

[05W46325]

JOHN DEERE 333G 1T0333GMANF422972

Diesel Engine

JOHN DEERE ENGINE OIL PLUS 50 II 0W40 (3 GAL)

RECOMMENDATION

Oil and filter change at the time of sampling has been noted. corrective action is recommended at this time. Resample at the service interval to monitor.

| | Test | UOM | Method | Limit/Abn | Current | History1 | History2 |
|----------------------------------|------------------|----------|-------------|-----------|-------------|----------|----------|
| | Sample Number | | Client Info | | JR0214433 | | |
| No the next | Sample Date | | Client Info | | 22 Apr 2024 | | |
| | Machine Age | hrs | Client Info | | 447 | | |
| | Oil Age | hrs | Client Info | | 447 | | |
| | Filter Age | hrs | Client Info | | 447 | | |
| | Oil Changed | | Client Info | | Changed | | |
| | Filter Changed | | Client Info | | Changed | | |
| | Sample Status | | | | ABNORMAL | | |
| | | | | | | | |
| cant wear cooling breaking | Iron | ppm | ASTM D5185m | >51 | 29 | | |
| | Chromium | ppm | ASTM D5185m | >11 | <1 | | |
| | Nickel | ppm | ASTM D5185m | >5 | 0 | | |
| | Titanium | ppm | ASTM D5185m | | 0 | | |
| | Silver | ppm | ASTM D5185m | >3 | 0 | | |
| | Aluminum | ppm | ASTM D5185m | >31 | 6 | | |
| | Lead | ppm | ASTM D5185m | >26 | 0 | | |
| | Copper | ppm | ASTM D5185m | >26 | 🔺 175 | | |
| | Tin | ppm | ASTM D5185m | >4 | <1 | | |
| | Vanadium | ppm | ASTM D5185m | | 0 | | |
| | White Metal | scalar | *Visual | NONE | NONE | | |
| | Yellow Metal | scalar | *Visual | NONE | NONE | | |
| | | | | | | | |
| | Silicon | ppm | ASTM D5185m | >22 | 46 | | |
| | Potassium | ppm | ASTM D5185m | >20 | 0 | | |
| | Fuel | | WC Method | >2.1 | <1.0 | | |
| | Water | | WC Method | >0.21 | NEG | | |
| | Glycol | | WC Method | | NEG | | |
| | Soot % | % | *ASTM D7844 | >3 | 0.3 | | |
| | Nitration | Abs/cm | *ASTM D7624 | >20 | 11.0 | | |
| | Sulfation | Abs/.1mm | *ASTM D7415 | >30 | 27.6 | | |
| | 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 | >0.21 | NEG | | |
| | Cadium | | | 04 | • | | |
| | Sodium | ppm | | >31 | 9 | | |
| ning in the | Boron | ppm | ASTM D5185m | | 152 | | |
| | Barium | ppm | ASTM D5185m | | 2 | | |
| | Molybdenum | ppm | ASTM D5185m | | 229 | | |
| | Manganese | ppm | ASTM D5185m | | 2 | | |
| | Magnesium | ppm | ASTM D5185m | | 737 | | |
| | Calcium | ppm | ASTM D5185m | | 1717 | | |
| | Phosphorus | ppm | ASTM D5185m | | 847 | | |
| | Zinc | ppm | ASTM D5185m | | 1044 | | |
| | Sulfur | ppm | ASTM D5185m | 0.5 | 3351 | | |
| | Oxidation | Abs/.1mm | *ASTM D7414 | >25 | 25.9 | | |

Base Number (BN) mg KOH/g ASTM D2896 10.5

ASTM D445 14

Visc @ 100°C cSt

WEAR

The copper level is abnormal. In the absence of other signification metals, suspect copper due to sources other than wear (i.e. c core). All other metal levels are typical for a new component b in.

CONTAMINATION

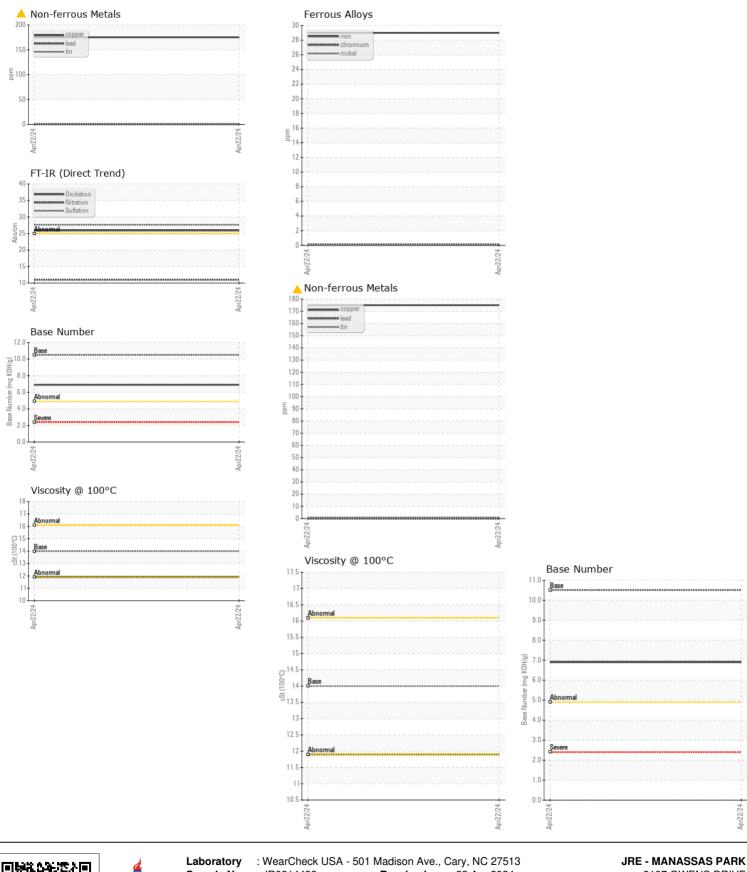
There is no indication of any contamination in the oil.

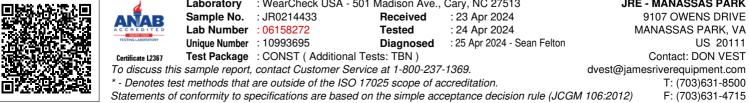
FLUID CONDITION

The BN result indicates that there is suitable alkalinity remaini oil. The condition of the oil is acceptable for the time in service

6.9

11.9





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