



OIL ANALYSIS REPORT

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



Area
Mobile Fleet
Machine Id
5106 5106
Component
Rear Differential
Fluid
MOBIL MOBILFLUID 424 (5 GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

| Test | UOM | Method | Limit/Abn | Current | History1 | History2 |
|----------------|-----|-------------|-----------|--------------------|-------------|-------------|
| Sample Number | | Client Info | | WC0947857 | WC0902895 | WC0852399 |
| Sample Date | | Client Info | | 10 Jul 2024 | 05 Mar 2024 | 01 Sep 2023 |
| Machine Age | hrs | Client Info | | 11283 | 10804 | 10302 |
| Oil Age | hrs | Client Info | | 1499 | 1020 | 518 |
| Filter Age | hrs | Client Info | | 1499 | 1020 | 518 |
| Oil Changed | | Client Info | | Not Changd | Not Changd | Not Changd |
| Filter Changed | | Client Info | | Not Changd | Changed | Not Changd |
| Sample Status | | | | NORMAL | ABNORMAL | NORMAL |

WEAR

All component wear rates are normal.

| | | | | | | |
|--------------|--------|-------------|------|-------------|------|------|
| Iron | ppm | ASTM D5185m | >500 | 26 | 24 | 22 |
| Chromium | ppm | ASTM D5185m | >10 | 0 | 0 | 0 |
| Nickel | ppm | ASTM D5185m | >10 | 0 | 0 | 0 |
| Titanium | ppm | ASTM D5185m | | 0 | <1 | <1 |
| Silver | ppm | ASTM D5185m | | 0 | 0 | 0 |
| Aluminum | ppm | ASTM D5185m | >25 | 1 | 1 | 1 |
| Lead | ppm | ASTM D5185m | >25 | 1 | 0 | <1 |
| Copper | ppm | ASTM D5185m | >100 | 8 | 6 | 4 |
| Tin | ppm | ASTM D5185m | >10 | 0 | 0 | 0 |
| Vanadium | ppm | ASTM D5185m | | 0 | 0 | <1 |
| White Metal | scalar | *Visual | NONE | NONE | NONE | NONE |
| Yellow Metal | scalar | *Visual | NONE | NONE | NONE | NONE |

