



OIL ANALYSIS REPORT

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

Area
Contracting

Machine Id
7209 7209

Component
Transmission (Auto)

Fluid
MOBIL MOBILFLUID 424 (--- GAL)

RECOMMENDATION

No corrective action is recommended at this time. The filter change at the time of sampling has been noted. Resample at the next service interval to monitor.

| Test | UOM | Method | Limit/Abn | Current | History1 | History2 |
|----------------|-----|-------------|-----------|--------------------|-------------|-------------|
| Sample Number | | Client Info | | WC0939399 | WC0765042 | WC0726450 |
| Sample Date | | Client Info | | 16 May 2024 | 31 Jan 2023 | 08 Aug 2022 |
| Machine Age | hrs | Client Info | | 6387 | 5348 | 4704 |
| Oil Age | hrs | Client Info | | 499 | 748 | 2295 |
| Filter Age | hrs | Client Info | | 499 | 748 | 2295 |
| Oil Changed | | Client Info | | Not Changed | Changed | Changed |
| Filter Changed | | Client Info | | Changed | Changed | Changed |
| Sample Status | | | | ABNORMAL | ABNORMAL | ATTENTION |

WEAR

All component wear rates are normal.

| | | | | | | |
|--------------|--------|-------------|------|-------------|------|------|
| Iron | ppm | ASTM D5185m | >160 | 20 | 21 | 29 |
| Chromium | ppm | ASTM D5185m | >5 | 0 | <1 | <1 |
| Nickel | ppm | ASTM D5185m | >5 | 0 | 0 | 0 |
| Titanium | ppm | ASTM D5185m | | 0 | 0 | 0 |
| Silver | ppm | ASTM D5185m | >5 | 0 | 0 | 0 |
| Aluminum | ppm | ASTM D5185m | >50 | 2 | 1 | 1 |
| Lead | ppm | ASTM D5185m | >50 | 1 | 2 | 2 |
| Copper | ppm | ASTM D5185m | >225 | 8 | 14 | 18 |
| Tin | ppm | ASTM D5185m | >10 | 1 | 1 | 2 |
| Vanadium | ppm | ASTM D5185m | | 0 | 0 | 0 |
| White Metal | scalar | *Visual | NONE | NONE | NONE | NONE |
| Yellow Metal | scalar | *Visual | NONE | NONE | NONE | NONE |

