



# OIL ANALYSIS REPORT

|                 |               |
|-----------------|---------------|
| WEAR            | <b>NORMAL</b> |
| CONTAMINATION   | <b>NORMAL</b> |
| FLUID CONDITION | <b>NORMAL</b> |

Area  
**Mobile Fleet**  
 Machine Id  
**6425 6425**  
 Component  
**Transmission (Auto)**  
 Fluid  
**MOBIL DELVAC SYNTHETIC ATF (8 GAL)**

## RECOMMENDATION

Resample at the next service interval to monitor.

| Test           | UOM | Method      | Limit/Abn | Current            | History1    | History2    |
|----------------|-----|-------------|-----------|--------------------|-------------|-------------|
| Sample Number  |     | Client Info |           | <b>WC0947913</b>   | WC0861988   | WC0794015   |
| Sample Date    |     | Client Info |           | <b>01 Jul 2024</b> | 10 Oct 2023 | 10 Apr 2023 |
| Machine Age    | hrs | Client Info |           | <b>11937</b>       | 10548       | 9357        |
| Oil Age        | hrs | Client Info |           | <b>3627</b>        | 2238        | 1047        |
| Filter Age     | hrs | Client Info |           | <b>1407</b>        | 2238        | 1047        |
| Oil Changed    |     | Client Info |           | <b>Not Changd</b>  | Not Changd  | Not Changd  |
| Filter Changed |     | Client Info |           | <b>Not Changd</b>  | Changed     | Not Changd  |
| Sample Status  |     |             |           | <b>NORMAL</b>      | ABNORMAL    | NORMAL      |

## WEAR

All component wear rates are normal.

|              |        |             |      |              |       |      |
|--------------|--------|-------------|------|--------------|-------|------|
| Iron         | ppm    | ASTM D5185m | >230 | <b>87</b>    | 91    | 67   |
| Chromium     | ppm    | ASTM D5185m | >2   | <b>0</b>     | 0     | 0    |
| Nickel       | ppm    | ASTM D5185m | >5   | <b>&lt;1</b> | 0     | 0    |
| Titanium     | ppm    | ASTM D5185m | >2   | <b>0</b>     | 0     | 0    |
| Silver       | ppm    | ASTM D5185m | >5   | <b>0</b>     | 0     | 0    |
| Aluminum     | ppm    | ASTM D5185m | >65  | <b>18</b>    | 18    | 17   |
| Lead         | ppm    | ASTM D5185m | >55  | <b>7</b>     | 8     | 6    |
| Copper       | ppm    | ASTM D5185m | >85  | <b>20</b>    | 23    | 15   |
| Tin          | ppm    | ASTM D5185m | >5   | <b>2</b>     | 2     | 2    |
| Vanadium     | ppm    | ASTM D5185m |      | <b>0</b>     | 0     | 0    |
| White Metal  | scalar | *Visual     | NONE | <b>NONE</b>  | LIGHT | NONE |
| Yellow Metal | scalar | *Visual     | NONE | <b>NONE</b>  | NONE  | NONE |