CONTAMINATION

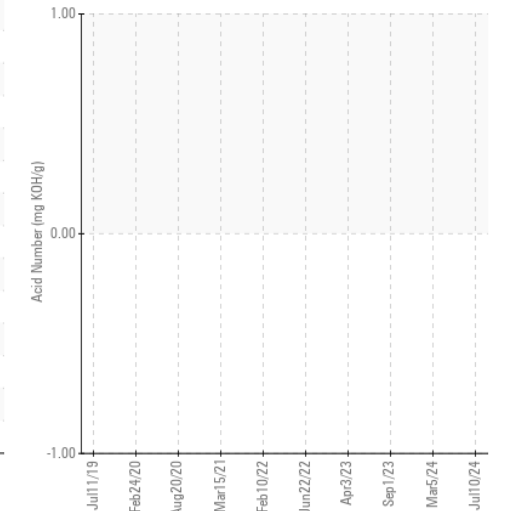
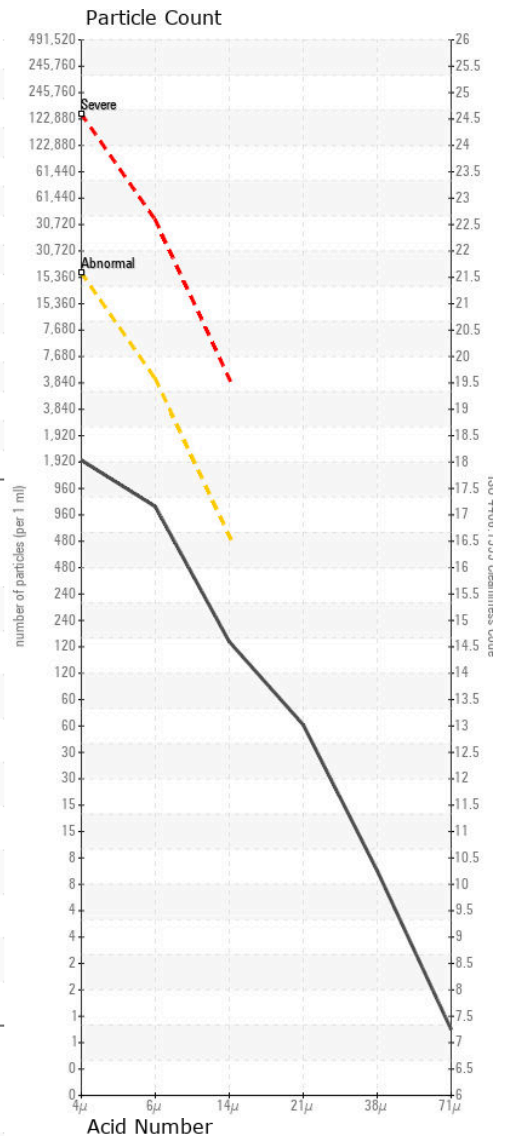
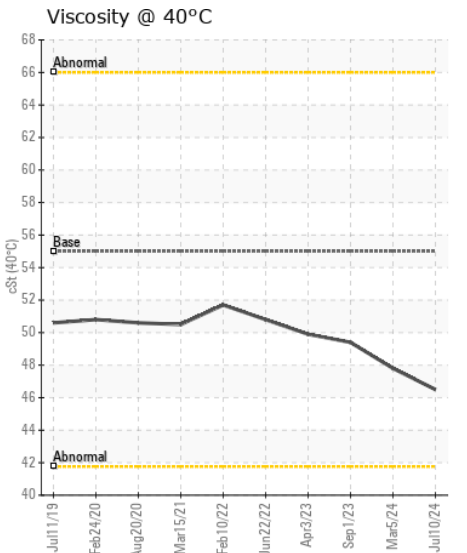
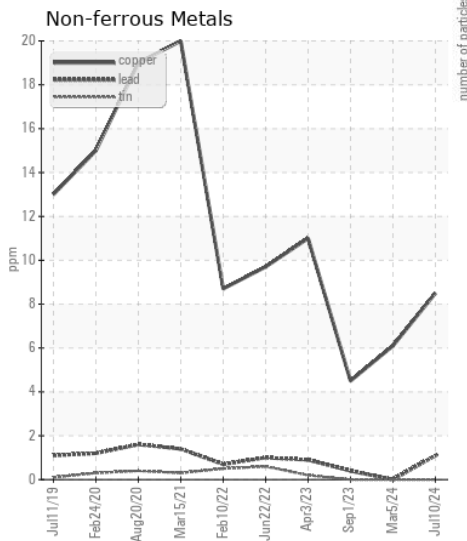
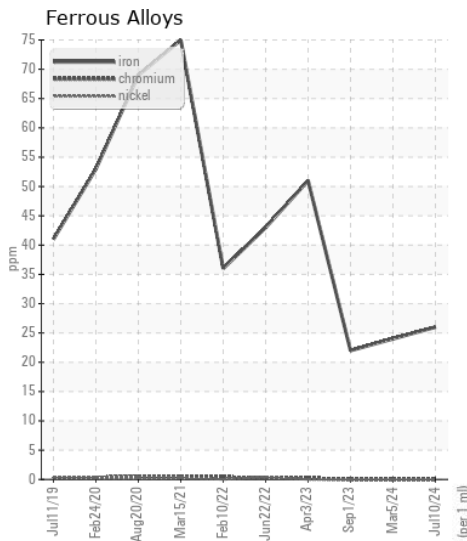
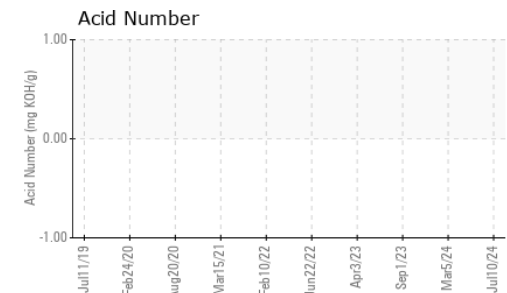
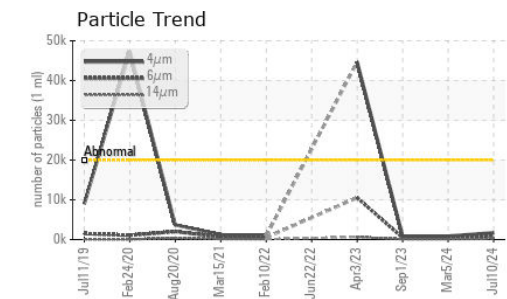
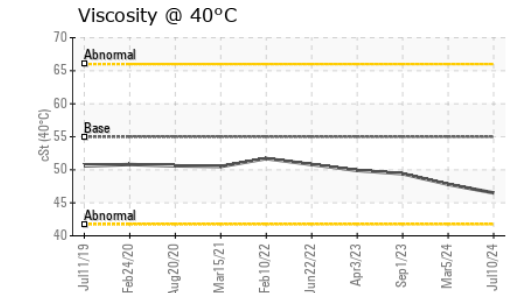
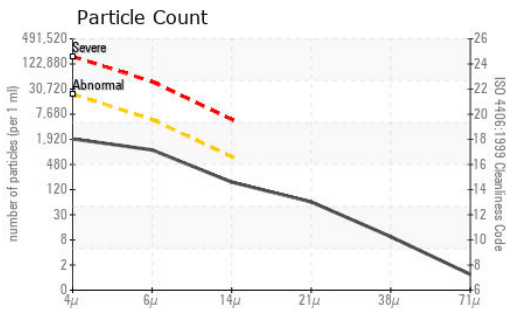
There is no indication of any contamination in the oil. The amount and size of particulates present in the system are acceptable.

