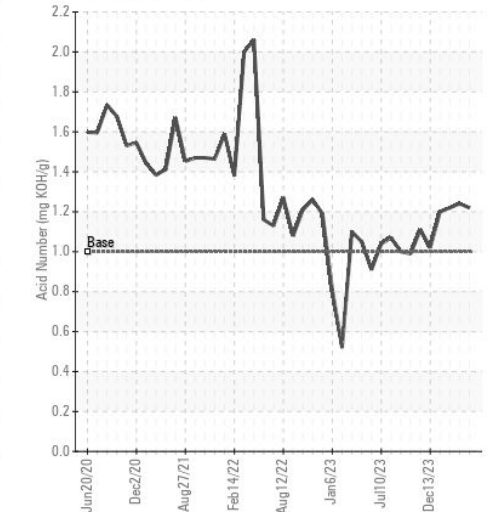
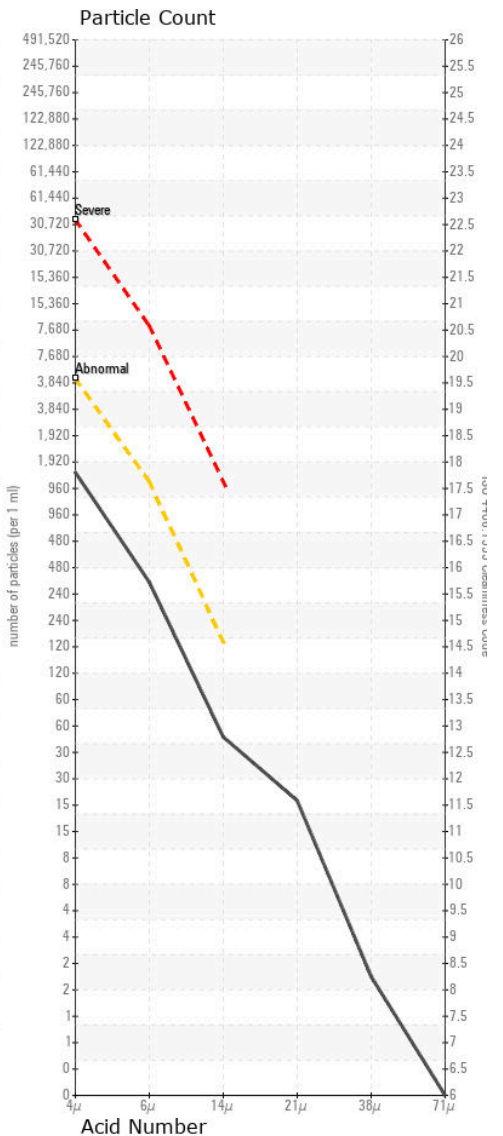
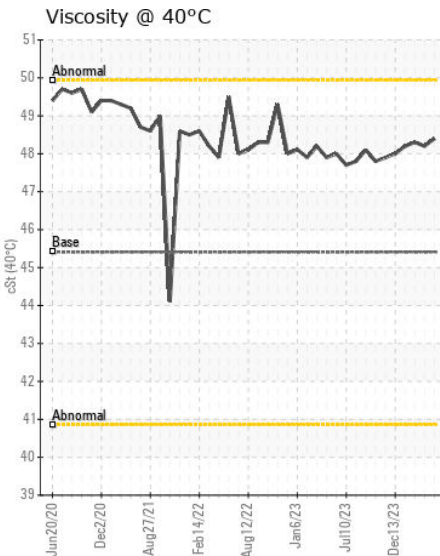
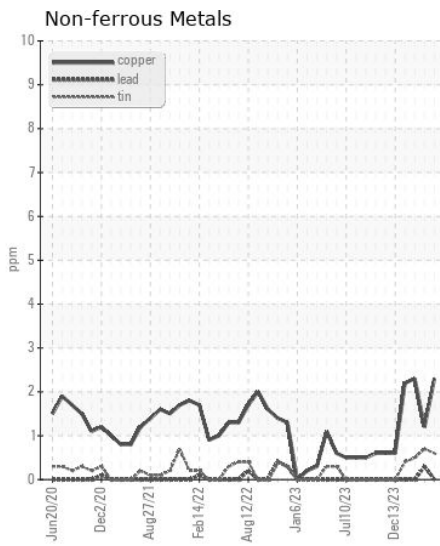
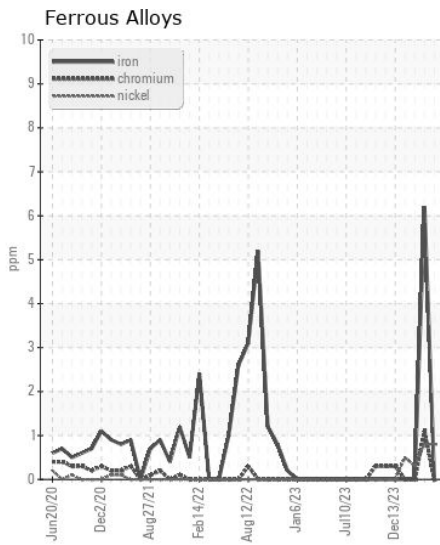
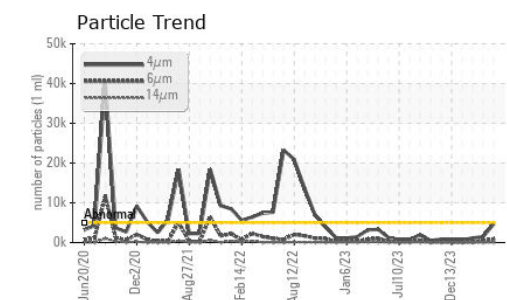
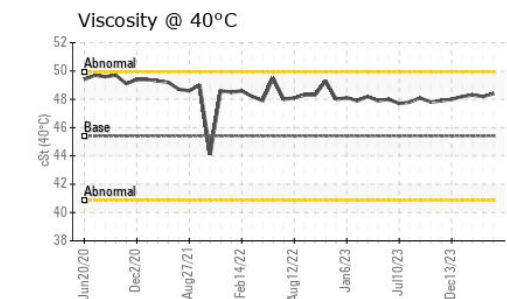
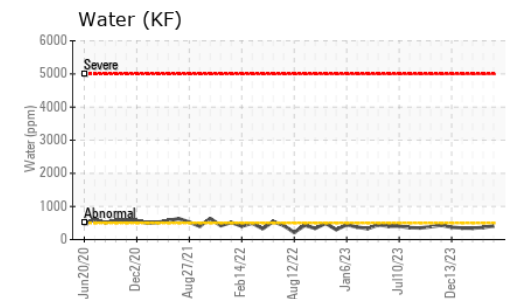
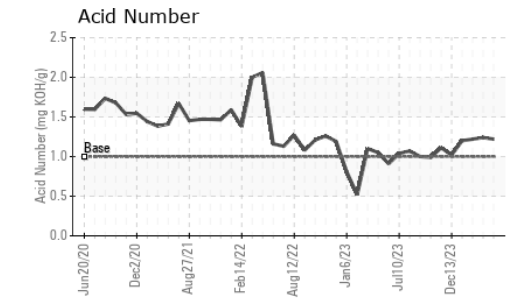
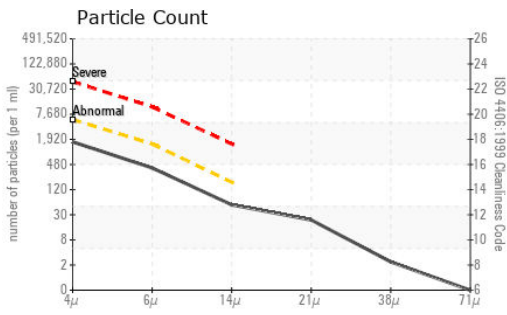
There is no indication of any contamination in the oil. The amount and size of particulates present in the system are acceptable.

