



OIL ANALYSIS REPORT

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

Area
Contracting
Machine Id
4214 4214
Component
Hydraulic System
Fluid
MOBIL 10W (20 GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

| Test | UOM | Method | Limit/Abn | Current | History1 | History2 |
|----------------|-----|-------------|-----------|--------------------|-------------|-------------|
| Sample Number | | Client Info | | WC0902801 | WC0808803 | WC0740705 |
| Sample Date | | Client Info | | 20 Feb 2024 | 13 Jul 2023 | 15 Sep 2022 |
| Machine Age | hrs | Client Info | | 4317 | 4136 | 3848 |
| Oil Age | hrs | Client Info | | 1869 | 1688 | 1400 |
| Filter Age | hrs | Client Info | | 1869 | 1688 | 1400 |
| Oil Changed | | Client Info | | Not Changd | Not Changd | Changed |
| Filter Changed | | Client Info | | Not Changd | Not Changd | Changed |
| Sample Status | | | | NORMAL | NORMAL | NORMAL |

WEAR

All component wear rates are normal.

| | | | | | | |
|--------------|--------|-------------|------|--------------|------|------|
| Iron | ppm | ASTM D5185m | >20 | 6 | 5 | 14 |
| Chromium | ppm | ASTM D5185m | >10 | <1 | 0 | 0 |
| Nickel | ppm | ASTM D5185m | >10 | 0 | 0 | 0 |
| Titanium | ppm | ASTM D5185m | | 0 | 0 | 0 |
| Silver | ppm | ASTM D5185m | | 0 | 0 | 0 |
| Aluminum | ppm | ASTM D5185m | >10 | <1 | <1 | 2 |
| Lead | ppm | ASTM D5185m | >10 | 0 | 0 | 1 |
| Copper | ppm | ASTM D5185m | >75 | 6 | 4 | 12 |
| Tin | ppm | ASTM D5185m | >10 | 0 | 0 | 0 |
| Vanadium | ppm | ASTM D5185m | | 0 | 0 | 0 |
| White Metal | scalar | *Visual | NONE | NONE | NONE | NONE |
| Yellow Metal | scalar | *Visual | NONE | NONE | NONE | NONE |