| | | | | | | |
|------------------|--------|--------------|-----------|-----------------|----------|----------|
| Silicon | ppm | ASTM D5185m | >75 | 9 | 8 | 9 |
| Potassium | ppm | ASTM D5185m | >20 | <1 | 0 | 0 |
| Water | | WC Method | >.2 | NEG | NEG | NEG |
| Particles >4µm | | ASTM D7647 | >20000 | 1722 | 879 | 844 |
| Particles >6µm | | ASTM D7647 | >5000 | 938 | 479 | 460 |
| Particles >14µm | | ASTM D7647 | >640 | 160 | 81 | 78 |
| Particles >21µm | | ASTM D7647 | >160 | 54 | 27 | 26 |
| Particles >38µm | | ASTM D7647 | >40 | 8 | 4 | 4 |
| Particles >71µm | | ASTM D7647 | >10 | 1 | 0 | 0 |
| Oil Cleanliness | | ISO 4406 (c) | >21/19/16 | 18/17/14 | 17/16/14 | 17/16/13 |
| 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 | NORML | NORML |
| Odor | scalar | *Visual | NORML | NORML | NORML | NORML |
| Emulsified Water | scalar | *Visual | >.2 | NEG | 0.2% | NEG |

FLUID CONDITION

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

| | | | | | | |
|-------------|-----|-------------|----|--------------|------|------|
| Sodium | ppm | ASTM D5185m | | 5 | <1 | 4 |
| Boron | ppm | ASTM D5185m | | 99 | 131 | 128 |
| Barium | ppm | ASTM D5185m | | 0 | 0 | 0 |
| Molybdenum | ppm | ASTM D5185m | | 9 | 8 | 9 |
| Manganese | ppm | ASTM D5185m | | <1 | <1 | <1 |
| Magnesium | ppm | ASTM D5185m | | 58 | 59 | 56 |
| Calcium | ppm | ASTM D5185m | | 3467 | 3300 | 3451 |
| Phosphorus | ppm | ASTM D5185m | | 1114 | 1095 | 1059 |
| Zinc | ppm | ASTM D5185m | | 1332 | 1344 | 1350 |
| Sulfur | ppm | ASTM D5185m | | 7541 | 6387 | 7901 |
| Visc @ 40°C | cSt | ASTM D445 | 55 | 46.5 | 47.8 | 49.4 |



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0947857 **Received** : 12 Jul 2024
Lab Number : 06234756 **Tested** : 15 Jul 2024
Unique Number : 11123590 **Diagnosed** : 15 Jul 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