



OIL ANALYSIS REPORT

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

Area

Mobile Fleet

Machine Id

6452 6452

Component

Rear Differential

Fluid

MOBIL DELVAC 1 SYNTHETIC GEAR SAE 75W90 (--- GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

| Test | UOM | Method | Limit/Abn | Current | History1 | History2 |
|----------------|-----|-------------|-----------|--------------------|-------------|-------------|
| Sample Number | | Client Info | | WC0937841 | WC0771078 | WC0694967 |
| Sample Date | | Client Info | | 08 Jul 2024 | 06 Jul 2023 | 19 May 2022 |
| Machine Age | hrs | Client Info | | 8182 | 6375 | 4184 |
| Oil Age | hrs | Client Info | | 4005 | 2198 | 4184 |
| Filter Age | hrs | Client Info | | 4005 | 0 | 0 |
| Oil Changed | | Client Info | | Not Changd | Not Changd | Changed |
| Filter Changed | | Client Info | | Not Changd | Not Changd | Changed |
| Sample Status | | | | NORMAL | ATTENTION | ABNORMAL |

WEAR

All component wear rates are normal.

| | | | | | | |
|--------------|--------|-------------|------|--------------|-------|------|
| Iron | ppm | ASTM D5185m | >500 | 74 | 78 | 132 |
| Chromium | ppm | ASTM D5185m | >10 | <1 | <1 | 1 |
| Nickel | ppm | ASTM D5185m | >10 | 0 | 0 | <1 |
| Titanium | ppm | ASTM D5185m | | <1 | <1 | <1 |
| Silver | ppm | ASTM D5185m | | 0 | 0 | 1 |
| Aluminum | ppm | ASTM D5185m | >25 | 3 | 3 | 9 |
| Lead | ppm | ASTM D5185m | >25 | 0 | <1 | <1 |
| Copper | ppm | ASTM D5185m | >100 | <1 | <1 | 1 |
| Tin | ppm | ASTM D5185m | >10 | 0 | 0 | <1 |
| Vanadium | ppm | ASTM D5185m | | 0 | 0 | 0 |
| White Metal | scalar | *Visual | NONE | NONE | LIGHT | NONE |
| Yellow Metal | scalar | *Visual | NONE | NONE | NONE | NONE |

