

[44275] Machine Id JOHN DEERE 310SL 702722 Component

Component Diesel Engine

JOHN DEERE ENGINE OIL PLUS 50 II 15W40 (14 QTS)

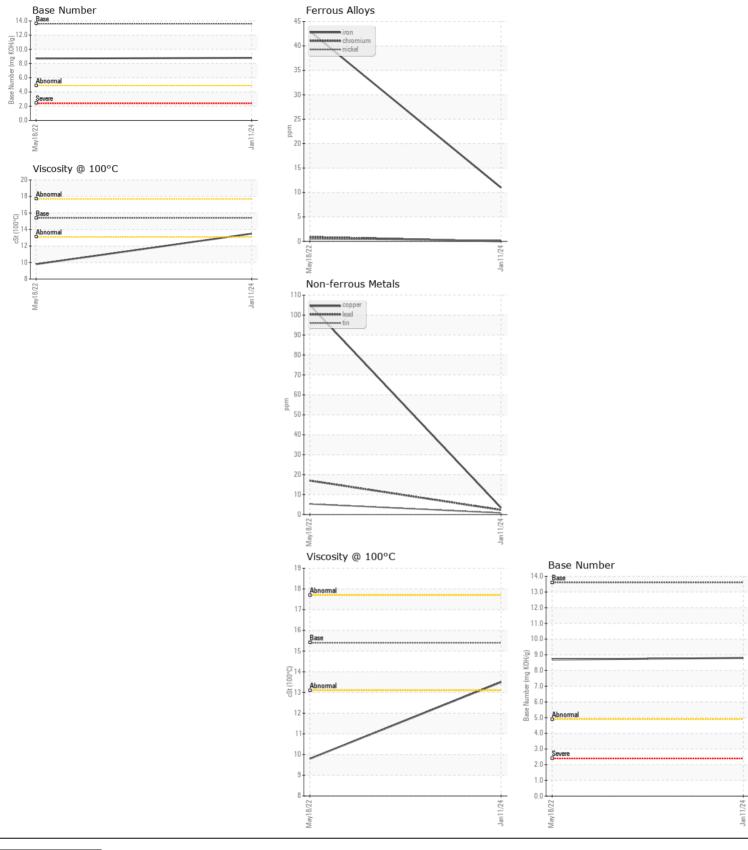
| JOHN DEERE ENGINE OIL PLUS 50 II 15W40 (1 | 14 (215) | | | | | | |
|---|------------------|----------|-------------|-----------|-------------|-------------|----------|
| RECOMMENDATION | Test | UOM | Method | Limit/Abn | Current | History1 | History2 |
| Resample at the next service interval to monitor. | Sample Number | | Client Info | | JR0196110 | JR0132134 | |
| | Sample Date | | Client Info | | 11 Jan 2024 | 18 May 2022 | |
| | Machine Age | hrs | Client Info | | 1366 | 646 | |
| | Oil Age | hrs | Client Info | | 720 | 646 | |
| | Filter Age | hrs | Client Info | | 0 | 646 | |
| | Oil Changed | | Client Info | | N/A | Changed | |
| | Filter Changed | | Client Info | | N/A | Changed | |
| | Sample Status | | | | NORMAL | ATTENTION | |
| WEAR | Iron | ppm | ASTM D5185m | >51 | 11 | 43 | |
| All component wear rates are normal. | Chromium | ppm | ASTM D5185m | | 0 | <1 | |
| | Nickel | ppm | ASTM D5185m | | <1 | <1 | |
| | Titanium | ppm | ASTM D5185m | | 0 | <1 | |
| | Silver | ppm | ASTM D5185m | >3 | 0 | <1 | |
| | Aluminum | ppm | ASTM D5185m | | 5 | 7 | |
| | Lead | ppm | ASTM D5185m | | 2 | 17 | |
| | Copper | ppm | ASTM D5185m | | 3 | 105 | |
| | Tin | ppm | ASTM D5185m | | <1 | 5 | |
| | Vanadium | ppm | ASTM D5185m | | <1 | 0 | |
| | White Metal | scalar | *Visual | NONE | NONE | NONE | |
| | Yellow Metal | scalar | *Visual | NONE | NONE | NONE | |
| CONTAMINATION | Silicon | ppm | ASTM D5185m | >22 | 7 | 11 | |
| | Potassium | ppm | ASTM D5185m | | 1 | 2 | |
| There is no indication of any contamination in the oil. | Fuel | pp | WC Method | >2.1 | <1.0 | 0.2 | |
| | Water | | WC Method | | NEG | NEG | |
| | Glycol | | WC Method | | NEG | NEG | |
| | Soot % | % | *ASTM D7844 | >3 | 0.1 | 0.2 | |
| | Nitration | Abs/cm | *ASTM D7624 | | 8.7 | 10.2 | |
| | Sulfation | Abs/.1mm | *ASTM D7415 | >30 | 21.8 | 24.8 | |
| | Silt | scalar | *Visual | NONE | NONE | NONE | |
| | Debris | scalar | *Visual | NONE | NONE | NONE | |
| | Sand/Dirt | scalar | *Visual | NONE | NONE | NONE | |
| | Appearance | scalar | *Visual | NORML | NORML | NORML | |
| | Odor | scalar | *Visual | NORML | NORML | NORML | |
| | Emulsified Water | scalar | *Visual | >0.21 | NEG | NEG | |
| FLUID CONDITION | Sodium | ppm | ASTM D5185m | >31 | 2 | 6 | |
| | Boron | ppm | ASTM D5185m | | 233 | 198 | |
| The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service. | Barium | ppm | ASTM D5185m | | 0 | 0 | |
| | Molybdenum | ppm | ASTM D5185m | | 250 | 254 | |
| | Manganese | ppm | ASTM D5185m | | <1 | 5 | |
| | Magnesium | ppm | ASTM D5185m | | 833 | 939 | |
| | Calcium | ppm | ASTM D5185m | | 1380 | 1552 | |
| | Phosphorus | ppm | ASTM D5185m | | 967 | 826 | |
| | Zinc | ppm | ASTM D5185m | | 1125 | 991 | |
| | Sulfur | ppm | ASTM D5185m | | 3064 | 2552 | |
| | Oxidation | Abs/.1mm | *ASTM D7414 | >25 | 17.2 | 20.9 | |
| | Base Number (BN) | mg KOH/g | ASTM D2896 | 13.6 | 8.8 | 8.7 | |
| | 1/1 0 10000 | 01 | AOTH DAAF | 4 - 4 | 10 5 | 4 0 0 | |

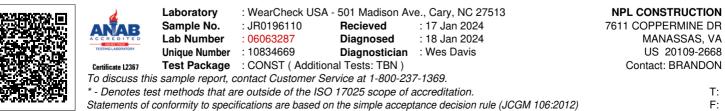
Visc @ 100°C cSt

ASTM D445 15.4

9.8

13.5





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