

WEAR **ABNORMAL** CONTAMINATION **ABNORMAL** FLUID CONDITION NORMAL

History1

History2

Contracting 1DW310EXJNF716118 5111 Component Rear Differential

MOBIL MOBILFLUID 424 (--- GAL)

| RECOMMENDATION | Test | UOM | Method | Limit/Abn | Current |
|---|-----------------|--------|-------------|-----------|----------------|
| We recommend you service the filters on this component if applicable. | Sample Number | | Client Info | | WC0809011 |
| Resample at the next service interval to monitor. | Sample Date | la un | Client Info | | 18 May 2023 |
| | Machine Age | hrs | Client Info | | 772 |
| | Oil Age | hrs | Client Info | | 103 |
| | Filter Age | hrs | Client Info | | 0 |
| | Oil Changed | | Client Info | | Not Changd |
| | Filter Changed | | Client Info | | Not Changd |
| | Sample Status | | | ABNORMAL | |
| WEAR | Iron | ppm | ASTM D5185m | >500 | 235 |
| | Chromium | ppm | ASTM D5185m | >10 | 3 |
| The copper level is abnormal. All other component wear rates are normal. | Nickel | ppm | ASTM D5185m | >10 | 8 |
| nonnai. | Titanium | ppm | ASTM D5185m | | <1 |
| | Silver | ppm | ASTM D5185m | | 0 |
| | Aluminum | ppm | ASTM D5185m | >25 | 3 |
| | Lead | ppm | ASTM D5185m | >25 | 6 |
| | Copper | ppm | ASTM D5185m | >100 | 🔺 114 |
| | Tin | ppm | ASTM D5185m | >10 | 7 |
| | Vanadium | ppm | ASTM D5185m | | <1 |
| | White Metal | scalar | *Visual | NONE | MODER |
| | Yellow Metal | scalar | *Visual | NONE | NONE |
| CONTAMINATION | Silicon | ppm | ASTM D5185m | >75 | 13 |
| | Potassium | ppm | ASTM D5185m | >20 | 2 |
| There is a high amount of particulates present in the oil. High | Water | | WC Method | >.2 | NEG |
| concentration of visible dirt/debris present in the oil. | Particles >4µm | | ASTM D7647 | >20000 | ▲ 50067 |
| | Particles >6µm | | ASTM D7647 | >5000 | A 27274 |
| | Particles >14µm | | ASTM D7647 | >640 | 4642 |
| | Particles >21µm | | ASTM D7647 | >160 | 🔺 1564 |
| | Particles >38µm | | ASTM D7647 | >40 | A 241 |
| | Particles >71µm | | ASTM D7647 | >10 | 4 25 |

FLUID CONDITION

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

| White Metal | scalar | *Visual | NONE | MODER | |
|------------------|--------|--------------|-----------|----------|------|
| Yellow Metal | | | NONE | NONE | |
| Yellow Metal | scalar | *Visual | NONE | NONE | |
| Silicon | ppm | ASTM D5185m | >75 | 13 | |
| Potassium | ppm | ASTM D5185m | >20 | 2 | |
| Water | 1-1- | WC Method | >.2 | NEG | |
| Particles >4µm | | ASTM D7647 | >20000 | 50067 | |
| Particles >6µm | | ASTM D7647 | >5000 | 27274 | |
| Particles >14µm | | ASTM D7647 | >640 | 4642 | |
| Particles >21µm | | ASTM D7647 | >160 | 1564 | |
| Particles >38µm | | ASTM D7647 | >40 | 241 | |
| Particles >71µm | | ASTM D7647 | >10 | 25 | |
| Oil Cleanliness | | ISO 4406 (c) | >21/19/16 | 23/22/19 | |
| Silt | scalar | *Visual | NONE | NONE | |
| Debris | scalar | *Visual | NONE | HEAVY | |
| Sand/Dirt | scalar | *Visual | NONE | NONE | |
| Appearance | scalar | *Visual | NORML | NORML | |
| Odor | scalar | *Visual | NORML | NORML | |
| Emulsified Water | scalar | *Visual | >.2 | NEG | |
| | | | | | |
| Sodium | ppm | ASTM D5185m | | 19 | |
| Boron | ppm | ASTM D5185m | | 96 | |
| Barium | ppm | ASTM D5185m | | 0 | |
| Molybdenum | ppm | ASTM D5185m | | <1 | |
| Manganese | ppm | ASTM D5185m | | 62 | |
| Magnesium | ppm | ASTM D5185m | | 22 | |
| Calcium | ppm | ASTM D5185m | | 3620 | |
| Phosphorus | ppm | ASTM D5185m | | 1176 | |
| Zinc | ppm | ASTM D5185m | | 1495 | |
| Sulfur | ppm | ASTM D5185m | | 4093 | |
| Visc @ 40°C | cSt | ASTM D445 | 55 | 63.5 | |
| | | | | | |



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