CONTAMINATION

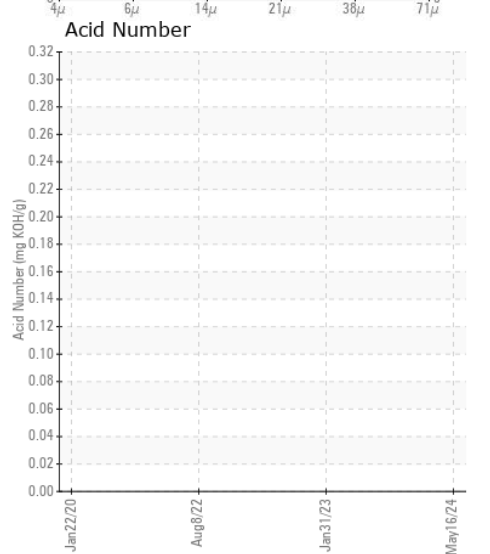
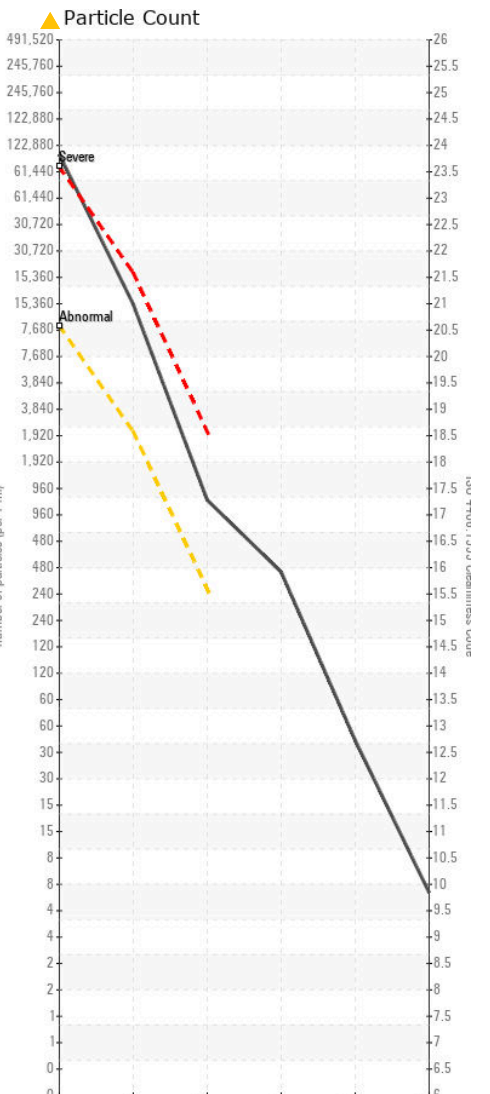
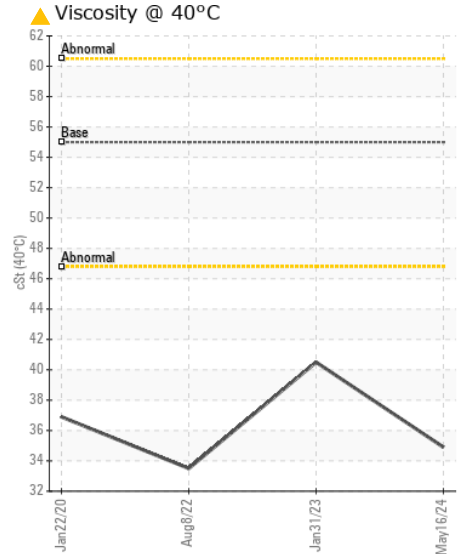
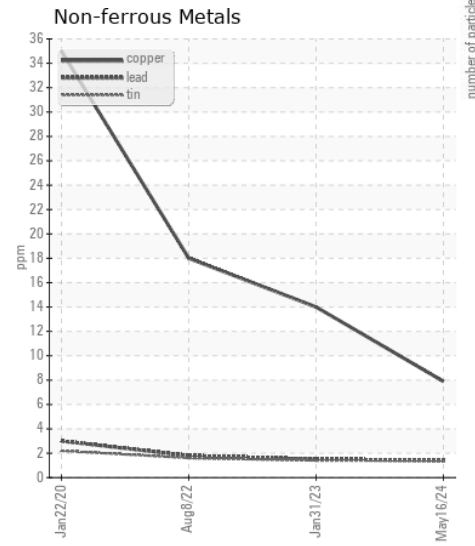
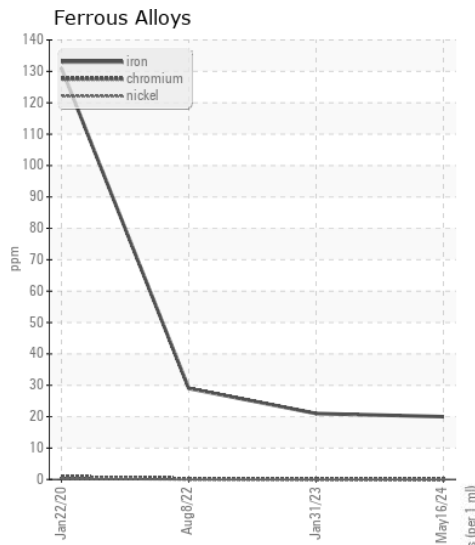
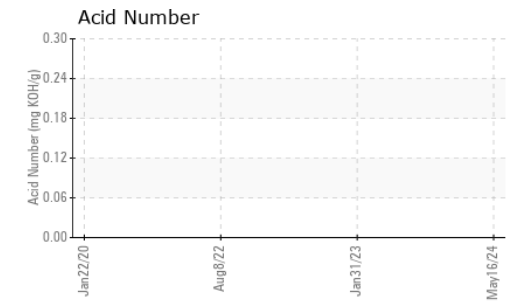
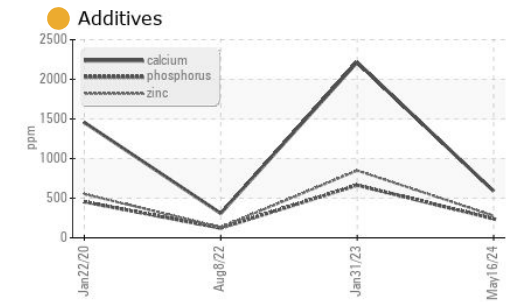
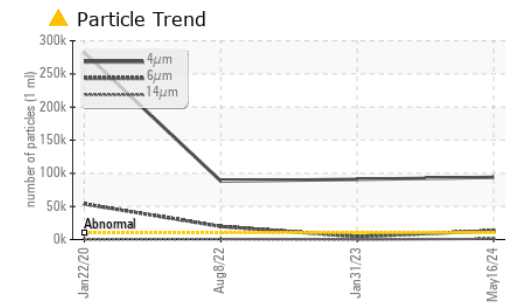
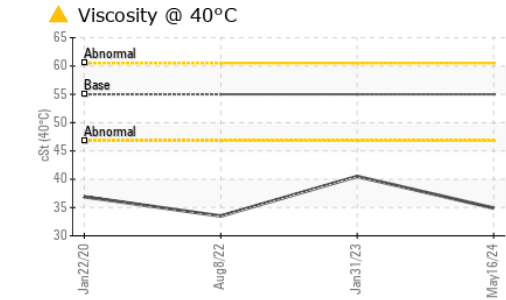
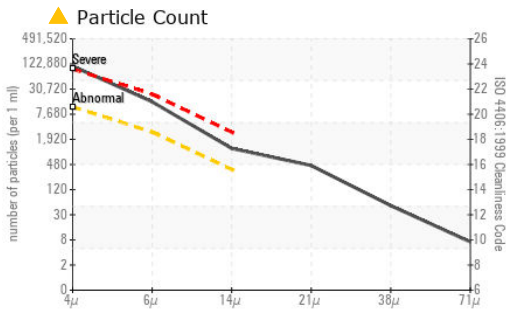
There is a high amount of particulates present in the fluid.

