



# OIL ANALYSIS REPORT

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

Machine Id  
**SCHWING 46 METER 164**  
 Component  
**Hydraulic System**  
 Fluid  
**DURALENE ZD AW 46 (150 GAL)**

## RECOMMENDATION

Check seals and/or filters for points of contaminant entry. The air breather requires service. If unrated, we recommend that you replace with a suitable micron rated and/or desiccant air breather. If rated, we recommend that you service/replace the breather. The filter change at the time of sampling has been noted. Resample in 30-45 days to monitor this situation.

## WEAR

All component wear rates are normal.

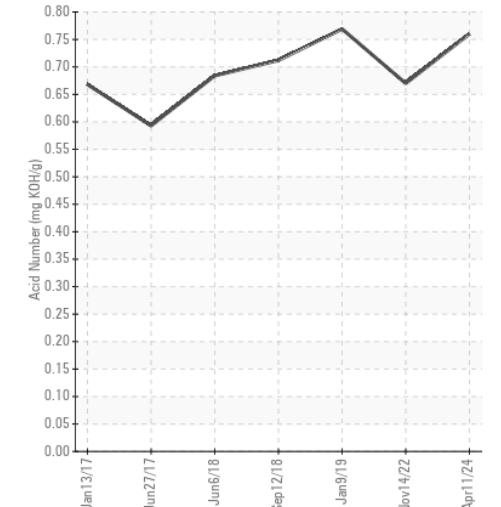
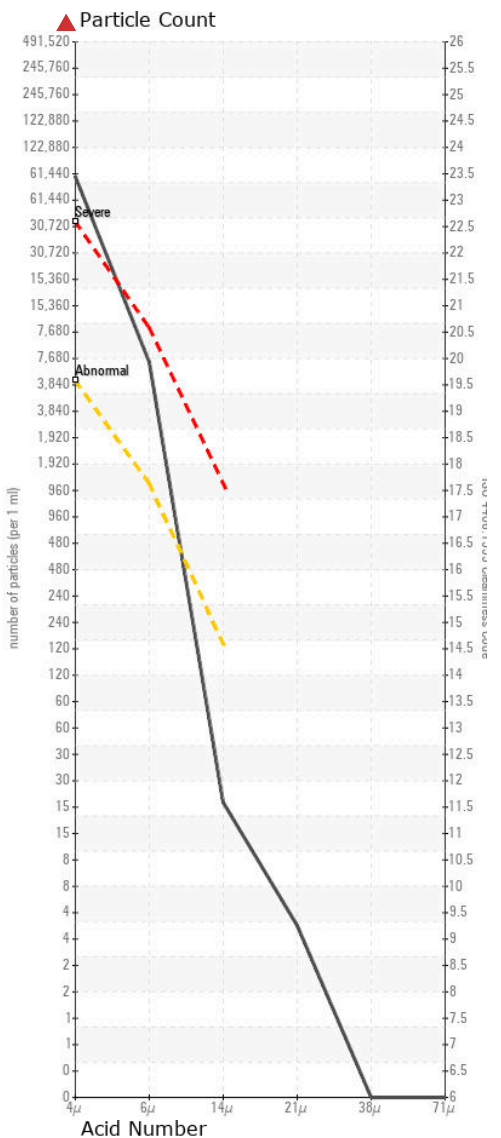
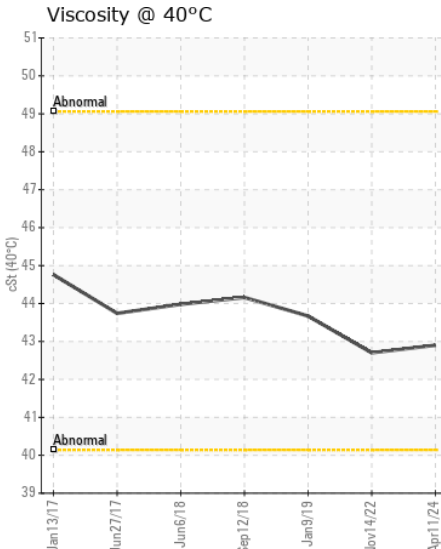
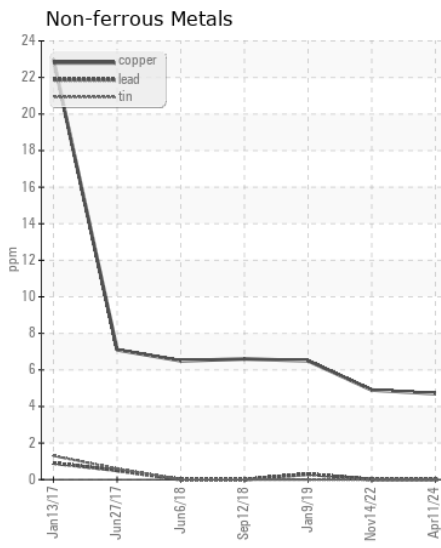
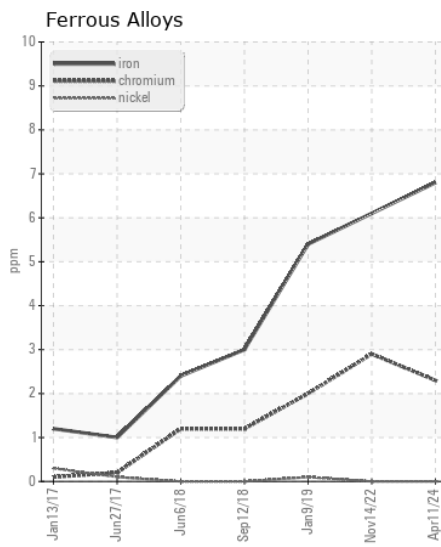
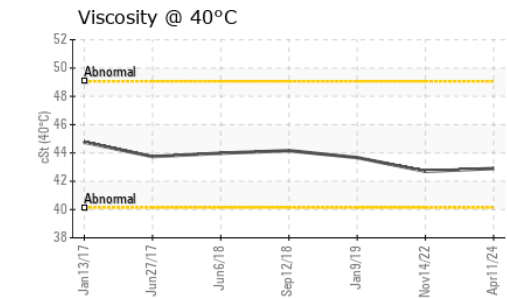
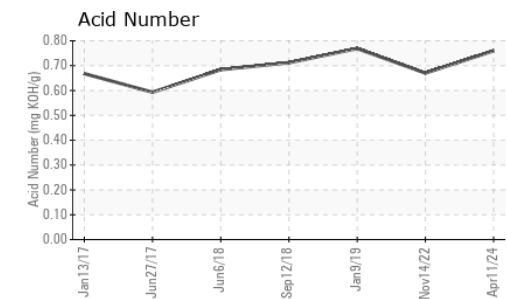
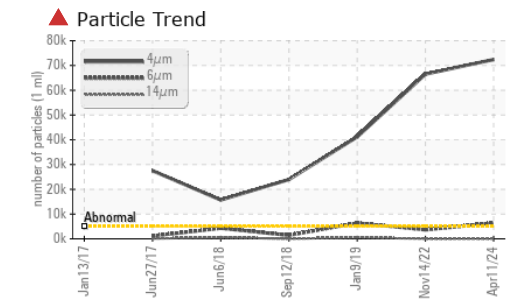
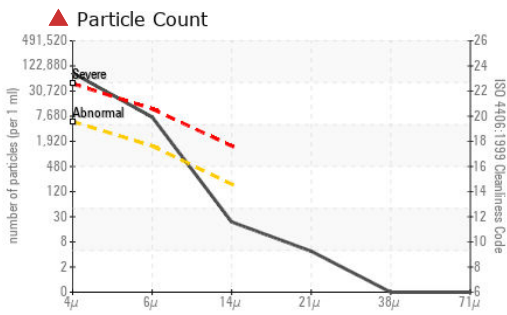
## CONTAMINATION

There is a high amount of silt (particulates < 14 microns in size) present in the oil.

## FLUID CONDITION

The AN level is acceptable for this fluid. The oil is still serviceable provided that the contaminant(s) can be reduced to acceptable levels.

| Test             | UOM      | Method       | Limit/Abn | Current            | History1    | History2    |
|------------------|----------|--------------|-----------|--------------------|-------------|-------------|
| Sample Number    |          | Client Info  |           | <b>DC0027602</b>   | DC0023700   | DCM2027258  |
| Sample Date      |          | Client Info  |           | <b>11 Apr 2024</b> | 14 Nov 2022 | 09 Jan 2019 |
| Machine Age      | hrs      | Client Info  |           | <b>9621</b>        | 8222        | 0           |
| Oil Age          | hrs      | Client Info  |           | <b>0</b>           | 8222        | 500         |
| Filter Age       | hrs      | Client Info  |           | <b>0</b>           | 0           | 0           |
| Oil Changed      |          | Client Info  |           | <b>Changed</b>     | N/A         | N/A         |
| Filter Changed   |          | Client Info  |           | <b>Changed</b>     | N/A         | N/A         |
| Sample Status    |          |              |           | <b>SEVERE</b>      | ABNORMAL    | ABNORMAL    |
| Iron             | ppm      | ASTM D5185m  | >20       | <b>7</b>           | 6           | 5           |
| Chromium         | ppm      | ASTM D5185m  | >10       | <b>2</b>           | 3           | 2           |
| Nickel           | ppm      | ASTM D5185m  | >10       | <b>0</b>           | 0           | <1          |
| Titanium         | ppm      | ASTM D5185m  |           | <b>&lt;1</b>       | <1          | 0           |
| Silver           | ppm      | ASTM D5185m  |           | <b>0</b>           | 0           | <1          |
| Aluminum         | ppm      | ASTM D5185m  | >10       | <b>4</b>           | 3           | 2           |
| Lead             | ppm      | ASTM D5185m  | >10       | <b>0</b>           | 0           | <1          |
| Copper           | ppm      | ASTM D5185m  | >75       | <b>5</b>           | 5           | 6           |
| Tin              | ppm      | ASTM D5185m  | >10       | <b>0</b>           | 0           | 0           |
| 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        |
| Silicon          | ppm      | ASTM D5185m  | >20       | <b>10</b>          | 8           | 5           |
| Potassium        | ppm      | ASTM D5185m  | >20       | <b>9</b>           | 0           | <1          |
| Water            |          | WC Method    | >0.1      | <b>NEG</b>         | NEG         | NEG         |
| Particles >4µm   |          | ASTM D7647   | >5000     | <b>▲ 72403</b>     | ▲ 66495     | ▲ 41173     |
| Particles >6µm   |          | ASTM D7647   | >1300     | <b>▲ 6377</b>      | ▲ 3615      | ▲ 6394      |
| Particles >14µm  |          | ASTM D7647   | >160      | <b>20</b>          | 9           | ▲ 539       |
| Particles >21µm  |          | ASTM D7647   | >40       | <b>4</b>           | 3           | ▲ 151       |
| Particles >38µm  |          | ASTM D7647   | >10       | <b>0</b>           | 0           | 9           |
| Particles >71µm  |          | ASTM D7647   | >3        | <b>0</b>           | 0           | 0           |
| Oil Cleanliness  |          | ISO 4406 (c) | >19/17/14 | <b>▲ 23/20/11</b>  | ▲ 23/19/10  | ▲ 23/20/16  |
| Silt             | scalar   | *Visual      | NONE      | <b>NONE</b>        | NONE        | NONE        |
| Debris           | scalar   | *Visual      | NONE      | <b>NONE</b>        | NONE        | VLITE       |
| 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         |
| Sodium           | ppm      | ASTM D5185m  |           | <b>5</b>           | 2           | 4           |
| Boron            | ppm      | ASTM D5185m  |           | <b>0</b>           | 1           | 2           |
| Barium           | ppm      | ASTM D5185m  |           | <b>0</b>           | 0           | 0           |
| Molybdenum       | ppm      | ASTM D5185m  |           | <b>0</b>           | <1          | <1          |
| Manganese        | ppm      | ASTM D5185m  |           | <b>0</b>           | <1          | 0           |
| Magnesium        | ppm      | ASTM D5185m  |           | <b>120</b>         | 160         | 146         |
| Calcium          | ppm      | ASTM D5185m  |           | <b>191</b>         | 213         | 208         |
| Phosphorus       | ppm      | ASTM D5185m  |           | <b>512</b>         | 586         | 593         |
| Zinc             | ppm      | ASTM D5185m  |           | <b>590</b>         | 723         | 730         |
| Sulfur           | ppm      | ASTM D5185m  |           | <b>1888</b>        | 2284        | 2285        |
| Acid Number (AN) | mg KOH/g | ASTM D8045   |           | <b>0.76</b>        | 0.67        | 0.769       |
| Visc @ 40°C      | cSt      | ASTM D445    |           | <b>42.9</b>        | 42.7        | 43.67       |



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : DC0027602  
**Lab Number** : 06151947  
**Unique Number** : 10982025  
**Test Package** : MOB 2  
**Received** : 17 Apr 2024  
**Tested** : 18 Apr 2024  
**Diagnosed** : 18 Apr 2024 - Wes Davis

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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)