

OIL ANALYSIS REPORT

Sample Rating Trend

NORMAL



CAPL - HYDRAULIC CAPL ENTRY HYRDAULIC UNIT (S/N 16-4100-1010)

Hvdraulic System

AW HYDRAULIC OIL ISO 46 (--- QTS)

| Fluid | - | | | _ | • | | | |
|-------|---|------------|---|---|---|----|--------|--------|
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DIAGNOSIS Recommendation

Little or no information is provided as to the component and lubricant being tested. Recommendations are therefore generic in nature and may not apply to the current application. Please forward information as to equipment type, reservoir capacity, lubricant type and any pertinent information to allow for a more accurate assessment. Resample at the next service interval to monitor. NOTE: Please provide information regarding reservoir capacity, filter type and micron rating with next sample. Please specify the brand, type, and viscosity of the oil on your next sample.

Wear

All component wear rates are normal.

Contamination

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

Fluid Condition

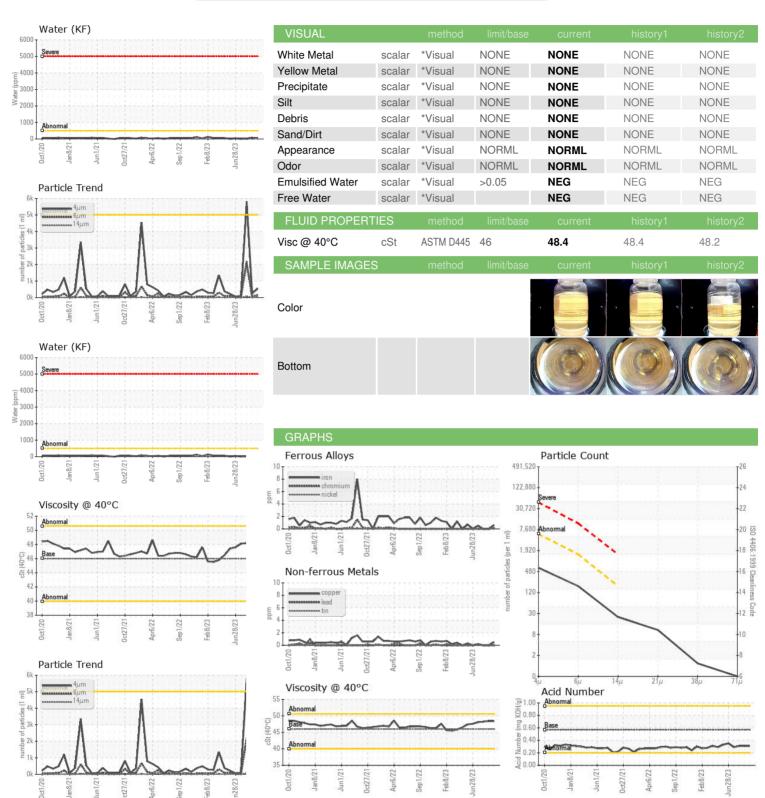
The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.



| Sample Number | | Client Info | | RP0038616 | RP0038536 | RP0035569 |
|------------------|----------|--------------|------------|-------------|-------------|-----------------|
| Sample Date | | Client Info | | 03 Oct 2023 | 27 Sep 2023 | 29 Aug 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 | ATTENTION |
| WEAR METALS | | method | limit/base | current | history1 | history2 |
| Iron | ppm | ASTM D5185m | >20 | <1 | 0 | 0 |
| Chromium | ppm | ASTM D5185m | >20 | <1 | 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 | <1 | 0 | 0 |
| 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 | 0 | 0 |
| Molybdenum | ppm | ASTM D5185m | 5 | <1 | 0 | 0 |
| Manganese | ppm | ASTM D5185m | | <1 | 0 | 0 |
| Magnesium | ppm | ASTM D5185m | 25 | 0 | 4 | 0 |
| Calcium | ppm | ASTM D5185m | 200 | 48 | 57 | 49 |
| Phosphorus | ppm | ASTM D5185m | 300 | 337 | 364 | 337 |
| Zinc | ppm | ASTM D5185m | 370 | 413 | 476 | 411 |
| CONTAMINANTS | | method | limit/base | current | history1 | history2 |
| Silicon | ppm | ASTM D5185m | >15 | 2 | 2 | 1 |
| Sodium | ppm | ASTM D5185m | | <1 | 0 | <1 |
| Potassium | ppm | ASTM D5185m | >20 | <1 | 0 | 0 |
| Water | % | ASTM D6304 | >0.05 | 0.003 | 0.007 | 0.001 |
| ppm Water | ppm | ASTM D6304 | >500 | 38.6 | 72.7 | 9.3 |
| FLUID CLEANLIN | ESS | method | limit/base | current | history1 | history2 |
| Particles >4µm | | ASTM D7647 | >5000 | 539 | 248 | <u></u> 5791 |
| Particles >6μm | | ASTM D7647 | >1300 | 161 | 37 | <u>▲</u> 2124 |
| Particles >14μm | | ASTM D7647 | >160 | 21 | 7 | 67 |
| Particles >21µm | | ASTM D7647 | >40 | 9 | 2 | 14 |
| Particles >38μm | | ASTM D7647 | >10 | 1 | 0 | 1 |
| Particles >71μm | | ASTM D7647 | >3 | 0 | 0 | 0 |
| Oil Cleanliness | | ISO 4406 (c) | >19/17/14 | 16/15/12 | 15/12/10 | <u>20/18/13</u> |
| FLUID DEGRADA | TION | method | limit/base | current | history1 | history2 |
| Acid Number (AN) | mg KOH/g | ASTM D8045 | 0.57 | 0.31 | 0.31 | 0.31 |



OIL ANALYSIS REPORT







Certificate L2367

Laboratory Sample No. Lab Number

Unique Number

: RP0038616 : 05968994 : 10675545 Test Package : IND 2

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : 04 Oct 2023 Received

: 05 Oct 2023 Diagnosed Diagnostician : Wes Davis

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)

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