CONTAMINATION

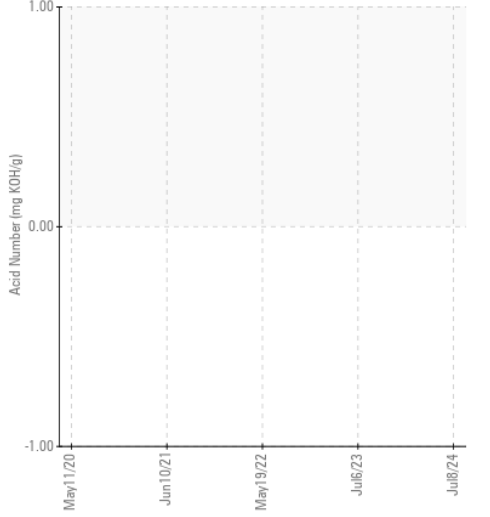
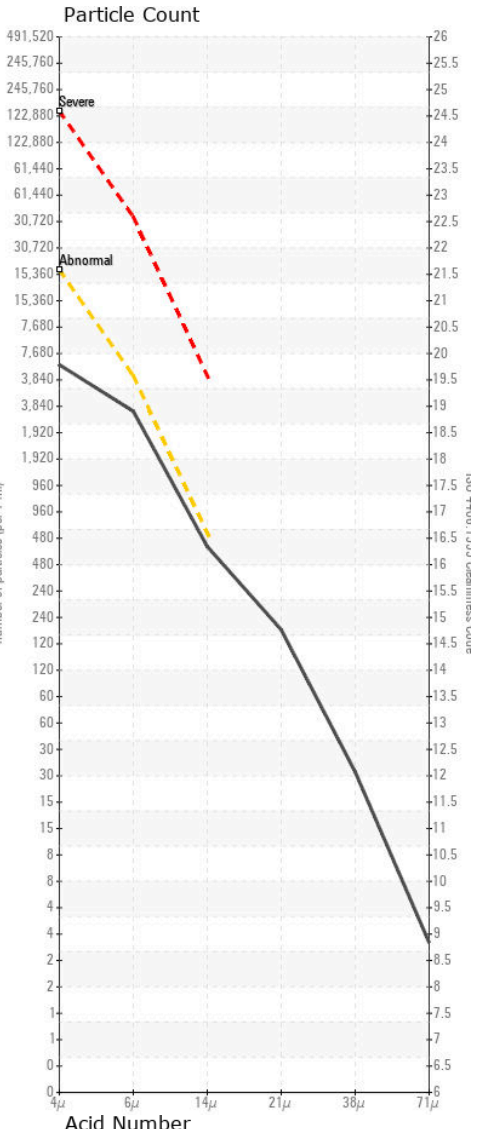
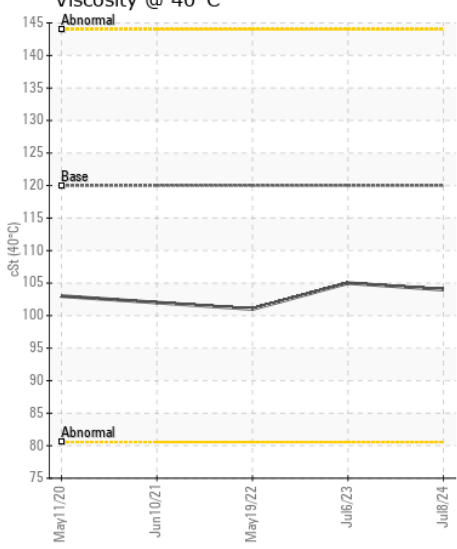
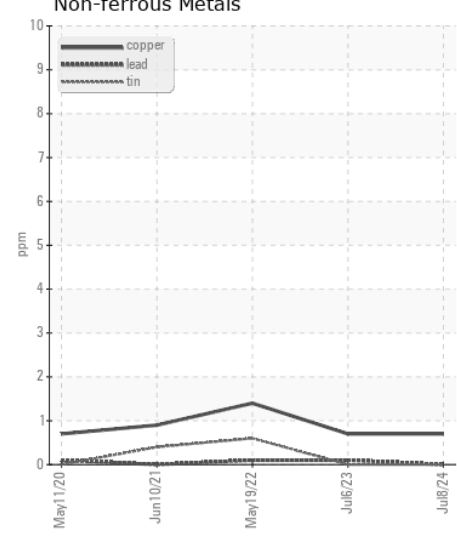
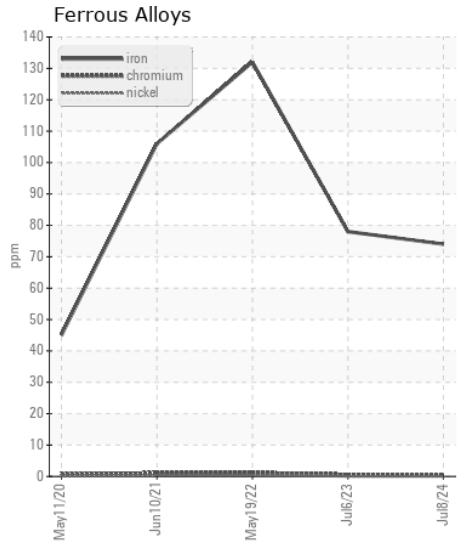
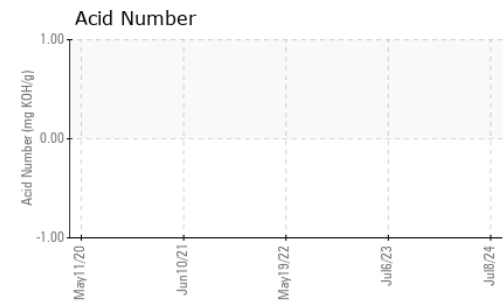
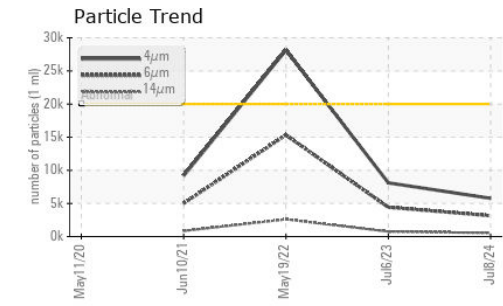
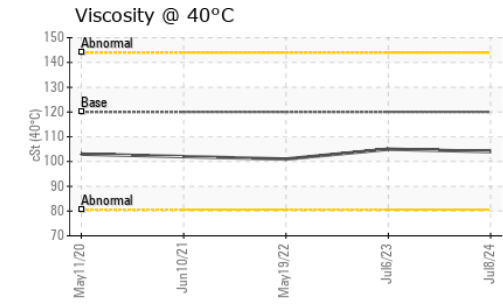
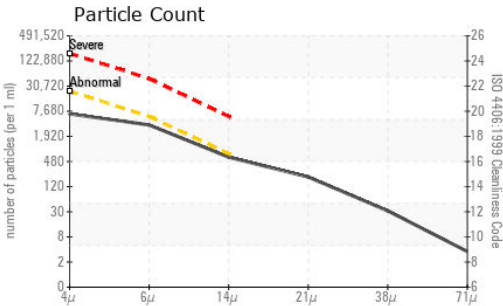
The amount and size of particulates present in the system are acceptable. There is no indication of any contamination in the oil.

