



OIL ANALYSIS REPORT

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

Area

Mobile Fleet

Machine Id

6403 6403

Component

Front Differential

Fluid

MOBIL DELVAC 1 SYNTHETIC GEAR SAE 75W90 (9 GAL)

RECOMMENDATION

Resample at the next service interval to monitor. We were unable to perform a particle count due to a high concentration of particles present in this sample.

| Test | UOM | Method | Limit/Abn | Current | History1 | History2 |
|----------------|-----|-------------|-----------|--------------------|-------------|-------------|
| Sample Number | | Client Info | | WC0902848 | WC0744724 | WC0585556 |
| Sample Date | | Client Info | | 27 Feb 2024 | 06 Oct 2022 | 15 Sep 2021 |
| Machine Age | hrs | Client Info | | 10476 | 8367 | 6450 |
| Oil Age | hrs | Client Info | | 2109 | 4140 | 2223 |
| Filter Age | hrs | Client Info | | 0 | 0 | 0 |
| Oil Changed | | Client Info | | Not Changd | Changed | Not Changd |
| Filter Changed | | Client Info | | Not Changd | N/A | Not Changd |
| Sample Status | | | | ABNORMAL | NORMAL | ABNORMAL |

WEAR

All component wear rates are normal.

| | | | | | | |
|--------------|--------|-------------|------|--------------|------|-------|
| Iron | ppm | ASTM D5185m | >500 | 23 | 56 | 87 |
| Chromium | ppm | ASTM D5185m | >10 | <1 | <1 | <1 |
| Nickel | ppm | ASTM D5185m | >10 | <1 | 0 | 0 |
| Titanium | ppm | ASTM D5185m | | <1 | 0 | <1 |
| Silver | ppm | ASTM D5185m | | 0 | 0 | 1 |
| Aluminum | ppm | ASTM D5185m | >25 | 11 | 2 | 2 |
| Lead | ppm | ASTM D5185m | >25 | 0 | 0 | 0 |
| Copper | ppm | ASTM D5185m | >100 | 20 | 94 | ▲ 452 |
| Tin | ppm | ASTM D5185m | >10 | <1 | 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

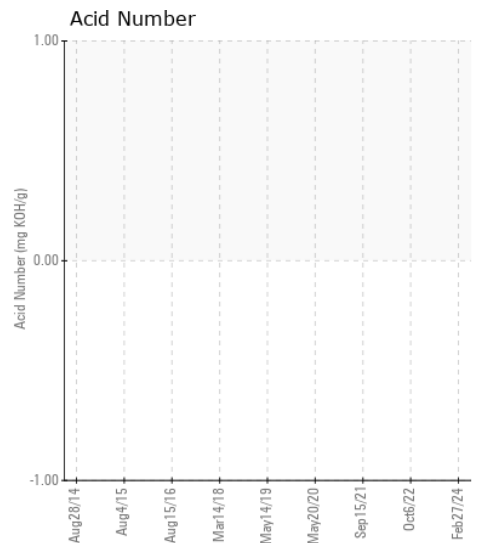
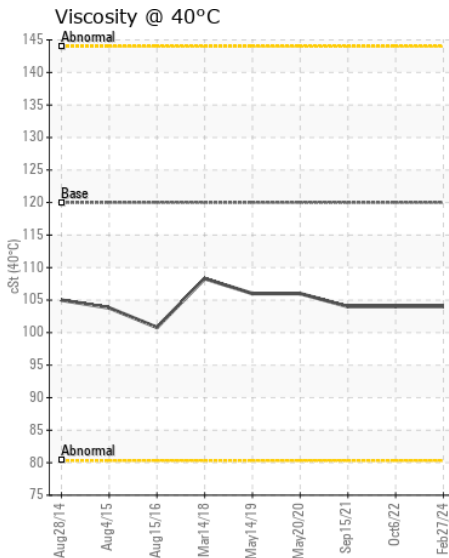
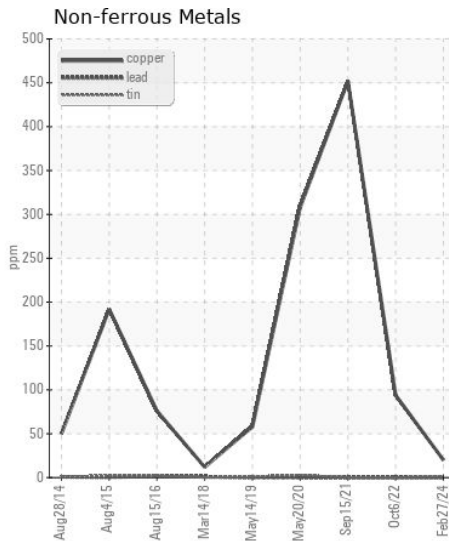
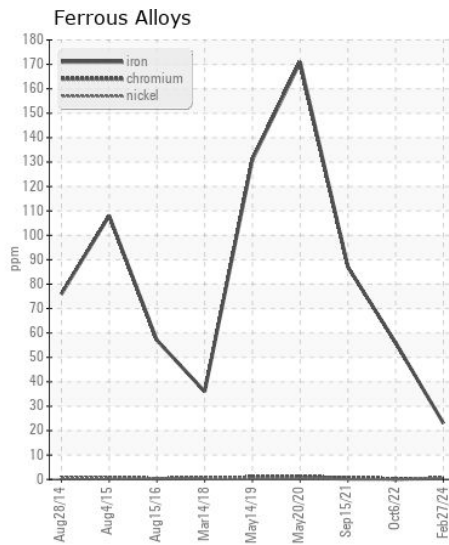
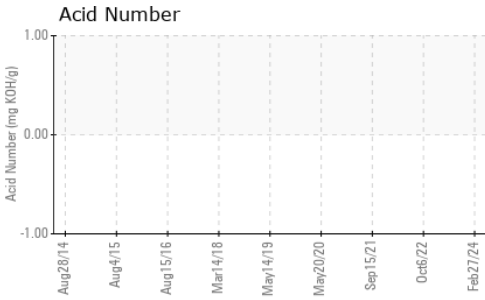
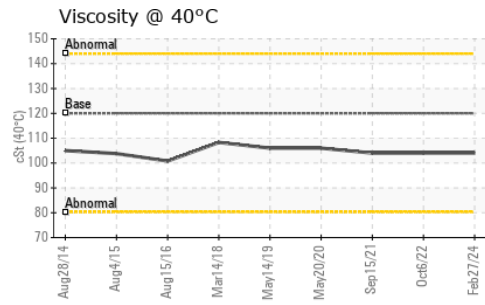
There is a moderate amount of visible silt present in the sample.

