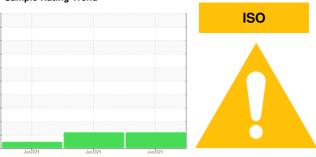


OIL ANALYSIS REPORT

Sample Rating Trend



Machine Id

QC240601HY

Component Hydraulic System

JOHN DEERE HY-GARD HYD/TRANS (--- GAL)

DIAGNOSIS

Recommendation

No corrective action is recommended at this time. Resample at the next service interval to monitor.

All component wear rates are normal.

Contamination

There is a high amount of silt (particulates < 14 microns in size) present in the oil.

Fluid Condition

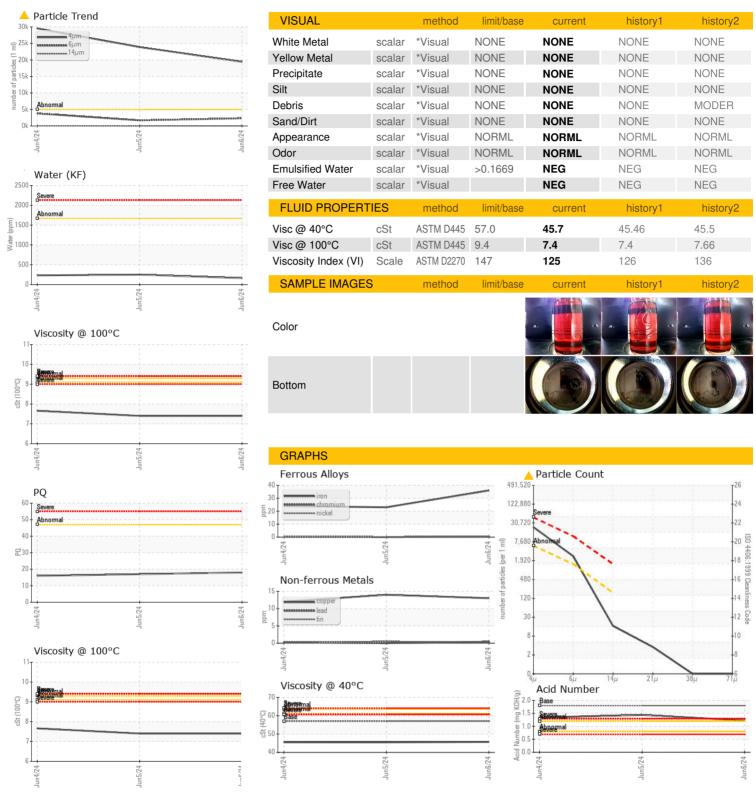
The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

