

OIL ANALYSIS REPORT

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

Hydraulic System

AW HYDRAULIC OIL ISO 46 (--- QTS)

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

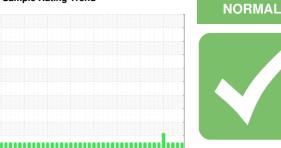
All component wear rates are normal.

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 Rating Trend

| SAMPLE INFORM | IATION | method | limit/base | current | history1 | history2 |
|------------------|---------------|--------------|------------|-------------|-------------|-------------|
| Sample Number | | Client Info | | RP0038055 | RP0035394 | RP0038616 |
| Sample Date | | Client Info | | 05 Dec 2023 | 07 Nov 2023 | 03 Oct 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 | <1 | 0 | <1 |
| Chromium | ppm | ASTM D5185m | >20 | <1 | 0 | <1 |
| Nickel | ppm | ASTM D5185m | >20 | 0 | 0 | 0 |
| Titanium | ppm | ASTM D5185m | | 0 | 0 | <1 |
| Silver | ppm | ASTM D5185m | | 0 | 0 | 0 |
| Aluminum | ppm | ASTM D5185m | >20 | 2 | 0 | 0 |
| Lead | ppm | ASTM D5185m | >20 | 0 | 0 | 0 |
| Copper | ppm | ASTM D5185m | >20 | <1 | 0 | <1 |
| Tin | ppm | ASTM D5185m | >20 | 0 | 0 | 0 |
| Vanadium | ppm | ASTM D5185m | | 0 | 0 | <1 |
| 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 | ۰ <1 | <1 | <1 |
| Manganese | ppm | ASTM D5185m | 5 | 0 | 0 | <1 |
| Magnesium | ppm | ASTM D5185m | 25 | ۰ <1 | 0 | 0 |
| Calcium | ppm | ASTM D5185m | 200 | 52 | 37 | 48 |
| Phosphorus | ppm | ASTM D5185m | 300 | 322 | 282 | 337 |
| Zinc | ppm | ASTM D5185m | 370 | 424 | 429 | 413 |
| | | | | | | |
| CONTAMINANTS | | method | limit/base | current | history1 | history2 |
| Silicon | ppm | ASTM D5185m | >15 | 2 | 2 | 2 |
| Sodium | ppm | ASTM D5185m | | 0 | <1 | <1 |
| Potassium | ppm | ASTM D5185m | >20 | <1 | 0 | <1 |
| Water | % | ASTM D6304 | | 0.003 | 0.002 | 0.003 |
| ppm Water | ppm | ASTM D6304 | >500 | 34 | 24.2 | 38.6 |
| FLUID CLEANLIN | IESS | method | limit/base | current | history1 | history2 |
| Particles >4µm | | ASTM D7647 | >5000 | 98 | 230 | 539 |
| Particles >6µm | | ASTM D7647 | >1300 | 25 | 47 | 161 |
| Particles >14µm | | ASTM D7647 | >160 | 4 | 7 | 21 |
| Particles >21µm | | ASTM D7647 | >40 | 2 | 3 | 9 |
| Particles >38µm | | ASTM D7647 | >10 | 0 | 0 | 1 |
| Particles >71µm | | ASTM D7647 | >3 | 0 | 0 | 0 |
| Oil Cleanliness | | ISO 4406 (c) | >19/17/14 | 14/12/9 | 15/13/10 | 16/15/12 |
| FLUID DEGRADA | TION | method | limit/base | current | history1 | history2 |
| Acid Number (AN) | mg KOH/g | ASTM D8045 | 0.57 | 0.27 | 0.32 | 0.31 |



Water (KF)

6000

> 100 Ab

> > 52 50

> > 48

(J-46 44 44 Ba

42

40

38

6

î 1 5 5 5 1

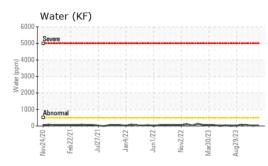
sa 4k

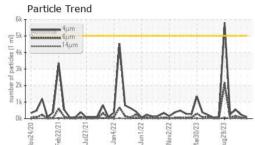
itied 3k

3 2k

Nov24/20

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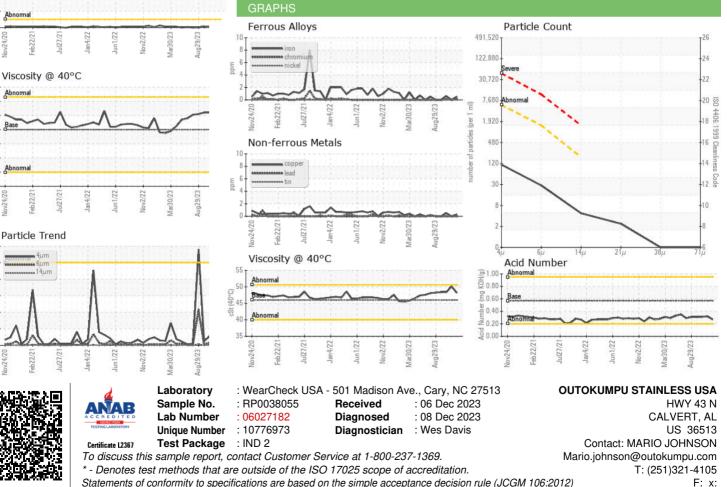






Bottom





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