

Area



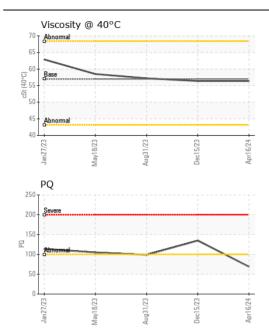
JOHN DEERE 310E 1DW310EXHNF715994

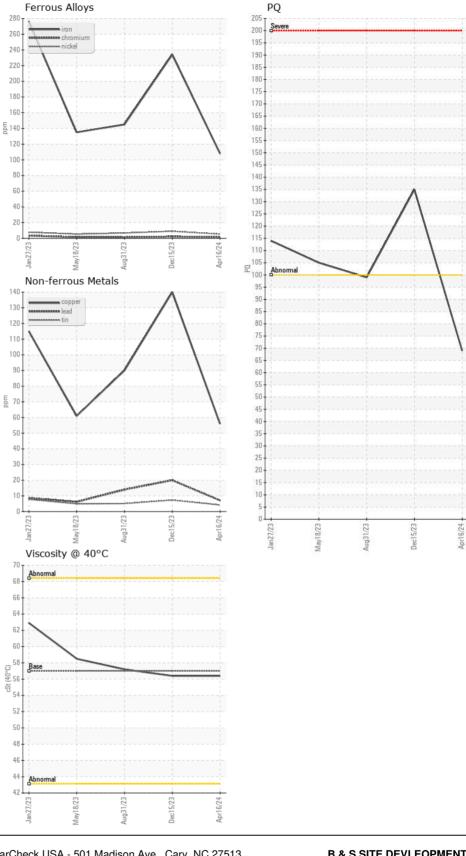
Rear Differential

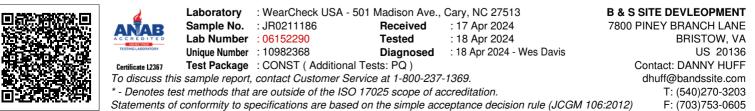
JOHN DEERE HY-GARD HYD/TRANS (30 GAL)

| RECOMMENDATION | Test | UOM | Method | Limit/Abn | Current | History1 | History2 |
|---|------------------|------------------|----------------------|-------------|-------------|-------------|-------------|
| Resample at the next service interval to monitor. | Sample Number | | Client Info | | JR0211186 | JR0196186 | JR0184174 |
| | Sample Date | | Client Info | | 16 Apr 2024 | 15 Dec 2023 | 31 Aug 2023 |
| | Machine Age | hrs | Client Info | | 2479 | 1952 | 1442 |
| | Oil Age | hrs | Client Info | | 527 | 972 | 939 |
| | Filter Age | hrs | Client Info | | 0 | 972 | 0 |
| | Oil Changed | | Client Info | | Not Changd | Changed | Not Changd |
| | Filter Changed | | Client Info | | Not Changd | Changed | Not Changd |
| | Sample Status | | | | NORMAL | ABNORMAL | NORMAL |
| WEAR | PQ | | ASTM D8184 | | 69 | 135 | 99 |
| | Iron | ppm | ASTM D5185m | >500 | 108 | 234 | 145 |
| All component wear rates are normal. | Chromium | ppm | ASTM D5185m | >10 | 2 | 2 | 1 |
| | Nickel | ppm | ASTM D5185m | | 5 | 9 | 7 |
| | Titanium | ppm | ASTM D5185m | | <1 | 0 | <1 |
| | Silver | ppm | ASTM D5185m | | <1 | 0 | 0 |
| | Aluminum | ppm | ASTM D5185m | >25 | 1 | 3 | <1 |
| | Lead | ppm | ASTM D5185m | >25 | 7 | <u> </u> | 14 |
| | Copper | ppm | ASTM D5185m | >100 | 56 | 140 | 90 |
| | Tin | ppm | ASTM D5185m | >10 | 4 | 7 | 5 |
| | Vanadium | ppm | ASTM D5185m | | <1 | 0 | <1 |
| | White Metal | scalar | *Visual | NONE | NONE | NONE | LIGHT |
| | Yellow Metal | scalar | *Visual | NONE | NONE | NONE | NONE |
| CONTAMINATION | 0'''''''''' | | | | | | 40 |
| CONTAMINATION | Silicon | ppm | ASTM D5185m | | 10 | 11 | 10 |
| There is no indication of any contamination in the oil. | Potassium | ppm | ASTM D5185m | | 2 | <1 | 0 |
| | Water Silt | agalar | WC Method *Visual | >.2 NONE | NEG NONE | NEG NONE | NEG NONE |
| | Debris | scalar | *Visual | NONE | NONE | NONE | NONE |
| | Sand/Dirt | scalar scalar | *Visual | NONE | NONE | NONE | NONE |
| | Appearance | scalar | *Visual | NORML | NORML | NORML | NORML |
| | Odor | scalar | *Visual | NORML | NORML | NORML | NORML |
| | Emulsified Water | | *Visual | >.2 | NEG | NEG | NEG |
| | | | | | | | |
| FLUID CONDITION | Sodium | ppm | ASTM D5185m | | 3 | 11 | 9 |
| The condition of the oil is acceptable for the time in service. | Boron | ppm | ASTM D5185m | 6 | 21 | 51 | 47 |
| | Barium | ppm | ASTM D5185m | 0 | 1 | 2 | 0 |
| | Molybdenum | ppm | ASTM D5185m | 0 | 6 | 4 | 4 |
| | Manganese | ppm | ASTM D5185m | | 12 | 25 | 21 |
| | Magnesium | ppm | ASTM D5185m | | 97 | 83 | 83 |
| | Calcium | ppm | ASTM D5185m | | 3279 | 3533 | 3415 |
| | Phosphorus | ppm | ASTM D5185m | | 1055 | 1129 | 1037 |
| | Zinc | ppm | ASTM D5185m | 1640 | 1176 | 1347 | 1285 |
| | Sulfur | ppm | ASTM D5185m | | 4259 | 3716 | 3996 |
| | Visc @ 40°C | cSt | ASTM D445 | 57.0 | 56.4 | 56.4 | 57.2 |

ASTM D445 57.0 56.4 56.4 57.2 Submitted By: TECHNICIAN ACCOUNT







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