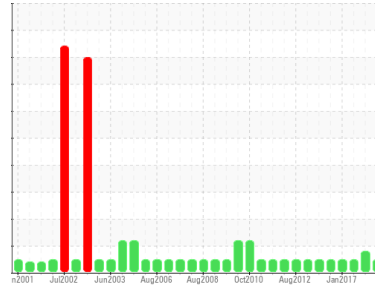




OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Machine Id
R-300 (S/N 525422-2)
 Component
Agitator Gearbox
 Fluid
MOBIL MOBILGEAR 630 (5 GAL)

DIAGNOSIS

Recommendation

No corrective action is recommended at this time. Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

The amount and size of particulates present in the system are acceptable.

Fluid Condition

The AN level is acceptable for this fluid. The condition of the oil is acceptable for the time in service.

SAMPLE INFORMATION

| | method | limit/base | current | history1 | history2 |
|---------------|-------------|-------------|--------------------|-------------|-------------|
| Sample Number | Client Info | | WC05905451 | WC0507896 | WCI2341349 |
| Sample Date | Client Info | | 23 Jul 2023 | 16 Feb 2021 | 30 Jan 2019 |
| Machine Age | mths | Client Info | 0 | 0 | 0 |
| Oil Age | mths | Client Info | 0 | 0 | 0 |
| Oil Changed | Client Info | | N/A | N/A | N/A |
| Sample Status | | | NORMAL | ABNORMAL | NORMAL |

WEAR METALS

| | method | limit/base | current | history1 | history2 |
|----------|--------|------------------|--------------|----------|----------|
| Iron | ppm | ASTM D5185m >150 | 16 | 13 | 9 |
| Chromium | ppm | ASTM D5185m >10 | 0 | <1 | 0 |
| Nickel | ppm | ASTM D5185m >10 | 0 | <1 | <1 |
| Titanium | ppm | ASTM D5185m | 0 | 0 | 0 |
| Silver | ppm | ASTM D5185m | <1 | 0 | 0 |
| Aluminum | ppm | ASTM D5185m >25 | 0 | 0 | <1 |
| Lead | ppm | ASTM D5185m >100 | <1 | <1 | <1 |
| Copper | ppm | ASTM D5185m >50 | <1 | <1 | <1 |
| Tin | ppm | ASTM D5185m >10 | 0 | 0 | 0 |
| Antimony | ppm | ASTM D5185m >5 | --- | 2 | 2 |
| Vanadium | ppm | ASTM D5185m | 0 | 0 | 0 |
| Cadmium | ppm | ASTM D5185m | 0 | 0 | 0 |

ADDITIVES

| | method | limit/base | current | history1 | history2 |
|------------|--------|-------------|--------------|----------|----------|
| Boron | ppm | ASTM D5185m | 2 | 4 | 3 |
| Barium | ppm | ASTM D5185m | <1 | 0 | 0 |
| Molybdenum | ppm | ASTM D5185m | 0 | <1 | 0 |
| Manganese | ppm | ASTM D5185m | <1 | <1 | <1 |
| Magnesium | ppm | ASTM D5185m | 0 | <1 | 0 |
| Calcium | ppm | ASTM D5185m | <1 | 1 | 2 |
| Phosphorus | ppm | ASTM D5185m | 215 | 219 | 205 |
| Zinc | ppm | ASTM D5185m | 275 | 248 | 216 |
| Sulfur | ppm | ASTM D5185m | 16280 | 13131 | 18471 |

CONTAMINANTS

| | method | limit/base | current | history1 | history2 |
|-----------|--------|-----------------|--------------|----------|----------|
| Silicon | ppm | ASTM D5185m >50 | <1 | <1 | 1 |
| Sodium | ppm | ASTM D5185m | 0 | 2 | 1 |
| Potassium | ppm | ASTM D5185m >20 | 1 | 0 | <1 |