| Oil Age Oil Changed Sample Status | hrs | method Client Info Client Info Client Info | limit/base | current | history1 | history2 |
|---|-----|--|--------------------------|-------------|--------------|--------------|
| Sample Date Machine Age Oil Age Oil Changed Sample Status | | Client Info | | | | |
| Machine Age Oil Age Oil Changed Sample Status | | | | WC06201508 | WC06200126 | WC06199107 |
| Oil Age Oil Changed Sample Status | | Client Info | | 06 Jun 2024 | 05 Jun 2024 | 04 Jun 2024 |
| Oil Changed Sample Status | hrs | Oliciti IIIIO | | 0 | 0 | 0 |
| Sample Status | | Client Info | | 0 | 0 | 0 |
| | | Client Info | | N/A | N/A | N/A |
| | | | | ABNORMAL | ABNORMAL | NORMAL |
| WEAR METALS | | method | limit/base | current | history1 | history2 |
| PQ | | ASTM D8184 | >47 | 18 | 17 | 16 |
| Iron | ppm | ASTM D5185m | >78 | 36 | 23 | 24 |
| Chromium | ppm | ASTM D5185m | >2 | <1 | 0 | <1 |
| Nickel | ppm | ASTM D5185m | >3 | <1 | 0 | 0 |
| Titanium | ppm | ASTM D5185m | >2 | <1 | 0 | 0 |
| Silver | ppm | ASTM D5185m | >2 | 0 | <1 | 0 |
| Aluminum | ppm | ASTM D5185m | >5 | 2 | 1 | 2 |
| Lead | ppm | ASTM D5185m | >11 | <1 | 0 | <1 |
| Copper | ppm | ASTM D5185m | >84 | 13 | 14 | 12 |
| Tin | ppm | ASTM D5185m | >4 | <1 | <1 | <1 |
| Vanadium | ppm | ASTM D5185m | | 0 | 0 | 0 |
| Cadmium | ppm | ASTM D5185m | | <1 | 0 | <1 |
| ADDITIVES | | method | limit/base | current | history1 | history2 |
| Boron | ppm | ASTM D5185m | 6 | 9 | 1 | 0 |
| Barium | ppm | ASTM D5185m | 0 | <1 | <1 | 0 |
| Molybdenum | ppm | ASTM D5185m | 0 | <1 | 0 | <1 |
| Manganese | ppm | ASTM D5185m | | 1 | 1 | <1 |
| Magnesium | ppm | ASTM D5185m | 145 | 89 | 90 | 84 |
| Calcium | ppm | ASTM D5185m | 3570 | 3238 | 3356 | 3113 |
| Phosphorus | ppm | ASTM D5185m | 1290 | 976 | 1099 | 957 |
| Zinc | ppm | ASTM D5185m | 1640 | 1190 | 1197 | 1163 |
| Sulfur | ppm | ASTM D5185m | | 4829 | 3874 | 3767 |
| CONTAMINANTS | | method | limit/base | current | history1 | history2 |
| Silicon | ppm | ASTM D5185m | >11 | 15 | 16 | 13 |
| Sodium | ppm | ASTM D5185m | >23 | 6 | 9 | 6 |
| Potassium | ppm | ASTM D5185m | >20 | 3 | 1 | 2 |
| Water | % | ASTM D6304 | >0.1669 | 0.016 | 0.025 | 0.023 |
| ppm Water | ppm | ASTM D6304 | >1669 | 162 | 251 | 231 |
| | SS | method | limit/base | current | history1 | history2 |
| FLUID CLEANLINE | | ASTM D7647 | >5000 | <u> </u> | △ 23880 | 29514 |
| Particles >4μm | | | >1300 | <u>2327</u> | <u></u> 1696 | 3812 |
| Particles >4μm Particles >6μm | | ASTM D7647 | | | | |
| Particles >4μm Particles >6μm Particles >14μm | | ASTM D7647 | >160 | 14 | 22 | 60 |
| Particles >4µm Particles >6µm Particles >14µm Particles >21µm | | ASTM D7647 ASTM D7647 | >160 >40 | 3 | 11 | 14 |
| Particles >4µm Particles >6µm Particles >14µm Particles >21µm Particles >38µm | | ASTM D7647 ASTM D7647 ASTM D7647 | >160 >40 >10 | 3 0 | 11 | 14 1 |
| Particles >4µm Particles >6µm Particles >14µm Particles >21µm Particles >38µm Particles >71µm | | ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647 | >160 >40 >10 >3 | 3 0 0 | 11 1 0 | 14 1 0 |
| Particles >4µm Particles >6µm Particles >14µm Particles >21µm Particles >38µm | | ASTM D7647 ASTM D7647 ASTM D7647 | >160 >40 >10 | 3 0 | 11 | 14 1 |

1.222



OIL ANALYSIS REPORT







Certificate 12367

Laboratory Sample No.

: WC06201508 Lab Number : 06201508 Unique Number : 11063631

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received **Tested** Diagnosed

: 06 Jun 2024 : 18 Jun 2024

: 18 Jun 2024 - Jonathan Hester

501 Madison Ave Cary, NC US 27513 Contact: WCLS CARY NC

WEARCHECK LUBRICATION SERVICES QA ACCOUNT

Test Package : IND 2 (Additional Tests: KF, KV100, PQ, VI) To discuss this sample report, contact Customer Service at 1-800-237-1369.

 st - 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)

T: (919)379-4102 F: (919)379-4050