| | | | | | | |
|------------------|--------|--------------|-----------|-------------------|------------|----------|
| Silicon | ppm | ASTM D5185m | >20 | 3 | 7 | 1 |
| Potassium | ppm | ASTM D5185m | >20 | 0 | 0 | 3 |
| Water | | WC Method | >0.1 | NEG | NEG | NEG |
| Particles >4µm | | ASTM D7647 | >10000 | ▲ 93961 | ▲ 90913 | 88374 |
| Particles >6µm | | ASTM D7647 | >2500 | ▲ 13223 | ● 4674 | 19746 |
| Particles >14µm | | ASTM D7647 | >320 | ▲ 1021 | 12 | 485 |
| Particles >21µm | | ASTM D7647 | >80 | ▲ 398 | 5 | 46 |
| Particles >38µm | | ASTM D7647 | >20 | ▲ 44 | 3 | 1 |
| Particles >71µm | | ASTM D7647 | >4 | ▲ 6 | 2 | 0 |
| Oil Cleanliness | | ISO 4406 (c) | >20/18/15 | ▲ 24/21/17 | ▲ 24/19/11 | 24/21/16 |
| 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 | >0.1 | NEG | NEG | NEG |

FLUID CONDITION

The fluid viscosity is lower than normal. This plus the additive levels indicates the addition of a different brand, or type of oil. Confirm oil type. The AN level is acceptable for this fluid.

| | | | | | | |
|------------------|----------|-------------|----|---------------|------|-------|
| Sodium | ppm | ASTM D5185m | | 1 | <1 | <1 |
| Boron | ppm | ASTM D5185m | | ● 23 | 77 | ● 19 |
| Barium | ppm | ASTM D5185m | | 0 | 0 | 0 |
| Molybdenum | ppm | ASTM D5185m | | 4 | 6 | <1 |
| Manganese | ppm | ASTM D5185m | | <1 | <1 | <1 |
| Magnesium | ppm | ASTM D5185m | | 26 | 36 | 9 |
| Calcium | ppm | ASTM D5185m | | ● 589 | 2215 | ● 308 |
| Phosphorus | ppm | ASTM D5185m | | ● 239 | 664 | ● 122 |
| Zinc | ppm | ASTM D5185m | | ● 278 | 849 | ● 133 |
| Sulfur | ppm | ASTM D5185m | | ● 1891 | 4007 | ● 701 |
| Acid Number (AN) | mg KOH/g | ASTM D8045 | | 0.30 | --- | --- |
| Visc @ 40°C | cSt | ASTM D445 | 55 | ▲ 34.9 | 40.5 | 33.5 |



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0939399 **Received** : 21 May 2024
Lab Number : 06186008 **Tested** : 23 May 2024
Unique Number : 11042760 **Diagnosed** : 23 May 2024 - Don Baldrige
Test Package : CONST (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)

CAROLINA SUNROCK
 PO BOX 25
 BUTNER, NC
 US 27509

Contact: Leigh Dennis
 rdennis@thesunrockgroup.com
 T: (919)575-4505
 F: (919)575-0162