## CONTAMINATION

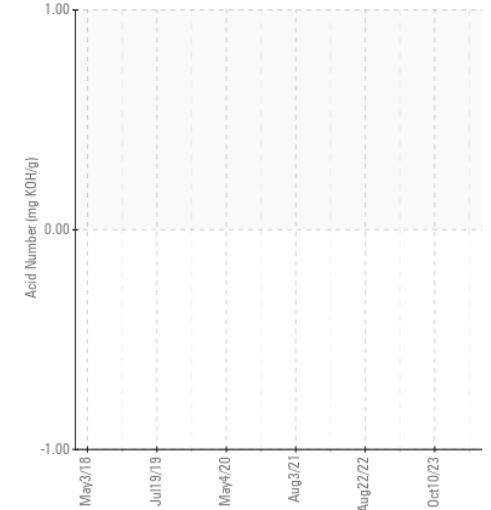
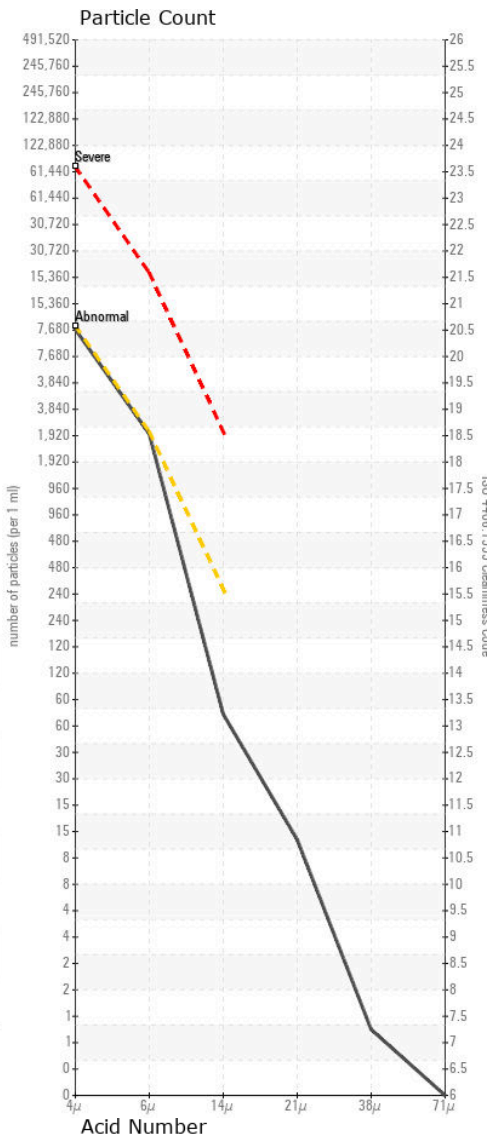
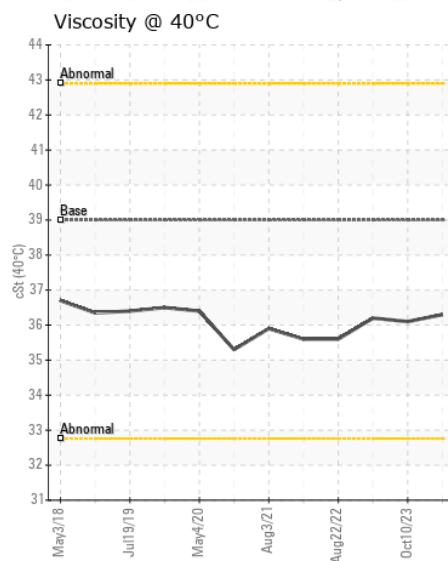
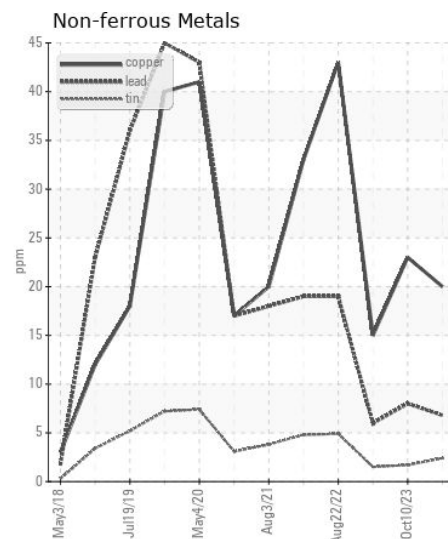
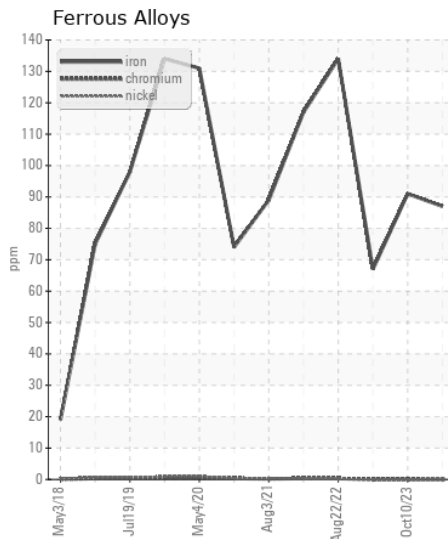
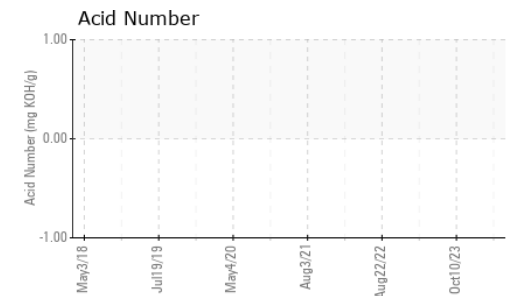
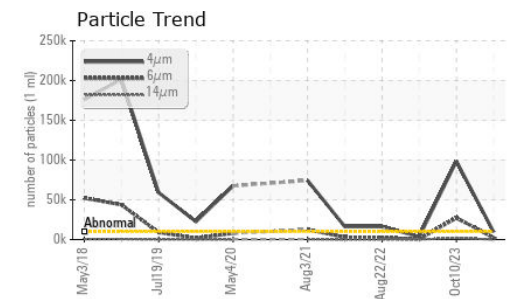
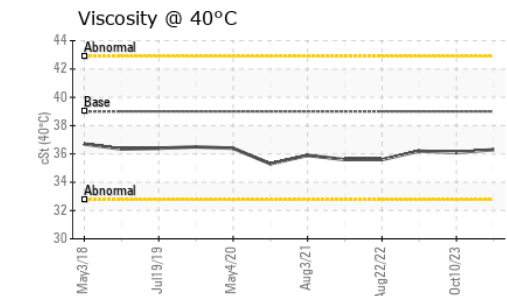
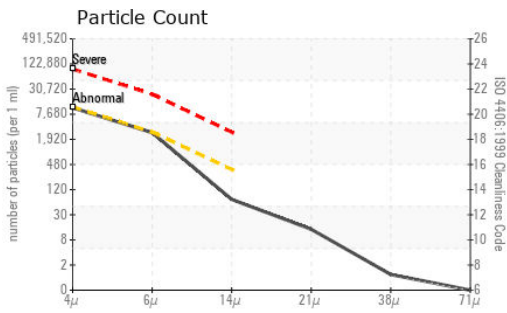
The amount and size of particulates present in the system are acceptable. There is no indication of any contamination in the fluid.