CONTAMINATION

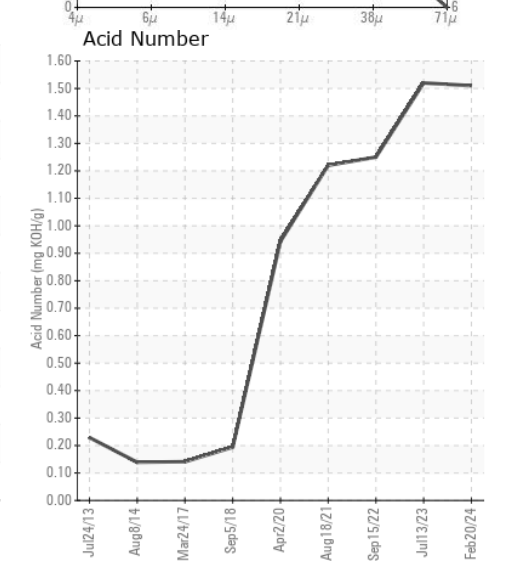
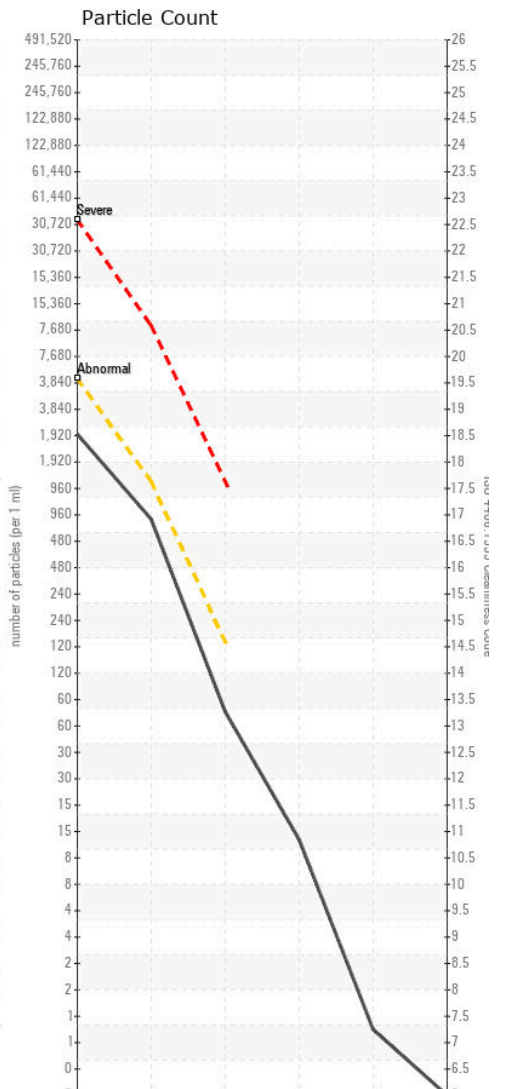
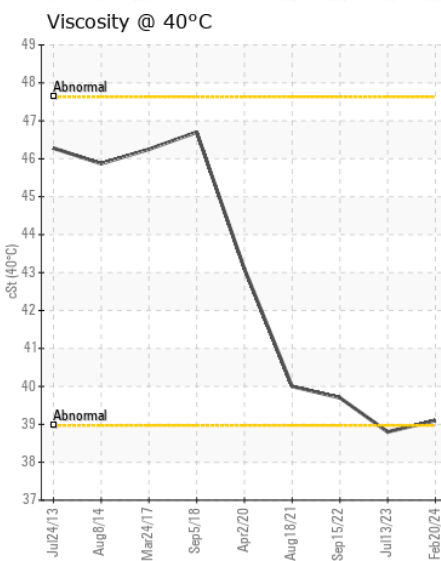
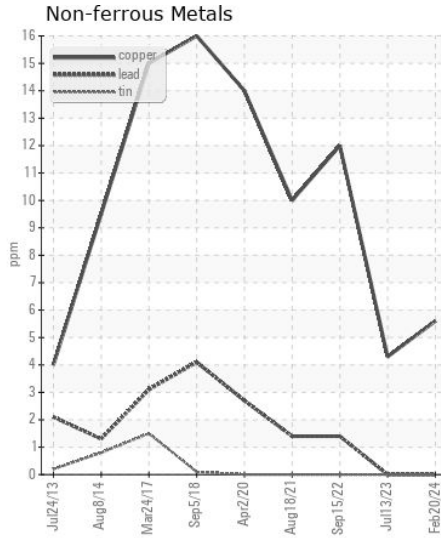
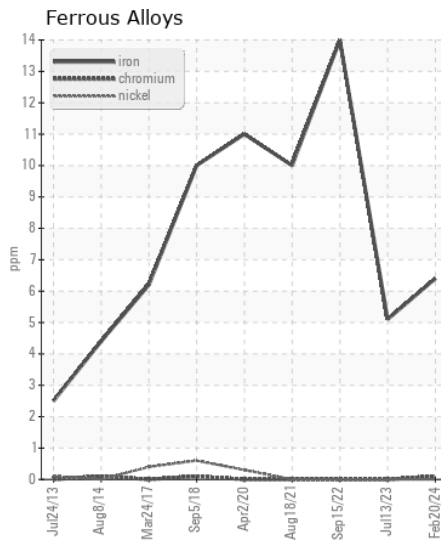
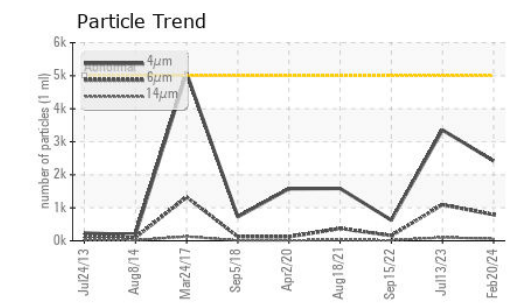
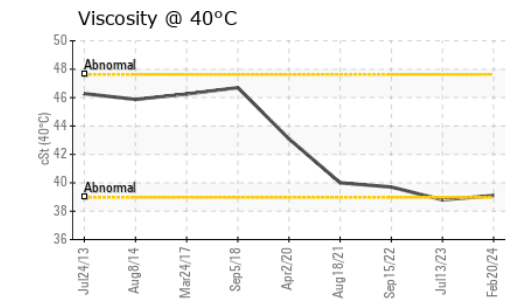
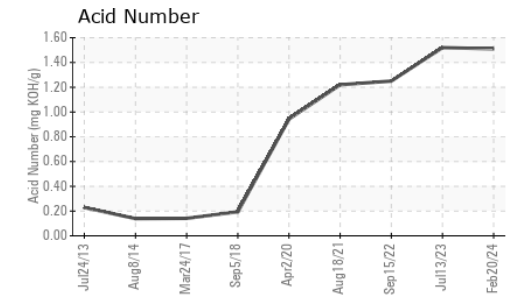
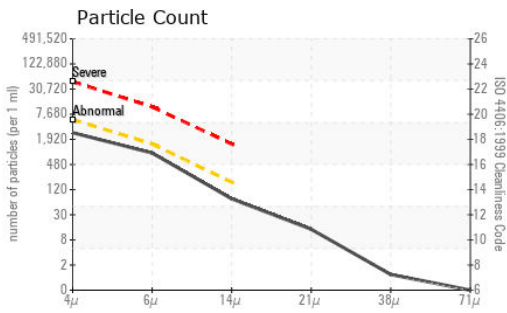
There is no indication of any contamination in the oil. The amount and size of particulates present in the system are acceptable.

| | | | | | | |
|------------------|--------|--------------|-----------|-----------------|----------|----------|
| Silicon | ppm | ASTM D5185m | >20 | 3 | 1 | 2 |
| Potassium | ppm | ASTM D5185m | >20 | 0 | 0 | 0 |
| Water | | WC Method | >0.1 | NEG | NEG | NEG |
| Particles >4µm | | ASTM D7647 | >5000 | 2421 | 3355 | 627 |
| Particles >6µm | | ASTM D7647 | >1300 | 793 | 1094 | 157 |
| Particles >14µm | | ASTM D7647 | >160 | 64 | 101 | 15 |
| Particles >21µm | | ASTM D7647 | >40 | 12 | 27 | 3 |
| Particles >38µm | | ASTM D7647 | >10 | 1 | 2 | 0 |
| Particles >71µm | | ASTM D7647 | >3 | 0 | 0 | 0 |
| Oil Cleanliness | | ISO 4406 (c) | >19/17/14 | 18/17/13 | 19/17/14 | 16/14/11 |
| 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 | >0.1 | 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 | | 2 | <1 | 3 |
| Boron | ppm | ASTM D5185m | | 7 | 6 | 3 |
| Barium | ppm | ASTM D5185m | | 0 | 0 | 0 |
| Molybdenum | ppm | ASTM D5185m | | <1 | 1 | 1 |
| Manganese | ppm | ASTM D5185m | | <1 | <1 | <1 |
| Magnesium | ppm | ASTM D5185m | | 635 | 640 | 630 |
| Calcium | ppm | ASTM D5185m | | 76 | 54 | 88 |
| Phosphorus | ppm | ASTM D5185m | | 967 | 962 | 860 |
| Zinc | ppm | ASTM D5185m | | 1095 | 1117 | 1027 |
| Sulfur | ppm | ASTM D5185m | | 6822 | 8376 | 7720 |
| Acid Number (AN) | mg KOH/g | ASTM D8045 | | 1.51 | 1.52 | 1.25 |
| Visc @ 40°C | cSt | ASTM D445 | | 39.1 | 38.8 | 39.7 |



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0902801
Lab Number : 06097602
Unique Number : 10890455
Test Package : CONST
Received : 22 Feb 2024
Tested : 23 Feb 2024
Diagnosed : 24 Feb 2024 - Don Baldrige

CAROLINA SUNROCK
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 BUTNER, NC
 US 27509

Contact: Leigh Dennis
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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)