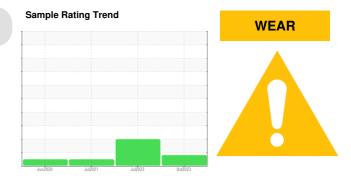


PROBLEM SUMMARY

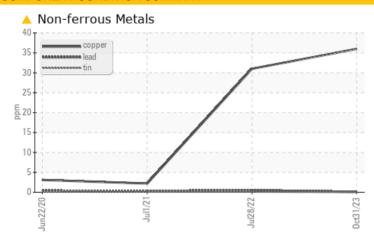
Area MT TEST CELL A4 - 2

Component **Hydraulic System**

MOBIL DTE 25 (30 GAL)



COMPONENT CONDITION SUMMARY



RECOMMENDATION

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

| PROBLEMATIC TEST RESULTS | | | | | | | | |
|--------------------------|-----|-------------|-----|-------------|-------------|--------|--|--|
| Sample Status | | | | ABNORMAL | ABNORMAL | NORMAL | | |
| Copper | ppm | ASTM D5185m | >20 | △ 36 | △ 31 | 2 | | |

Customer Id: MICGRE **Sample No.:** WC0810918 Lab Number: 05996646 Test Package: IND 2

To manage this report scan the QR code

To discuss the diagnosis or test data:

Don Baldridge +1 don.b505@comcast.net

To change component or sample information: Customer Service +1 1-800-237-1369 customerservice@wearcheck.com

RECOMMENDED ACTIONS

There are no recommended actions for this sample.

HISTORICAL DIAGNOSIS

28 Jul 2022 Diag: Don Baldridge

WEAR



No corrective action is recommended at this time. Resample at the next service interval to monitor. The copper level is abnormal. All other component wear rates are normal. There is a high amount of silt (particulates < 14 microns in size) present in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.



01 Jul 2021 Diag: Don Baldridge

NORMAL



Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the oil. The amount and size of particulates present in the system are acceptable. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.



22 Jun 2020 Diag: Don Baldridge

NORMAL



Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the oil. The amount and size of particulates present in the system are acceptable. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.



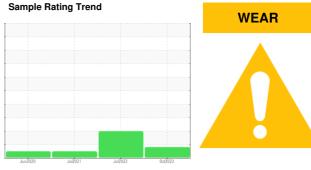


OIL ANALYSIS REPORT

Area MT TEST CELL A4 - 2

Hydraulic System

MOBIL DTE 25 (30 GAL)



DIAGNOSIS

Recommendation

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

The copper level is abnormal. All other component wear rates are normal.

Contamination

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

Fluid Condition

The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

| | | Jun202 | 0 Jul2021 | Jul2022 0 | ct2023 | |
|------------------|----------|--------------|------------|-------------|--------------|-------------|
| SAMPLE INFORM | MATION | method | limit/base | current | history1 | history2 |
| Sample Number | | Client Info | | WC0810918 | WC0611433 | WC0502681 |
| Sample Date | | Client Info | | 31 Oct 2023 | 28 Jul 2022 | 01 Jul 2021 |
| Machine Age | hrs | Client Info | | 0 | 0 | 0 |
| Oil Age | hrs | Client Info | | 0 | 0 | 0 |
| Oil Changed | | Client Info | | Not Changd | Not Changd | Not Changd |
| Sample Status | | | | ABNORMAL | ABNORMAL | NORMAL |
| WEAR METALS | | method | limit/base | current | history1 | history2 |
| Iron | ppm | ASTM D5185m | >20 | 7 | 7 | <1 |
| Chromium | ppm | ASTM D5185m | >20 | <1 | 0 | 0 |
| Nickel | ppm | ASTM D5185m | >20 | <1 | 0 | <1 |
| Titanium | ppm | ASTM D5185m | | 0 | 0 | 0 |
| Silver | ppm | ASTM D5185m | | 0 | 0 | 0 |
| Aluminum | ppm | ASTM D5185m | >20 | <1 | <1 | 0 |
| Lead | ppm | ASTM D5185m | >20 | <1 | <1 | <1 |
| Copper | ppm | ASTM D5185m | >20 | 4 36 | △ 31 | 2 |
| Tin | ppm | ASTM D5185m | >20 | 0 | <1 | <1 |
| Antimony | ppm | ASTM D5185m | | | | 0 |
| Vanadium | ppm | ASTM D5185m | | 0 | 0 | 0 |
| Cadmium | ppm | ASTM D5185m | | <1 | <1 | 0 |
| ADDITIVES | | method | limit/base | current | history1 | history2 |
| Boron | ppm | ASTM D5185m | | 0 | <1 | <1 |
| Barium | ppm | ASTM D5185m | | <1 | 0 | 0 |
| Molybdenum | ppm | ASTM D5185m | | 0 | 0 | <1 |
| Manganese | ppm | ASTM D5185m | | 0 | 0 | 0 |
| Magnesium | ppm | ASTM D5185m | | 1 | 1 | <1 |
| Calcium | ppm | ASTM D5185m | | 100 | 100 | 126 |
| Phosphorus | ppm | ASTM D5185m | | 402 | 419 | 476 |
| Zinc | ppm | ASTM D5185m | | 626 | 631 | 695 |
| Sulfur | ppm | ASTM D5185m | | 6096 | 6874 | 5539 |
| CONTAMINANTS | ; | method | limit/base | current | history1 | history2 |
| Silicon | ppm | ASTM D5185m | >15 | 1 | 1 | 0 |
| Sodium | ppm | ASTM D5185m | | 0 | 0 | <1 |
| Potassium | ppm | ASTM D5185m | >20 | 2 | 1 | 0 |
| FLUID CLEANLIN | IESS | method | limit/base | current | history1 | history2 |
| Particles >4µm | | ASTM D7647 | >640 | 252 | <u> </u> | 426 |
| Particles >6µm | | ASTM D7647 | >160 | 55 | △ 232 | 103 |
| Particles >14μm | | ASTM D7647 | >20 | 7 | 17 | 10 |
| Particles >21µm | | ASTM D7647 | >4 | 2 | 2 | 3 |
| Particles >38μm | | ASTM D7647 | >3 | 0 | 0 | 0 |
| Particles >71µm | | ASTM D7647 | >3 | 0 | 0 | 0 |
| Oil Cleanliness | | ISO 4406 (c) | >16/14/11 | 15/13/10 | ▲ 18/15/11 | 16/14/10 |
| FLUID DEGRADA | ATION | method | limit/base | current | history1 | history2 |
| Acid Number (AN) | mg KOH/g | ASTM D8045 | | 0.58 | 0.68 | 0.854 |



OIL ANALYSIS REPORT