| | | | | | | |
|------------------|--------|--------------|-----------|-----------------|------------|------------|
| Silicon | ppm | ASTM D5185m | >75 | 20 | 17 | 39 |
| Potassium | ppm | ASTM D5185m | >20 | 2 | 1 | 1 |
| Water | | WC Method | >.2 | NEG | NEG | NEG |
| Particles >4µm | | ASTM D7647 | >20000 | 5768 | 8108 | ● 28141 |
| Particles >6µm | | ASTM D7647 | >5000 | 3142 | 4417 | ▲ 15330 |
| Particles >14µm | | ASTM D7647 | >640 | 535 | ● 752 | ▲ 2609 |
| Particles >21µm | | ASTM D7647 | >160 | 180 | ● 253 | ▲ 879 |
| Particles >38µm | | ASTM D7647 | >40 | 28 | 39 | ▲ 136 |
| Particles >71µm | | ASTM D7647 | >10 | 3 | 4 | ▲ 14 |
| Oil Cleanliness | | ISO 4406 (c) | >21/19/16 | 20/19/16 | ● 20/19/17 | ▲ 22/21/19 |
| 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 | >.2 | NEG | NEG | NEG |

FLUID CONDITION

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

| | | | | | | |
|-------------|-----|-------------|-----|--------------|-------|-------|
| Sodium | ppm | ASTM D5185m | | 3 | 0 | 8 |
| Boron | ppm | ASTM D5185m | | 80 | 89 | 304 |
| Barium | ppm | ASTM D5185m | | 0 | 0 | 0 |
| Molybdenum | ppm | ASTM D5185m | | 1 | 2 | <1 |
| Manganese | ppm | ASTM D5185m | | 4 | 4 | 16 |
| Magnesium | ppm | ASTM D5185m | | 18 | 9 | 4 |
| Calcium | ppm | ASTM D5185m | | 36 | 29 | 12 |
| Phosphorus | ppm | ASTM D5185m | | 897 | 823 | 1410 |
| Zinc | ppm | ASTM D5185m | | 19 | 23 | 12 |
| Sulfur | ppm | ASTM D5185m | | 24880 | 23249 | 22001 |
| Visc @ 40°C | cSt | ASTM D445 | 120 | 104 | 105 | 101 |



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0937841 **Received** : 10 Jul 2024
Lab Number : 06232166 **Tested** : 11 Jul 2024
Unique Number : 11115659 **Diagnosed** : 11 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)

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