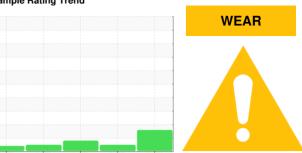


OIL ANALYSIS REPORT

Sample Rating Trend



Machine Id

JOHN DEERE 843L 1DW843LBKMF710421

Hydraulic System

JOHN DEERE HYDRAU (--- GAL)

DIAGNOSIS

Recommendation

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

The iron level is abnormal. The chromium level is abnormal.

Contamination

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

Fluid Condition

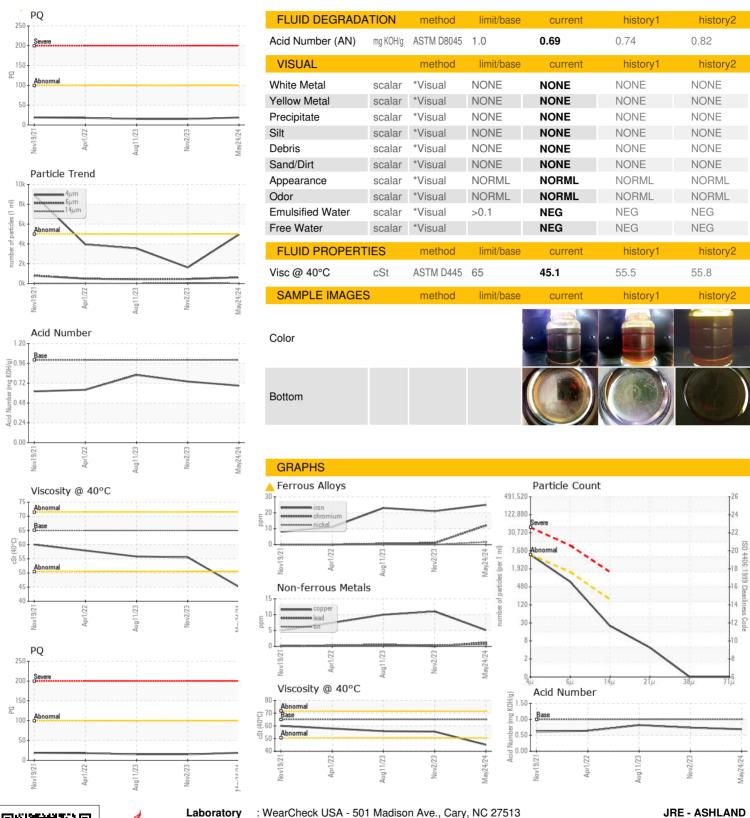
The AN level is acceptable for this fluid. The condition of the oil is acceptable for the time in