| | | | | | | |
|------------------|--------|--------------|-----------|----------------|----------|------------|
| Silicon | ppm | ASTM D5185m | >75 | 40 | 24 | 47 |
| Potassium | ppm | ASTM D5185m | >20 | 2 | 0 | 0 |
| Water | | WC Method | >.2 | NEG | NEG | NEG |
| Particles >4µm | | ASTM D7647 | >20000 | --- | 3591 | 11875 |
| Particles >6µm | | ASTM D7647 | >5000 | --- | 1956 | ● 6469 |
| Particles >14µm | | ASTM D7647 | >640 | --- | 333 | ● 1101 |
| Particles >21µm | | ASTM D7647 | >160 | --- | 112 | ● 371 |
| Particles >38µm | | ASTM D7647 | >40 | --- | 17 | ● 57 |
| Particles >71µm | | ASTM D7647 | >10 | --- | 2 | 6 |
| Oil Cleanliness | | ISO 4406 (c) | >21/19/16 | --- | 19/18/16 | ● 21/20/17 |
| Silt | scalar | *Visual | NONE | ▲ MODER | 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 | | 2 | 2 | 2 |
| Boron | ppm | ASTM D5185m | | 257 | 307 | 303 |
| Barium | ppm | ASTM D5185m | | 0 | 0 | <1 |
| Molybdenum | ppm | ASTM D5185m | | 1 | 1 | 0 |
| Manganese | ppm | ASTM D5185m | | <1 | 1 | 2 |
| Magnesium | ppm | ASTM D5185m | | 10 | 10 | 13 |
| Calcium | ppm | ASTM D5185m | | 50 | 36 | 35 |
| Phosphorus | ppm | ASTM D5185m | | 1311 | 1306 | 1261 |
| Zinc | ppm | ASTM D5185m | | 29 | 28 | 40 |
| Sulfur | ppm | ASTM D5185m | | 25255 | 26844 | 17427 |
| Visc @ 40°C | cSt | ASTM D445 | 120 | 104 | 104 | 104 |



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0902848 **Received** : 29 Feb 2024
Lab Number : 06104227 **Tested** : 04 Mar 2024
Unique Number : 10902457 **Diagnosed** : 04 Mar 2024 - Jonathan Hester
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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