



# OIL ANALYSIS REPORT

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

Area  
**Mobile Fleet**

Machine Id  
**6434 6434**

Component  
**Hydraulic System**

Fluid  
**MOBIL MOBILFLUID 424 (25 GAL)**

## RECOMMENDATION

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

| Test           | UOM | Method      | Limit/Abn | Current            | History1    | History2    |
|----------------|-----|-------------|-----------|--------------------|-------------|-------------|
| Sample Number  |     | Client Info |           | <b>WC0885956</b>   | WC0852493   | WC0771014   |
| Sample Date    |     | Client Info |           | <b>15 Jan 2024</b> | 11 Sep 2023 | 05 Jul 2023 |
| Machine Age    | hrs | Client Info |           | <b>9039</b>        | 8362        | 7971        |
| Oil Age        | hrs | Client Info |           | <b>677</b>         | 391         | 1386        |
| Filter Age     | hrs | Client Info |           | <b>677</b>         | 391         | 1386        |
| Oil Changed    |     | Client Info |           | <b>Not Changd</b>  | Changed     | Changed     |
| Filter Changed |     | Client Info |           | <b>Not Changd</b>  | Changed     | Changed     |
| Sample Status  |     |             |           | <b>ATTENTION</b>   | NORMAL      | NORMAL      |

## WEAR

All component wear rates are normal.

|              |        |             |      |              |      |      |
|--------------|--------|-------------|------|--------------|------|------|
| Iron         | ppm    | ASTM D5185m | >20  | <b>0</b>     | 3    | 3    |
| Chromium     | ppm    | ASTM D5185m | >10  | <b>0</b>     | <1   | <1   |
| Nickel       | ppm    | ASTM D5185m | >10  | <b>0</b>     | 0    | <1   |
| Titanium     | ppm    | ASTM D5185m |      | <b>0</b>     | 0    | 0    |
| Silver       | ppm    | ASTM D5185m |      | <b>0</b>     | 0    | 6    |
| Aluminum     | ppm    | ASTM D5185m | >10  | <b>&lt;1</b> | 0    | <1   |
| Lead         | ppm    | ASTM D5185m | >10  | <b>0</b>     | <1   | <1   |
| Copper       | ppm    | ASTM D5185m | >75  | <b>2</b>     | 2    | 4    |
| Tin          | ppm    | ASTM D5185m | >10  | <b>0</b>     | <1   | <1   |
| Vanadium     | ppm    | ASTM D5185m |      | <b>0</b>     | 0    | 0    |
| White Metal  | scalar | *Visual     | NONE | <b>NONE</b>  | NONE | NONE |
| Yellow Metal | scalar | *Visual     | NONE | <b>NONE</b>  | NONE | NONE |