|                  |        |              |           |                 |            |          |
|------------------|--------|--------------|-----------|-----------------|------------|----------|
| Silicon          | ppm    | ASTM D5185m  | >20       | <b>2</b>        | 2          | 2        |
| Potassium        | ppm    | ASTM D5185m  | >20       | <b>2</b>        | 2          | <1       |
| Water            |        | WC Method    | >0.1      | <b>NEG</b>      | NEG        | NEG      |
| Particles >4µm   |        | ASTM D7647   | >10000    | <b>9525</b>     | ▲ 98522    | 3543     |
| Particles >6µm   |        | ASTM D7647   | >2500     | <b>2428</b>     | ▲ 27286    | 763      |
| Particles >14µm  |        | ASTM D7647   | >320      | <b>62</b>       | ▲ 1843     | 44       |
| Particles >21µm  |        | ASTM D7647   | >80       | <b>12</b>       | ▲ 351      | 8        |
| Particles >38µm  |        | ASTM D7647   | >20       | <b>1</b>        | 6          | 1        |
| Particles >71µm  |        | ASTM D7647   | >4        | <b>0</b>        | 0          | 0        |
| Oil Cleanliness  |        | ISO 4406 (c) | >20/18/15 | <b>20/18/13</b> | ▲ 24/22/18 | 19/17/13 |
| Silt             | scalar | *Visual      | NONE      | <b>NONE</b>     | NONE       | NONE     |
| Debris           | scalar | *Visual      | NONE      | <b>NONE</b>     | LIGHT      | 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 condition of the fluid is acceptable for the time in service.

|             |     |             |    |             |      |      |
|-------------|-----|-------------|----|-------------|------|------|
| Sodium      | ppm | ASTM D5185m |    | <b>4</b>    | 3    | 3    |
| Boron       | ppm | ASTM D5185m |    | <b>119</b>  | 119  | 132  |
| Barium      | ppm | ASTM D5185m |    | <b>0</b>    | 0    | 0    |
| Molybdenum  | ppm | ASTM D5185m |    | <b>0</b>    | 0    | <1   |
| Manganese   | ppm | ASTM D5185m |    | <b>1</b>    | <1   | 1    |
| Magnesium   | ppm | ASTM D5185m |    | <b>13</b>   | 13   | 15   |
| Calcium     | ppm | ASTM D5185m |    | <b>57</b>   | 57   | 59   |
| Phosphorus  | ppm | ASTM D5185m |    | <b>320</b>  | 323  | 324  |
| Zinc        | ppm | ASTM D5185m |    | <b>30</b>   | 16   | 31   |
| Sulfur      | ppm | ASTM D5185m |    | <b>1580</b> | 1663 | 1485 |
| Visc @ 40°C | cSt | ASTM D445   | 39 | <b>36.3</b> | 36.1 | 36.2 |



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : WC0947913 **Received** : 05 Jul 2024  
**Lab Number** : 06228419 **Tested** : 08 Jul 2024  
**Unique Number** : 11111912 **Diagnosed** : 08 Jul 2024 - Don Baldrige  
**Test Package** : CONST ( Additional Tests: PrtCount )

**CAROLINA SUNROCK**  
 PO BOX 25  
 BUTNER, NC  
 US 27509  
 Contact: Leigh Dennis  
 rdennis@thesunrockgroup.com  
 T: (919)575-4505  
 F: (919)575-0162

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)