

OIL ANALYSIS REPORT

PARTS LVD PRT-PBR-07 (S/N 25833)

Hydraulic System

AW HYDRAULIC OIL ISO 46 (--- GAL)

Sample Rating Trend



Recommendation

Resample at the next service interval to monitor.

All component wear rates are normal.

Contamination

The amount and size of particulates present in the system are acceptable. There is no indication of any contamination in the oil.

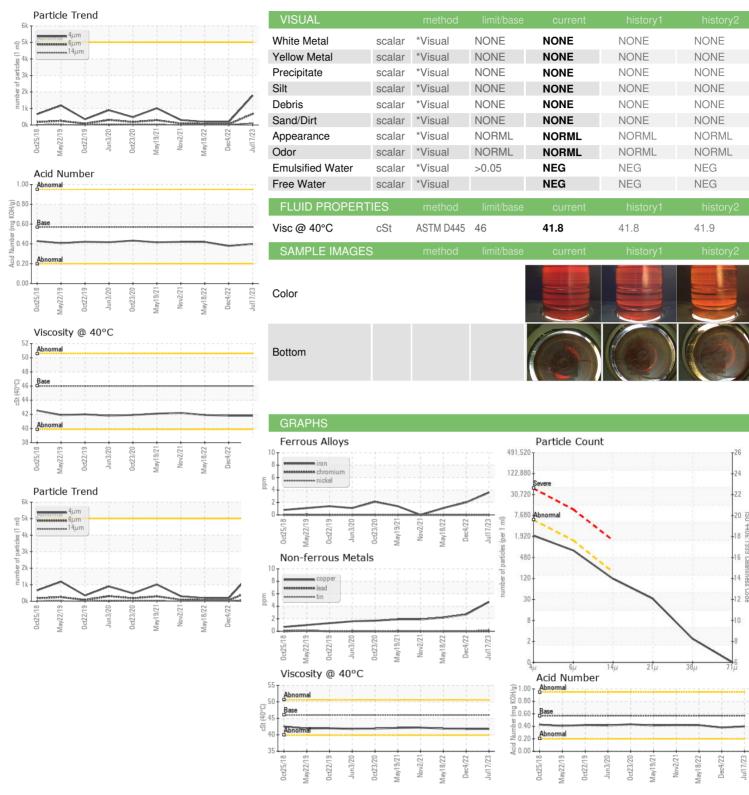
Fluid Condition

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

| SAMPLE INFORM | /ATION | method | limit/base | current | history1 | history2 |
|---------------------------|----------|---------------|------------|-------------|-------------|-------------|
| | <i></i> | Client Info | — mm/base | WC0830447 | WC0753854 | WC0696329 |
| Sample Number Sample Date | | Client Info | | 17 Jul 2023 | 04 Dec 2022 | 18 May 2022 |
| Machine Age | hrs | Client Info | | 0 | 04 Dec 2022 | 0 |
| Oil Age | hrs | Client Info | | 0 | 0 | 0 |
| Oil Changed | 1113 | Client Info | | N/A | N/A | N/A |
| Sample Status | | Olletti Ittio | | NORMAL | NORMAL | NORMAL |
| | | | | | | |
| WEAR METALS | | method | limit/base | current | history1 | history2 |
| Iron | ppm | ASTM D5185m | >20 | 4 | 2 | 1 |
| Chromium | ppm | ASTM D5185m | >20 | 0 | 0 | 0 |
| Nickel | ppm | ASTM D5185m | >20 | 0 | 0 | 0 |
| Titanium | ppm | ASTM D5185m | | 0 | 0 | 0 |
| Silver | ppm | ASTM D5185m | | <1 | 0 | <1 |
| Aluminum | ppm | ASTM D5185m | >20 | 0 | 0 | 0 |
| Lead | ppm | ASTM D5185m | >20 | 0 | 0 | 0 |
| Copper | ppm | ASTM D5185m | >20 | 5 | 3 | 2 |
| Tin | ppm | ASTM D5185m | >20 | <1 | 0 | 0 |
| Antimony | ppm | ASTM D5185m | | | | |
| Vanadium | ppm | ASTM D5185m | | 0 | 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 | 1 | 0 | 0 |
| Molybdenum | ppm | ASTM D5185m | 5 | 0 | 0 | 0 |
| Manganese | ppm | ASTM D5185m | | 0 | 0 | 0 |
| Magnesium | ppm | ASTM D5185m | 25 | <1 | 0 | 0 |
| Calcium | ppm | ASTM D5185m | 200 | 60 | 42 | 42 |
| Phosphorus | ppm | ASTM D5185m | 300 | 518 | 385 | 393 |
| Zinc | ppm | ASTM D5185m | 370 | 662 | 488 | 485 |
| Sulfur | ppm | ASTM D5185m | 2500 | 3644 | 2926 | 2159 |
| CONTAMINANTS | ; | method | limit/base | current | history1 | history2 |
| Silicon | ppm | ASTM D5185m | >15 | 2 | <1 | 2 |
| Sodium | ppm | ASTM D5185m | | 0 | <1 | 0 |
| Potassium | ppm | ASTM D5185m | >20 | <1 | 0 | 0 |
| FLUID CLEANLIN | IESS | method | limit/base | current | history1 | history2 |
| Particles >4µm | | ASTM D7647 | >5000 | 1784 | 189 | 190 |
| Particles >6µm | | ASTM D7647 | >1300 | 675 | 54 | 66 |
| Particles >14µm | | ASTM D7647 | >160 | 104 | 5 | 12 |
| Particles >21µm | | ASTM D7647 | >40 | 28 | 2 | 4 |
| Particles >38µm | | ASTM D7647 | >10 | 2 | 0 | 0 |
| Particles >71µm | | ASTM D7647 | >3 | 0 | 0 | 0 |
| Oil Cleanliness | | ISO 4406 (c) | >19/17/14 | 18/17/14 | 15/13/10 | 15/13/11 |
| FLUID DEGRADA | ATION _ | method | limit/base | current | history1 | history2 |
| Acid Number (AN) | mg KOH/g | ASTM D8045 | 0.57 | 0.40 | 0.38 | 0.42 |



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Certificate L2367

Laboratory Sample No.

Lab Number **Unique Number**

: 10564588 Test Package : PLANT

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : WC0830447 Received : 20 Jul 2023 : 05903232 Diagnosed : 24 Jul 2023

Diagnostician

: Angela Borella

Contact: TODD PITMAN todd.pitman@lundboats.com T:

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)

F:

LUND BOATS

US 56567

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