## CONTAMINATION

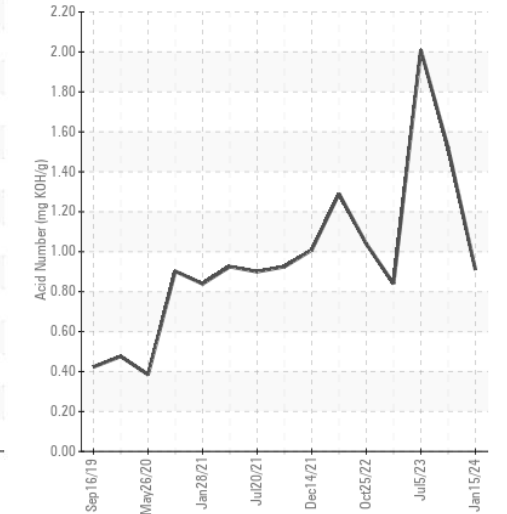
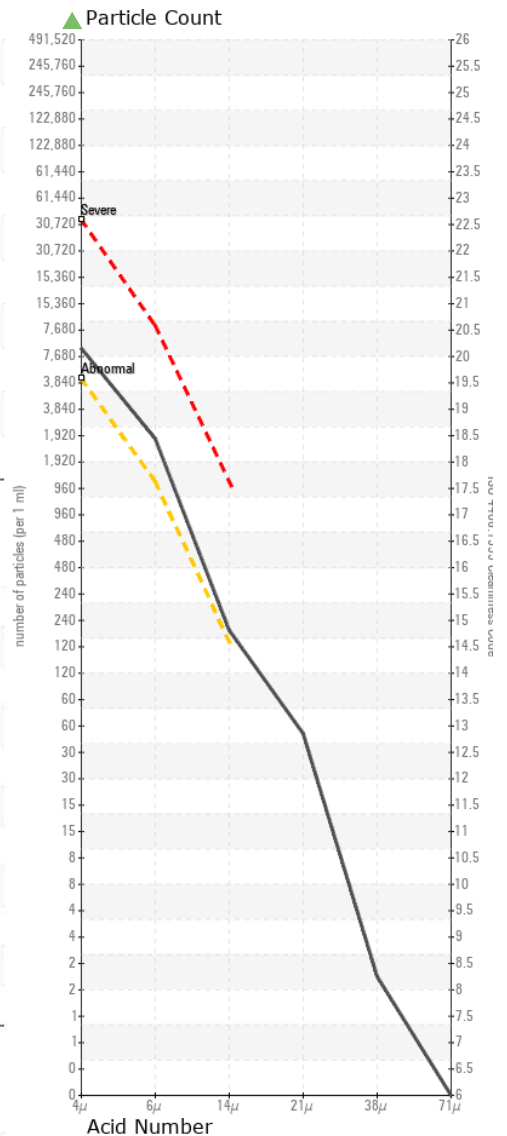
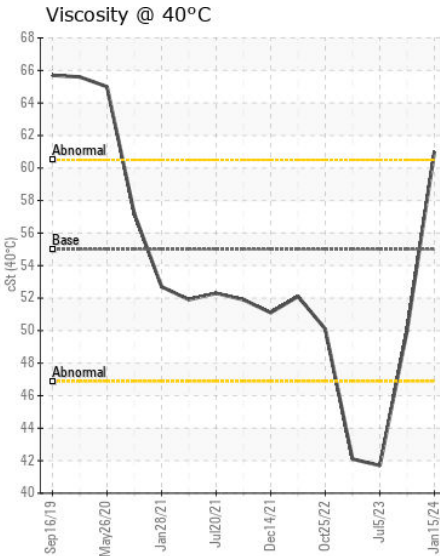
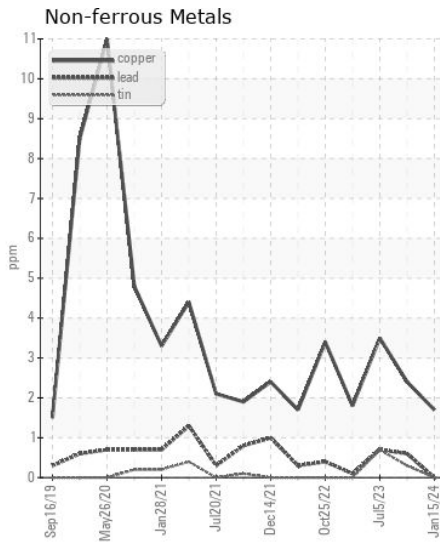
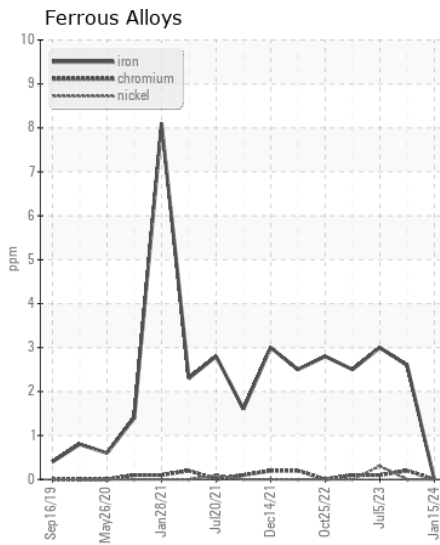
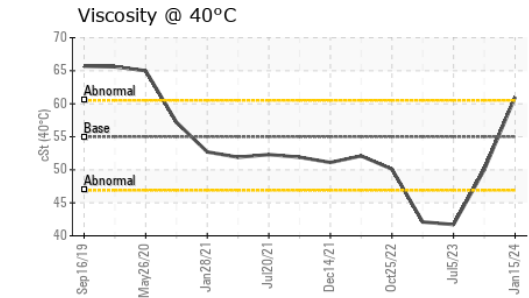
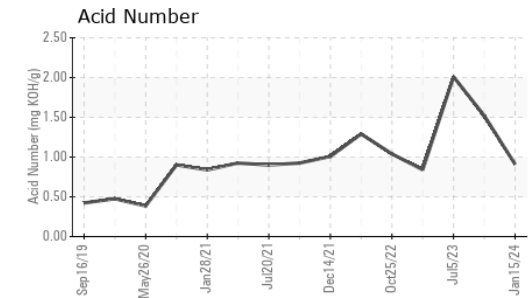
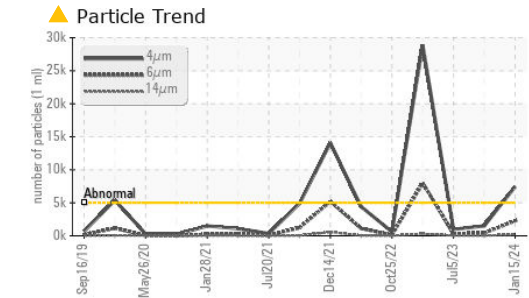
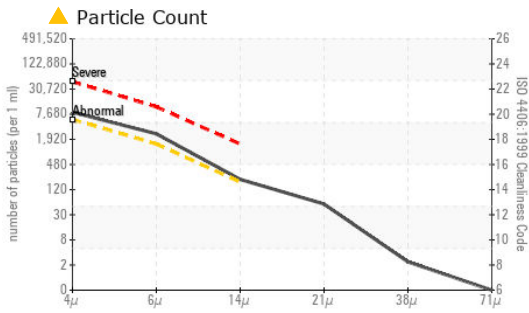
There is a moderate amount of particulates present in the oil.