FLUID CLEANLINESS

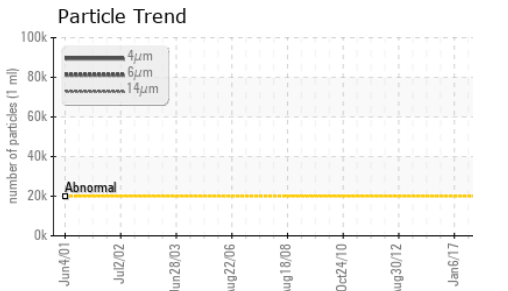
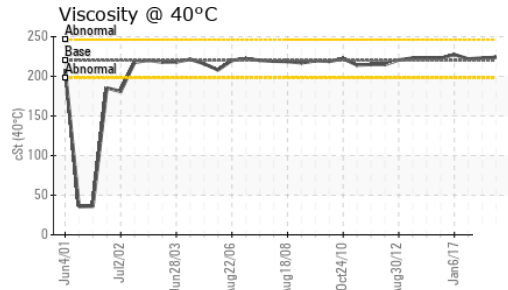
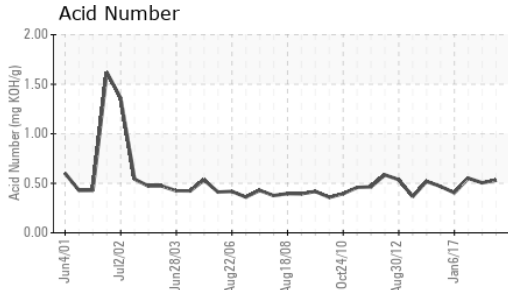
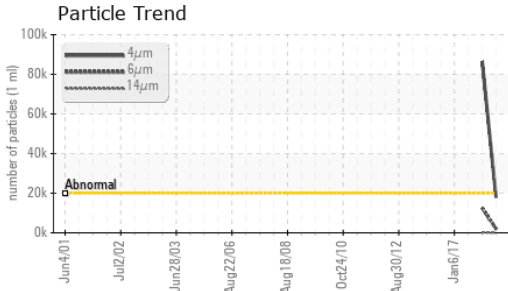
| | method | limit/base | current | history1 | history2 |
|-----------------|--------------|------------|-----------------|------------|----------|
| Particles >4µm | ASTM D7647 | >20000 | 17951 | ▲ 86514 | --- |
| Particles >6µm | ASTM D7647 | >5000 | 2025 | ▲ 12551 | --- |
| Particles >14µm | ASTM D7647 | >640 | 51 | 200 | --- |
| Particles >21µm | ASTM D7647 | >160 | 15 | 32 | --- |
| Particles >38µm | ASTM D7647 | >40 | 4 | 0 | --- |
| Particles >71µm | ASTM D7647 | >10 | 3 | 0 | --- |
| Oil Cleanliness | ISO 4406 (c) | >21/19/16 | 21/18/13 | ▲ 24/21/15 | --- |

FLUID DEGRADATION

| | method | limit/base | current | history1 | history2 |
|------------------|----------|------------|-------------|----------|----------|
| Acid Number (AN) | mg KOH/g | ASTM D8045 | 0.53 | 0.505 | 0.551 |



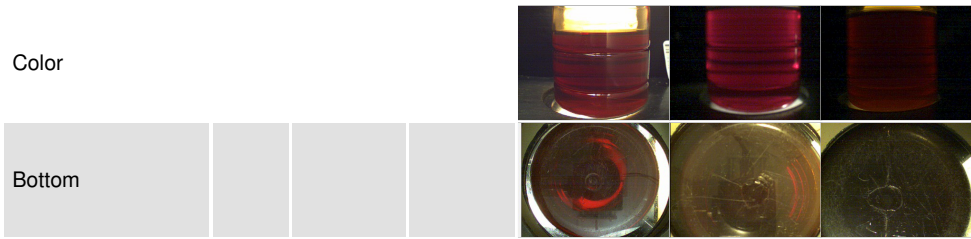
OIL ANALYSIS REPORT



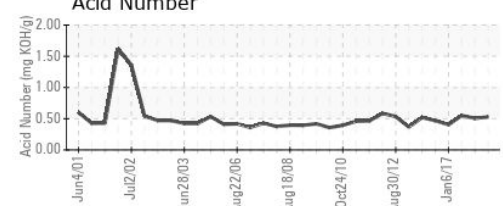
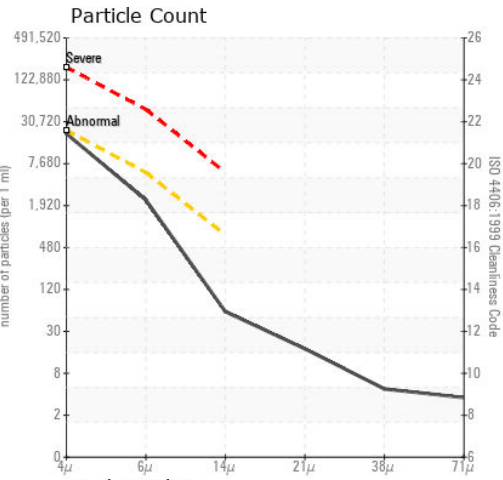
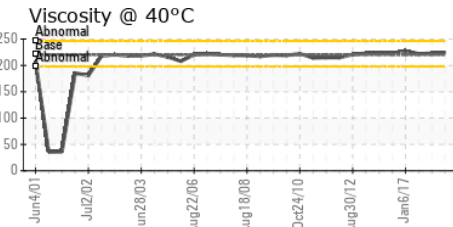
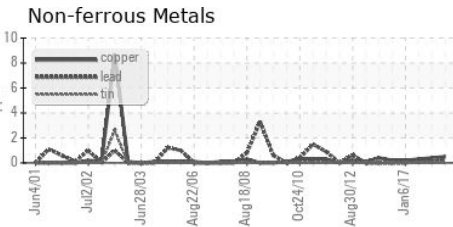
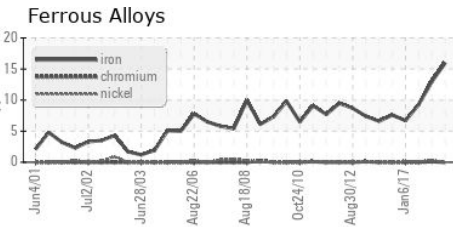
| VISUAL | method | limit/base | current | history1 | history2 |
|------------------|--------|------------|---------|----------|----------|
| White Metal | scalar | *Visual | NONE | NONE | LIGHT |
| Yellow Metal | scalar | *Visual | NONE | NONE | NONE |
| Precipitate | scalar | *Visual | NONE | NONE | NONE |
| Silt | scalar | *Visual | NONE | NONE | NONE |
| Debris | scalar | *Visual | NONE | NONE | NONE |
| Sand/Dirt | scalar | *Visual | NONE | NONE | NONE |
| Appearance | scalar | *Visual | NORML | NORML | NORML |
| Odor | scalar | *Visual | NORML | NORML | NORML |
| Emulsified Water | scalar | *Visual | >0.1 | NEG | NEG |
| Free Water | scalar | *Visual | | NEG | NEG |

| FLUID PROPERTIES | method | limit/base | current | history1 | history2 |
|------------------|--------|------------|---------|------------|----------|
| Visc @ 40°C | cSt | ASTM D445 | 220 | 224 | 223 |

| SAMPLE IMAGES | method | limit/base | current | history1 | history2 |
|---------------|--------|------------|---------|----------|----------|
|---------------|--------|------------|---------|----------|----------|



GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC05905451 **Received** : 24 Jul 2023
Lab Number : 05905451 **Diagnosed** : 25 Jul 2023
Unique Number : 10566807 **Diagnostician** : Angela Borella
Test Package : IND 2 (Additional Tests: PrtCount)

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 T:
 F: (570)748-1813

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)