| SAMPLE INFORM | MATION | method | limit/base | current | history1 | history2 |
|---|---|--|---|--|---|--|
| Sample Number | | Client Info | | JR0211467 | JR0179125 | JR0164946 |
| Sample Date | | Client Info | | 24 May 2024 | 02 Nov 2023 | 11 Aug 2023 |
| Machine Age | hrs | Client Info | | 3095 | 3451 | 3194 |
| Oil Age | hrs | Client Info | | 0 | 0 | 3194 |
| Oil Changed | | Client Info | | Not Changd | Not Changd | Not Changd |
| Sample Status | | | | ABNORMAL | NORMAL | ABNORMAL |
| CONTAMINATION | V | method | limit/base | current | history1 | history2 |
| Water | | WC Method | >0.1 | NEG | NEG | NEG |
| WEAR METALS | | method | limit/base | current | history1 | history2 |
| PQ | | ASTM D8184 | | 19 | 15 | 15 |
| Iron | ppm | ASTM D5185m | >20 | <u>^</u> 25 | 21 | △ 23 |
| Chromium | ppm | ASTM D5185m | >10 | <u> </u> | 1 | <1 |
| Nickel | ppm | ASTM D5185m | >10 | 2 | 0 | <1 |
| Titanium | ppm | ASTM D5185m | | <1 | <1 | 0 |
| Silver | ppm | ASTM D5185m | | 1 | 0 | 0 |
| Aluminum | ppm | ASTM D5185m | >10 | 2 | <1 | <1 |
| Lead | ppm | ASTM D5185m | >10 | 1 | 0 | <1 |
| Copper | ppm | ASTM D5185m | >75 | 5 | 11 | 10 |
| Tin | ppm | | >10 | <1 | <1 | <1 |
| Vanadium | ppm | ASTM D5185m | | <1 | <1 | 0 |
| Cadmium | ppm | ASTM D5185m | | <1 | 0 | 0 |
| | | | | | | |
| ADDITIVES | | method | limit/base | current | history1 | history2 |
| ADDITIVES Boron | ppm | method ASTM D5185m | limit/base | current 2 | history1 | history2 |
| | ppm ppm | | limit/base | | | |
| Boron | • • | ASTM D5185m | limit/base | 2 | 8 | 9 |
| Boron Barium | ppm | ASTM D5185m ASTM D5185m | limit/base | 2 0 | 8 | 9 |
| Boron Barium Molybdenum | ppm ppm | ASTM D5185m ASTM D5185m ASTM D5185m | limit/base | 2 0 4 | 8 0 13 | 9 0 13 |
| Boron Barium Molybdenum Manganese Magnesium Calcium | ppm ppm | ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m | limit/base | 2 0 4 <1 | 8 0 13 <1 | 9 0 13 <1 |
| Boron Barium Molybdenum Manganese Magnesium | ppm ppm ppm | ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m | | 2 0 4 <1 14 | 8 0 13 <1 18 | 9 0 13 <1 25 |
| Boron Barium Molybdenum Manganese Magnesium Calcium | ppm ppm ppm ppm | ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m | 87 727 900 | 2 0 4 <1 14 185 | 8 0 13 <1 18 325 | 9 0 13 <1 25 328 |
| Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus | ppm ppm ppm ppm ppm | ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m | 87 727 | 2 0 4 <1 14 185 616 | 8 0 13 <1 18 325 709 | 9 0 13 <1 25 328 674 |
| Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc | ppm ppm ppm ppm ppm ppm ppm | ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m | 87 727 900 | 2 0 4 <1 14 185 616 954 | 8 0 13 <1 18 325 709 925 | 9 0 13 <1 25 328 674 885 |
| Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur | ppm ppm ppm ppm ppm ppm ppm | ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m | 87 727 900 1500 | 2 0 4 <1 14 185 616 954 2286 current | 8 0 13 <1 18 325 709 925 1885 history1 | 9 0 13 <1 25 328 674 885 1871 |
| Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium | ppm ppm ppm ppm ppm ppm ppm | ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m | 87 727 900 1500 limit/base >20 | 2 0 4 <1 14 185 616 954 2286 | 8 0 13 <1 18 325 709 925 1885 history1 6 2 | 9 0 13 <1 25 328 674 885 1871 history2 7 |
| Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon | ppm ppm ppm ppm ppm ppm ppm ppm | ASTM D5185m | 87 727 900 1500 limit/base >20 | 2 0 4 <1 14 185 616 954 2286 current | 8 0 13 <1 18 325 709 925 1885 history1 | 9 0 13 <1 25 328 674 885 1871 history2 |
| Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium | ppm ppm ppm ppm ppm ppm ppm ppm ppm | ASTM D5185m | 87 727 900 1500 limit/base >20 | 2 0 4 <1 14 185 616 954 2286 current 8 | 8 0 13 <1 18 325 709 925 1885 history1 6 2 | 9 0 13 <1 25 328 674 885 1871 history2 7 |
| Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium | ppm ppm ppm ppm ppm ppm ppm ppm ppm | ASTM D5185m | 87 727 900 1500 limit/base >20 >20 | 2 0 4 <1 14 185 616 954 2286 current 8 2 | 8 0 13 <1 18 325 709 925 1885 history1 6 2 | 9 0 13 <1 25 328 674 885 1871 history2 7 0 5 |
| Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium FLUID CLEANLIN | ppm ppm ppm ppm ppm ppm ppm ppm ppm | ASTM D5185m | 87 727 900 1500 limit/base >20 >20 limit/base | 2 0 4 <1 14 185 616 954 2286 current 8 2 4 | 8 0 13 <1 18 325 709 925 1885 history1 6 2 4 history1 | 9 0 13 <1 25 328 674 885 1871 history2 7 0 5 |
| Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium FLUID CLEANLIN Particles >4µm | ppm ppm ppm ppm ppm ppm ppm ppm ppm | ASTM D5185m method ASTM D5185m | 87 727 900 1500 limit/base >20 >20 limit/base >5000 | 2 0 4 <1 14 185 616 954 2286 current 8 2 4 | 8 0 13 <1 18 325 709 925 1885 history1 6 2 4 history1 1627 | 9 0 13 <1 25 328 674 885 1871 history2 7 0 5 history2 3544 |
| Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium FLUID CLEANLIN Particles >4µm Particles >6µm | ppm ppm ppm ppm ppm ppm ppm ppm ppm | ASTM D5185m method ASTM D5185m | 87 727 900 1500 limit/base >20 >20 limit/base >5000 >1300 >160 | 2 0 4 <1 14 185 616 954 2286 current 8 2 4 current 4940 619 | 8 0 13 <1 18 325 709 925 1885 history1 6 2 4 history1 1627 458 | 9 0 13 <1 25 328 674 885 1871 history2 7 0 5 history2 3544 433 |
| Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium FLUID CLEANLIN Particles >4µm Particles >6µm Particles >14µm | ppm ppm ppm ppm ppm ppm ppm ppm ppm | ASTM D5185m method ASTM D5185m ASTM D7647 ASTM D7647 | 87 727 900 1500 limit/base >20 >20 limit/base >5000 >1300 >160 | 2 0 4 <1 14 185 616 954 2286 current 8 2 4 current 4940 619 21 | 8 0 13 <1 18 325 709 925 1885 history1 6 2 4 history1 1627 458 70 | 9 0 13 <1 25 328 674 885 1871 history2 7 0 5 history2 3544 433 25 |
| Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium FLUID CLEANLIN Particles >4µm Particles >14µm Particles >21µm | ppm ppm ppm ppm ppm ppm ppm ppm ppm | ASTM D5185m method ASTM D5185m ASTM D7647 ASTM D7647 ASTM D7647 | 87 727 900 1500 limit/base >20 >20 limit/base >5000 >1300 >160 >40 >10 | 2 0 4 <1 14 185 616 954 2286 current 8 2 4 current 4940 619 21 | 8 0 13 <1 18 325 709 925 1885 history1 6 2 4 history1 1627 458 70 23 | 9 0 13 <1 25 328 674 885 1871 history2 7 0 5 history2 3544 433 25 6 |

Contact/Location: DAVID ZIEG - JAMASH



OIL ANALYSIS REPORT







Laboratory Sample No.

Lab Number : 06194610 Unique Number : 11056733

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : JR0211467 Received : 29 May 2024 **Tested** : 30 May 2024

Diagnosed : 31 May 2024 - Don Baldridge

Test Package : CONST (Additional Tests: PQ) 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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