|                  |        |              |           |                   |          |          |
|------------------|--------|--------------|-----------|-------------------|----------|----------|
| Silicon          | ppm    | ASTM D5185m  | >20       | <b>8</b>          | 10       | 7        |
| Potassium        | ppm    | ASTM D5185m  | >20       | <b>0</b>          | <1       | 1        |
| Water            |        | WC Method    | >0.1      | <b>NEG</b>        | NEG      | NEG      |
| Particles >4µm   |        | ASTM D7647   | >5000     | <b>▲ 7439</b>     | 1508     | 974      |
| Particles >6µm   |        | ASTM D7647   | >1300     | <b>▲ 2278</b>     | 408      | 319      |
| Particles >14µm  |        | ASTM D7647   | >160      | <b>▲ 186</b>      | 21       | 31       |
| Particles >21µm  |        | ASTM D7647   | >40       | <b>▲ 48</b>       | 3        | 7        |
| Particles >38µm  |        | ASTM D7647   | >10       | <b>2</b>          | 1        | 1        |
| Particles >71µm  |        | ASTM D7647   | >3        | <b>0</b>          | 1        | 0        |
| Oil Cleanliness  |        | ISO 4406 (c) | >19/17/14 | <b>▲ 20/18/15</b> | 18/16/12 | 17/15/12 |
| Silt             | scalar | *Visual      | NONE      | <b>NONE</b>       | NONE     | NONE     |
| Debris           | scalar | *Visual      | NONE      | <b>NONE</b>       | NONE     | NONE     |
| Sand/Dirt        | scalar | *Visual      | NONE      | <b>NONE</b>       | NONE     | NONE     |
| Appearance       | scalar | *Visual      | NORML     | <b>NORML</b>      | NORML    | NORML    |
| Odor             | scalar | *Visual      | NORML     | <b>NORML</b>      | NORML    | NORML    |
| Emulsified Water | scalar | *Visual      | >0.1      | <b>NEG</b>        | 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 |    | <b>0</b>     | 3    | <1   |
| Boron            | ppm      | ASTM D5185m |    | <b>105</b>   | 124  | 120  |
| Barium           | ppm      | ASTM D5185m |    | <b>0</b>     | 0    | <1   |
| Molybdenum       | ppm      | ASTM D5185m |    | <b>11</b>    | 18   | 10   |
| Manganese        | ppm      | ASTM D5185m |    | <b>&lt;1</b> | <1   | <1   |
| Magnesium        | ppm      | ASTM D5185m |    | <b>64</b>    | 59   | 71   |
| Calcium          | ppm      | ASTM D5185m |    | <b>3035</b>  | 3382 | 2908 |
| Phosphorus       | ppm      | ASTM D5185m |    | <b>1083</b>  | 1097 | 982  |
| Zinc             | ppm      | ASTM D5185m |    | <b>1289</b>  | 1375 | 1212 |
| Sulfur           | ppm      | ASTM D5185m |    | <b>6507</b>  | 8739 | 5602 |
| Acid Number (AN) | mg KOH/g | ASTM D8045  |    | <b>0.91</b>  | 1.52 | 2.01 |
| Visc @ 40°C      | cSt      | ASTM D445   | 55 | <b>61.0</b>  | 50.0 | 41.7 |



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : WC0885956 **Received** : 19 Jan 2024  
**Lab Number** : 06065551 **Diagnosed** : 23 Jan 2024  
**Unique Number** : 10836933 **Diagnostician** : Don Baldrige  
**Test Package** : CONST

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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