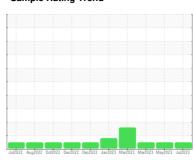


OIL ANALYSIS REPORT

Sample Rating Trend







18130B/E74

Component

Hydraulic System

AW HYDRAULIC OIL ISO 46 (--- GAL)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The system and fluid cleanliness is acceptable.

Fluid Condition

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

| Juzi022 Aug/2022 Oezi022 Oezi022 Dezi022 Jan/2023 Mazi023 Mazi023 Mazi023 Juzi023 | | | | | | |
|---|--------|--------------|------------|-------------|-------------|-------------|
| SAMPLE INFORM | MATION | method | limit/base | current | history1 | history2 |
| Sample Number | | Client Info | | PTK0004706 | PTK0004080 | PTK0003985 |
| Sample Date | | Client Info | | 14 Jul 2023 | 24 May 2023 | 30 Mar 2023 |
| 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 | | | | NORMAL | NORMAL | NORMAL |
| WEAR METALS | | method | limit/base | current | history1 | history2 |
| Iron | ppm | ASTM D5185m | >20 | 0 | <1 | 0 |
| Chromium | ppm | ASTM D5185m | >20 | 0 | 0 | 0 |
| Nickel | ppm | ASTM D5185m | >20 | 0 | 0 | 0 |
| Titanium | ppm | ASTM D5185m | | <1 | 0 | 0 |
| Silver | ppm | ASTM D5185m | | 0 | 0 | 0 |
| Aluminum | ppm | ASTM D5185m | >20 | 0 | 0 | <1 |
| Lead | ppm | ASTM D5185m | >20 | 0 | 0 | 0 |
| Copper | ppm | ASTM D5185m | >20 | 11 | 10 | 8 |
| Tin | ppm | ASTM D5185m | >20 | 0 | 0 | 0 |
| Vanadium | ppm | ASTM D5185m | | <1 | 0 | 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 | 2 | 0 |
| Molybdenum | ppm | ASTM D5185m | 5 | 0 | 0 | 0 |
| Manganese | ppm | ASTM D5185m | | <1 | 0 | <1 |
| Magnesium | ppm | ASTM D5185m | 25 | 2 | <1 | 0 |
| Calcium | ppm | ASTM D5185m | 200 | 26 | 28 | 23 |
| Phosphorus | ppm | ASTM D5185m | 300 | 293 | 281 | 267 |
| Zinc | ppm | ASTM D5185m | 370 | 334 | 341 | 320 |
| Sulfur | ppm | ASTM D5185m | 2500 | 811 | 750 | 406 |
| CONTAMINANTS | | method | limit/base | current | history1 | history2 |
| Silicon | ppm | ASTM D5185m | >15 | <1 | 0 | 0 |
| Sodium | ppm | ASTM D5185m | | <1 | 0 | 0 |
| Potassium | ppm | ASTM D5185m | >20 | 0 | 0 | 0 |
| FLUID CLEANLIN | ESS | method | limit/base | current | history1 | history2 |
| Particles >4µm | | ASTM D7647 | >5000 | 205 | 315 | 171 |
| Particles >6µm | | ASTM D7647 | >1300 | 59 | 85 | 51 |
| Particles >14µm | | ASTM D7647 | >160 | 10 | 9 | 6 |
| Particles >21µm | | ASTM D7647 | >40 | 4 | 3 | 1 |
| Particles >38µm | | ASTM D7647 | >10 | 0 | 0 | 0 |
| Particles >71μm | | ASTM D7647 | >3 | 0 | 0 | 0 |
| Oil Cleanliness | | ISO 4406 (c) | >19/17/14 | 15/13/10 | 15/14/10 | 15/13/10 |
| FLUID DEGRADA | TION | method | limit/base | current | history1 | history2 |
| | | | | | | |

Acid Number (AN)

mg KOH/g ASTM D8045 0.57

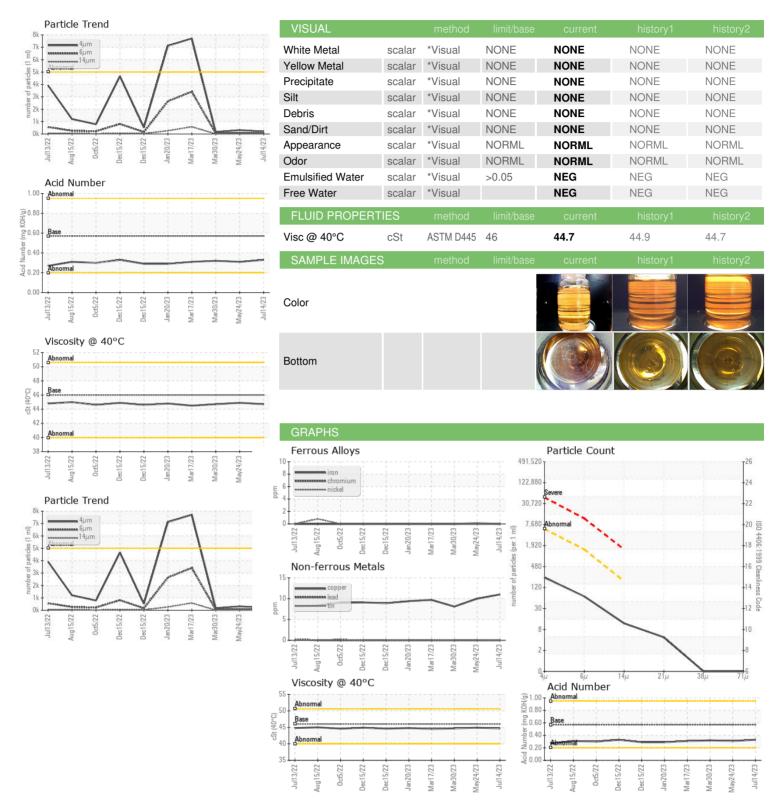
0.31

0.33

0.32



OIL ANALYSIS REPORT







Certificate L2367

Laboratory Sample No.

Lab Number **Unique Number**

: 05930831 : 10616102 Test Package : MOB 2

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : 22 Aug 2023 : PTK0004706 Received : 23 Aug 2023 Diagnosed

: Wes Davis Diagnostician

To discuss this sample report, contact Customer Service at 1-800-237-1369.

US 55016 Contact: ELISE MARBLE emarble@northstarsheets.com T: (651)888-8506

NORTH STAR SHEETS

COTTAGE GROVE, MN

7550 91ST ST S

* - 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)

F: