

[BOLINVAR FARMS] JOHN DEERE 5085E C292551 (S/N 1LV5085EADE240762)

Hydraulic System

Area

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

| $\frac{1}{2} \frac{1}{2} \frac{1}$ | | | | | | | |
|--|------------------------|---------------|--------------|------------|-------------------|----------|----------|
| RECOMMENDATION | Test | UOM | Method | Limit/Abn | Current | History1 | History2 |
| Oil and filter change at the time of sampling has been noted. We recommend an early resample to monitor this condition. | Sample Number | | Client Info | | JR0196713 | | |
| | Sample Date | | Client Info | | 09 May 2024 | | |
| | Machine Age | hrs | Client Info | | 2238 | | |
| | Oil Age | hrs | Client Info | | 0 | | |
| | Filter Age | hrs | Client Info | | 0 | | |
| | Oil Changed | | Client Info | | Changed | | |
| | Filter Changed | | Client Info | | Changed | | |
| | Sample Status | | | | ABNORMAL | | |
| WEAR | Iron | | ASTM D5185m | <20 <20 | ▲ 50 | | |
| | Chromium | ppm | ASTM D5185m | | 1 | | |
| The iron level is abnormal. All other component wear rates are normal. | Nickel | ppm | ASTM D5185m | | - <1 | | |
| | Titanium | ppm | ASTM D5185m | >10 | <1 | | |
| | Silver | ppm | ASTM D5185m | | <ı 1 | | |
| | Aluminum | ppm | ASTM D5185m | >10 | 4 | | |
| | Lead | ppm | ASTM D5185m | | 4 3 | | |
| | Copper | ppm | ASTM D5185m | | 27 | | |
| | Tin | ppm | ASTM D5185m | | 27 | | |
| | Vanadium | ppm | ASTM D5185m | >10 | 2 <1 | | |
| | White Metal | ppm scalar | *Visual | NONE | NONE | | |
| | Yellow Metal | scalar | *Visual | NONE | NONE | | |
| | | Scalai | visual | | | | |
| CONTAMINATION | Silicon | ppm | ASTM D5185m | >20 | 9 | | |
| | Potassium | ppm | ASTM D5185m | >20 | 3 | | |
| There is a high amount of silt (particulates < 14 microns in size) present in the oil. | Water | | WC Method | >0.1 | NEG | | |
| | Particles >4µm | | ASTM D7647 | >5000 | 133019 | | |
| | Particles >6µm | | ASTM D7647 | >1300 | 4607 | | |
| | Particles >14µm | | ASTM D7647 | >160 | 16 | | |
| | Particles >21µm | | ASTM D7647 | >40 | 5 | | |
| | Particles >38µm | | ASTM D7647 | >10 | 0 | | |
| | Particles >71µm | | ASTM D7647 | >3 | 0 | | |
| | Oil Cleanliness | | ISO 4406 (c) | >19/17/14 | 4 24/19/11 | | |
| | Silt | scalar | *Visual | NONE | NONE | | |
| | Debris | scalar | *Visual | NONE | NONE | | |
| | Sand/Dirt | scalar | *Visual | NONE | NONE | | |
| | Appearance | scalar | *Visual | NORML | NORML | | |
| | Odor | scalar | *Visual | NORML | NORML | | |
| | Emulsified Water | scalar | *Visual | >0.1 | NEG | | |
| | | | | | | | |
| FLUID CONDITION | Sodium | ppm | ASTM D5185m | 0 | 2 | | |
| The AN level is acceptable for this fluid. The condition of the oils additive package is suitable for further service. | Boron | ppm | ASTM D5185m | | 17 | | |
| | Barium | ppm | ASTM D5185m | | 0 | | |
| | Molybdenum | ppm | ASTM D5185m | 0 | 16 | | |
| | Manganese | ppm | ASTM D5185m | 4.45 | 2 | | |
| | Magnesium | ppm | ASTM D5185m | | 100 | | |
| | Calcium | ppm | ASTM D5185m | | 2093 | | |
| | Phosphorus | ppm | ASTM D5185m | 1290 | 717 | | |

Zinc

Sulfur

816

3535

1.15

44.18

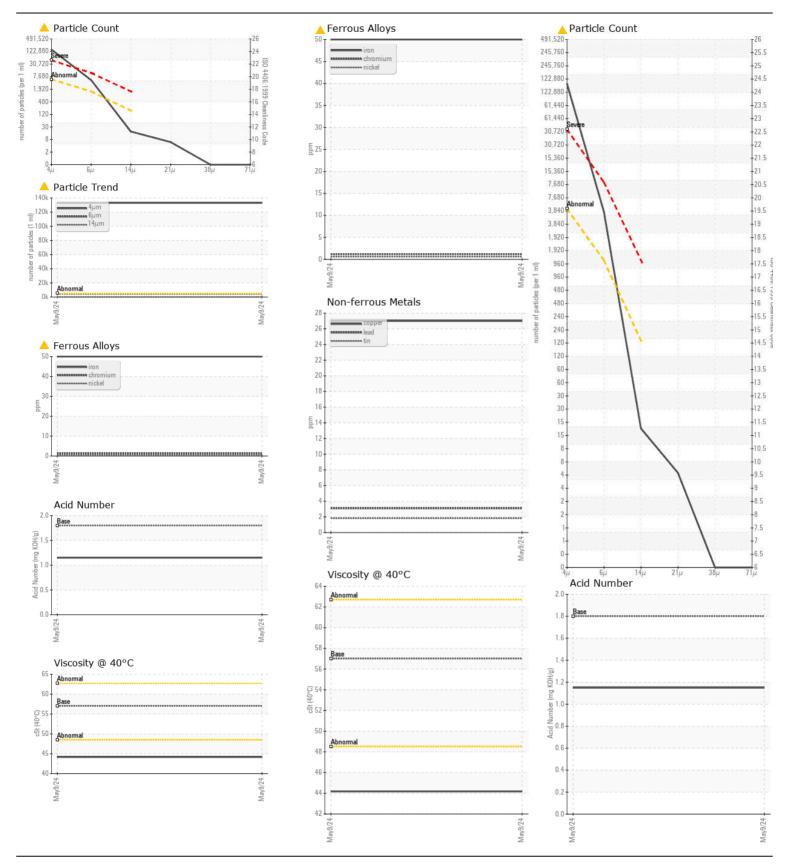
ASTM D5185m 1640

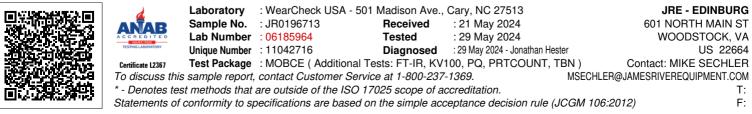
ppm

Acid Number (AN) mg KOH/g ASTM D8045 1.8

Visc @ 40°C cSt ASTM D445 57.0

ppm ASTM D5185m





Contact/Location: MIKE SECHLER - JAMEDI Page 2 of 2