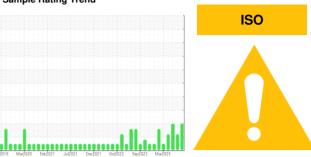


OIL ANALYSIS REPORT

Sample Rating Trend



PRESS Machine Id TOP TOOL LOCK

Tank Hydraulic System

Fluid ECOSAFE FR-46 (200 GAL)

DIAGNOSIS

Recommendation

We recommend you service the filters on this component if applicable. 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.

| | | t2019 Mar20 | 20 Feb2021 Jul2021 | Dec2021 Oct2022 Sep2023 1 | /lar2024 | |
|-----------------|--------|--------------|--------------------|---------------------------|-------------------|-------------------|
| SAMPLE INFORM | MATION | method | limit/base | current | history1 | history2 |
| Sample Number | | Client Info | | WC0937031 | WC0937016 | WC0905616 |
| Sample Date | | Client Info | | 31 May 2024 | 09 May 2024 | 21 Apr 2024 |
| Machine Age | hrs | Client Info | | 0 | 0 | 0 |
| Oil Age | hrs | Client Info | | 0 | 0 | 0 |
| Oil Changed | | Client Info | | N/A | N/A | N/A |
| Sample Status | | | | ABNORMAL | ABNORMAL | ABNORMAL |
| CONTAMINATION | ١ | 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 | 2 | 2 | 1 |
| Chromium | ppm | ASTM D5185m | >20 | <1 | <1 | 0 |
| Nickel | ppm | ASTM D5185m | >20 | 0 | 0 | 0 |
| Titanium | ppm | ASTM D5185m | | 0 | <1 | <1 |
| Silver | ppm | ASTM D5185m | | 0 | 0 | 0 |
| Aluminum | ppm | ASTM D5185m | >20 | 2 | 2 | <1 |
| Lead | ppm | ASTM D5185m | >20 | 0 | 0 | 0 |
| Copper | ppm | ASTM D5185m | >20 | <1 | 1 | <1 |
| Tin | ppm | ASTM D5185m | >20 | <1 | <1 | 1 |
| Vanadium | ppm | ASTM D5185m | | <1 | <1 | <1 |
| Cadmium | ppm | ASTM D5185m | | 0 | <1 | 0 |
| ADDITIVES | | method | limit/base | current | history1 | history2 |
| Boron | ppm | ASTM D5185m | | <1 | 0 | <1 |
| Barium | ppm | ASTM D5185m | | 0 | 0 | 0 |
| Molybdenum | ppm | ASTM D5185m | | 0 | 0 | 0 |
| Manganese | ppm | ASTM D5185m | | 0 | 0 | 0 |
| Magnesium | ppm | ASTM D5185m | | <1 | <1 | 1 |
| Calcium | ppm | ASTM D5185m | | 4 | 8 | 2 |
| Phosphorus | ppm | ASTM D5185m | | 448 | 624 | 606 |
| Zinc Sulfur | ppm | ASTM D5185m | | 25 2576 | 18 | 12 |
| | ppm | ASTM D5185m | | | 3130 | 3805 |
| CONTAMINANTS | | method | limit/base | current | history1 | history2 |
| Silicon | ppm | ASTM D5185m | >15 | 2 | 2 | 2 |
| Sodium | ppm | ASTM D5185m | | 6 | 1 | 0 |
| Potassium | ppm | ASTM D5185m | | 1 | 2 | <1 |
| FLUID CLEANLIN | ESS | method | limit/base | current | history1 | history2 |
| Particles >4µm | | ASTM D7647 | >5000 | <u>^</u> 57013 | <u>17649</u> | ▲ 10883 |
| Particles >6µm | | ASTM D7647 | >1300 | <u> </u> | ▲ 3247 | ▲ 3286 |
| Particles >14µm | | ASTM D7647 | >160 | <u>^</u> 786 | 155 | <u>^</u> 241 |
| Particles >21µm | | ASTM D7647 | | <u> </u> | 33 | <u>4</u> 7 |
| Particles >38µm | | ASTM D7647 | >10 | 8 | 1 | 1 |
| Particles >71μm | | ASTM D7647 | | 0 | 0 | 0 |
| Oil Cleanliness | | ISO 4406 (c) | >19/17/14 | <u>A</u> 23/21/17 | <u>^</u> 21/19/14 | <u>^</u> 21/19/15 |
| FLUID DEGRADA | TION | method | limit/base | current | history1 | history2 |

Acid Number (AN)

mg KOH/g ASTM D8045

0045

.

