

OIL ANALYSIS REPORT

[604063211 SR] Machine Id CRMB REFINER 3 (S/N 20059858)

Component Hydraulic System

AW HYDRAULIC OIL ISO 68 (--- GAL)

DIAGNOSIS

Recommendation

We recommend you service the filters on this component. Resample at the next service interval to monitor.

Wear

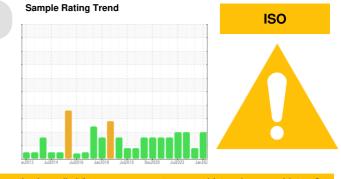
All component wear rates are normal.

Contamination

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

Fluid Condition

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



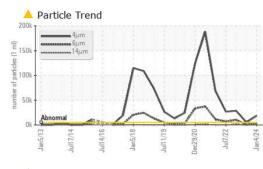
| SAMPLE INFORM | MATION | method | limit/base | current | history1 | history2 |
|-------------------|----------|--------------|------------|-------------------|-------------|-------------|
| Sample Number | | Client Info | | WC0854124 | WC0562495 | WC0562116 |
| Sample Date | | Client Info | | 04 Jan 2024 | 06 Jul 2023 | 07 Jan 2023 |
| 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 | ATTENTION | ABNORMAL |
| CONTAMINATIO | N | method | limit/base | current | history1 | history2 |
| Water | | WC Method | >0.05 | NEG | NEG | NEG |
| WEAR METALS | | method | limit/base | current | history1 | history2 |
| Iron | ppm | ASTM D5185m | >20 | 8 | 2 | 6 |
| Chromium | ppm | ASTM D5185m | >20 | 0 | 0 | 0 |
| Nickel | ppm | ASTM D5185m | >20 | 0 | 0 | 0 |
| Titanium | ppm | ASTM D5185m | | 0 | <1 | 0 |
| Silver | ppm | ASTM D5185m | | 0 | 0 | 0 |
| Aluminum | ppm | ASTM D5185m | >20 | <1 | <1 | <1 |
| Lead | ppm | ASTM D5185m | >20 | 0 | 0 | 0 |
| Copper | ppm | ASTM D5185m | | 0 | <1 | <1 |
| Tin | ppm | ASTM D5185m | >20 | 0 | 0 | 0 |
| Vanadium | ppm | ASTM D5185m | | 0 | <1 | 0 |
| Cadmium | ppm | ASTM D5185m | | 0 | 0 | 0 |
| ADDITIVES | | method | limit/base | current | history1 | history2 |
| Boron | ppm | ASTM D5185m | 5 | 0 | 0 | 0 |
| Barium | ppm | ASTM D5185m | 5 | 0 | 0 | 0 |
| Molybdenum | ppm | ASTM D5185m | 5 | 0 | <1 | 0 |
| Manganese | ppm | ASTM D5185m | | <1 | <1 | 0 |
| Magnesium | ppm | ASTM D5185m | 25 | 1 | 1 | 0 |
| Calcium | ppm | ASTM D5185m | 200 | 2 | 0 | 2 |
| Phosphorus | ppm | ASTM D5185m | 300 | 205 | 212 | 205 |
| Zinc | ppm | ASTM D5185m | 370 | 11 | 0 | 19 |
| Sulfur | ppm | ASTM D5185m | 2500 | 1874 | 2308 | 2236 |
| CONTAMINANTS | 6 | method | limit/base | current | history1 | history2 |
| Silicon | ppm | ASTM D5185m | >15 | 1 | 2 | 4 |
| Sodium | ppm | ASTM D5185m | | 0 | 0 | 0 |
| Potassium | ppm | ASTM D5185m | >20 | <1 | 0 | 0 |
| FLUID CLEANLINESS | | method | limit/base | current | history1 | history2 |
| Particles >4µm | | ASTM D7647 | >5000 | A 18671 | ▲ 5443 | ▲ 28596 |
| Particles >6µm | | ASTM D7647 | >1300 | <u> </u> | 743 | 10339 |
| Particles >14µm | | ASTM D7647 | >160 | <u> </u> | 38 | <u> </u> |
| Particles >21µm | | ASTM D7647 | >40 | <u> </u> | 11 | <u> </u> |
| Particles >38µm | | ASTM D7647 | >10 | 7 | 1 | 7 |
| Particles >71µm | | ASTM D7647 | >3 | 0 | 0 | 0 |
| Oil Cleanliness | | ISO 4406 (c) | >19/17/14 | A 21/19/14 | ▲ 20/17/12 | ▲ 22/21/17 |
| FLUID DEGRADA | ATION | method | limit/base | current | history1 | history2 |
| Acid Number (AN) | mg KOH/g | ASTM D8045 | 0.57 | 0.81 | 0.83 | 0.81 |
| 0.05.05) Devis 1 | | | | Contract/l or | | |

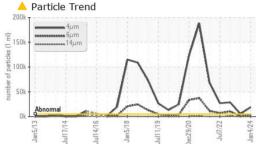
Report Id: MARSCHI [WUSCAR] 06064316 (Generated: 01/21/2024 10:35:05) Rev: 1

Contact/Location: TONY FIORE - MARSCHI

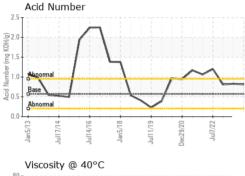


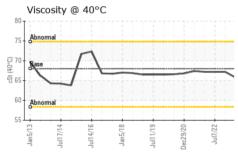
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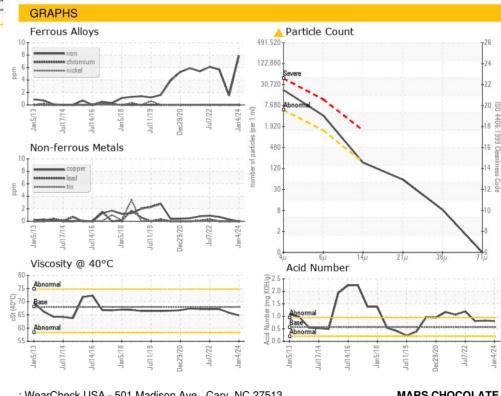


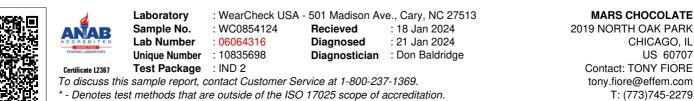




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Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

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