| | | | | | | |
|------------------|--------|--------------|-----------|-----------------|----------|----------|
| Silicon | ppm | ASTM D5185m | >15 | 3 | 0 | 0 |
| Potassium | ppm | ASTM D5185m | >20 | 7 | 3 | 2 |
| Water | % | ASTM D6304 | >0.05 | 0.041 | 0.036 | 0.034 |
| ppm Water | ppm | ASTM D6304 | >500 | 411 | 365 | 344 |
| Particles >4µm | | ASTM D7647 | >5000 | 1467 | 4670 | 1152 |
| Particles >6µm | | ASTM D7647 | >1300 | 349 | 949 | 207 |
| Particles >14µm | | ASTM D7647 | >160 | 46 | 58 | 16 |
| Particles >21µm | | ASTM D7647 | >40 | 20 | 14 | 4 |
| Particles >38µm | | ASTM D7647 | >10 | 2 | 0 | 1 |
| Particles >71µm | | ASTM D7647 | >3 | 0 | 0 | 1 |
| Oil Cleanliness | | ISO 4406 (c) | >19/17/14 | 18/16/13 | 19/17/13 | 17/15/11 |
| Silt | scalar | *Visual | NONE | NONE | 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 | >0.05 | NEG | NEG | NEG |

FLUID CONDITION

The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

| | | | | | | |
|------------------|----------|-------------|-------|--------------|------|------|
| Sodium | ppm | ASTM D5185m | | 29 | 2 | 2 |
| Boron | ppm | ASTM D5185m | | 1 | 0 | 0 |
| Barium | ppm | ASTM D5185m | | 0 | 0 | 0 |
| Molybdenum | ppm | ASTM D5185m | | <1 | 0 | 0 |
| Manganese | ppm | ASTM D5185m | | <1 | 1 | 1 |
| Magnesium | ppm | ASTM D5185m | | 2 | 2 | 1 |
| Calcium | ppm | ASTM D5185m | | 0 | 1 | 1 |
| Phosphorus | ppm | ASTM D5185m | 196 | 396 | 217 | 209 |
| Zinc | ppm | ASTM D5185m | | <1 | 0 | 0 |
| Sulfur | ppm | ASTM D5185m | 1440 | 265 | 2344 | 2199 |
| Acid Number (AN) | mg KOH/g | ASTM D8045 | 1 | 1.22 | 1.24 | 1.22 |
| Visc @ 40°C | cSt | ASTM D445 | 45.41 | 48.4 | 48.2 | 48.3 |



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : AN06194632 **Received** : 29 May 2024
Lab Number : 06194632 **Tested** : 31 May 2024
Unique Number : 11056755 **Diagnosed** : 31 May 2024 - Jonathan Hester
Test Package : IND 2 (Additional Tests: PrtCount)

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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