

OIL ANALYSIS REPORT

Sample Rating Trend







CATERPILLAR D10T 15105049 (S/N CATOD10TCRJG01495)

Hydraulic System

ROYAL PURPLE SYNDRAULIC 46 (--- GAL)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Wear

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 | MATION | method | limit/base | current | history1 | history2 |
|------------------|----------|--------------|------------|-------------|-------------|-------------|
| Sample Number | | Client Info | | RP0036994 | RP0036990 | RP0037374 |
| Sample Date | | Client Info | | 25 Mar 2024 | 27 Feb 2024 | 23 Jan 2024 |
| Machine Age | hrs | Client Info | | 26857 | 26410 | 25939 |
| Oil Age | hrs | Client Info | | 1168 | 721 | 250 |
| Oil Changed | | Client Info | | Changed | Not Changd | Not Changd |
| Sample Status | | | | NORMAL | NORMAL | NORMAL |
| WEAR METALS | | method | limit/base | current | history1 | history2 |
| Iron | ppm | ASTM D5185m | >20 | 8 | 4 | 6 |
| Chromium | ppm | ASTM D5185m | >10 | <1 | 0 | <1 |
| Nickel | ppm | ASTM D5185m | >10 | 0 | 0 | 0 |
| Titanium | ppm | ASTM D5185m | | <1 | 0 | <1 |
| Silver | ppm | ASTM D5185m | | 0 | 0 | 0 |
| Aluminum | ppm | ASTM D5185m | >10 | 2 | 0 | 2 |
| Lead | ppm | ASTM D5185m | >10 | 0 | 0 | <1 |
| Copper | ppm | ASTM D5185m | >75 | 38 | 33 | 35 |
| Tin | ppm | ASTM D5185m | >10 | <1 | <1 | <1 |
| 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 | | 0 | 0 | 0 |
| Barium | ppm | ASTM D5185m | | 0 | 0 | 0 |
| Molybdenum | ppm | ASTM D5185m | | 0 | 0 | <1 |
| Manganese | ppm | ASTM D5185m | | <1 | 0 | 0 |
| Magnesium | ppm | ASTM D5185m | | <1 | 0 | 0 |
| Calcium | ppm | ASTM D5185m | 150 | 67 | <1 | <1 |
| Phosphorus | ppm | ASTM D5185m | 670 | 309 | 322 | 297 |
| Zinc | ppm | ASTM D5185m | 800 | 167 | 205 | 267 |
| CONTAMINANTS | 5 | method | limit/base | current | history1 | history2 |
| Silicon | ppm | ASTM D5185m | >20 | 2 | <1 | 1 |
| Sodium | ppm | ASTM D5185m | | 0 | <1 | 0 |
| Potassium | ppm | ASTM D5185m | >20 | <1 | 0 | 2 |
| Water | % | ASTM D6304 | >0.1 | 0.003 | 0.002 | 0.006 |
| ppm Water | ppm | ASTM D6304 | >1000 | 34 | 20 | 60 |
| FLUID CLEANLIN | IESS | method | limit/base | current | history1 | history2 |
| Particles >4µm | | ASTM D7647 | >5000 | 2134 | 2313 | 2290 |
| Particles >6µm | | ASTM D7647 | >1300 | 508 | 538 | 700 |
| Particles >14µm | | ASTM D7647 | >160 | 35 | 45 | 59 |
| Particles >21µm | | ASTM D7647 | >40 | 11 | 15 | 21 |
| Particles >38µm | | ASTM D7647 | >10 | 1 | 1 | 1 |
| Particles >71µm | | ASTM D7647 | >3 | 0 | 0 | 0 |
| Oil Cleanliness | | ISO 4406 (c) | >19/17/14 | 18/16/12 | 18/16/13 | 18/17/13 |
| FLUID DEGRADA | NOITA | method | limit/base | current | history1 | history2 |
| Acid Number (AN) | mg KOH/g | ASTM D8045 | 1.0 | 0.27 | 0.30 | 0.33 |



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Laboratory Sample No. Lab Number

: RP0036994 : 06138533 Unique Number : 10963341

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 04 Apr 2024 **Tested** : 05 Apr 2024

Diagnosed : 06 Apr 2024 - Don Baldridge

Test Package : IND 2 Certificate 12367 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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