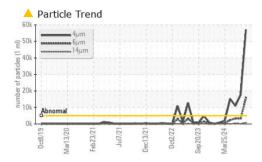
1.72

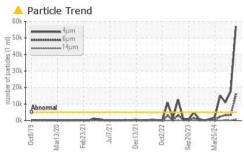
1.78

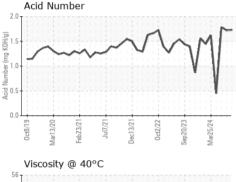
Contact/Location: MIKE TODD - ALLMONSAF

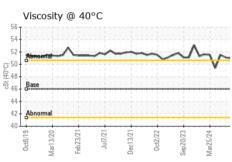


OIL ANALYSIS REPORT









| VISUAL | | method | limit/base | current | history1 | history2 |
|-------------------------|--------|---------|------------|---------|----------|----------|
| White Metal | scalar | *Visual | NONE | NONE | NONE | NONE |
| Yellow Metal | scalar | *Visual | NONE | NONE | NONE | NONE |
| Precipitate | scalar | *Visual | NONE | NONE | NONE | NONE |
| Silt | scalar | *Visual | NONE | NONE | NONE | NONE |
| Debris | scalar | *Visual | NONE | NONE | NONE | NONE |
| Sand/Dirt | scalar | *Visual | NONE | NONE | NONE | NONE |
| Appearance | scalar | *Visual | NORML | NORML | NORML | NORML |
| Odor | scalar | *Visual | NORML | NORML | NORML | NORML |
| Emulsified Water | scalar | *Visual | >0.05 | NEG | NEG | NEG |
| Free Water | scalar | *Visual | | NEG | NEG | NEG |
| FLUID PROPERTIES | | method | limit/base | current | history1 | history2 |

| /isc @ 40°C | cSt | ASTM D445 46 | 51.0 | 51.1 | 51.5 |
|-------------|-----|--------------|------|------|------|
|-------------|-----|--------------|------|------|------|

SAMPLE IMAGES

method

limit/base

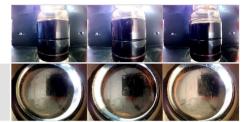
current

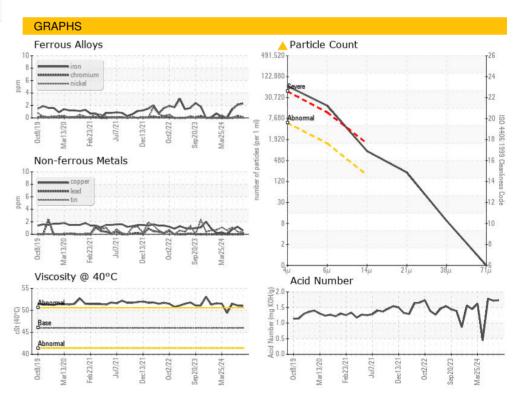
history1

history2

Color

Bottom









Certificate 12367

Laboratory Sample No.

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Lab Number : 06199090 Unique Number : 11061213

Test Package : IND 2

: WC0937031

Received : 04 Jun 2024 **Tested** : 06 Jun 2024

Diagnosed : 06 Jun 2024 - Jonathan Hester

Contact: MIKE TODD mike.todd@atimetals.com T:

3750 ALLOY WAY

MONROE, NC

US 28110

F:

ALLVAC SAF CONDITIONING

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)