

JOHN DEERE 410L PM051615 (S/N 1T0410LXLNF420505)

Diesel Engine

JOHN DEERE ENGINE OIL PLUS 50 II 15W40 (--- GAL)

| JOHN DEERE ENGINE OIL PLUS JUII 15W40 (| | | | | | | |
|---|--------------------------|----------|-------------|-----------|--------------|--------------|-------------|
| RECOMMENDATION | Test | UOM | Method | Limit/Abn | Current | History1 | History2 |
| Resample at the next service interval to monitor. | Sample Number | | Client Info | | JR0221395 | JR0195000 | JR0169508 |
| | Sample Date | | Client Info | | 27 Jun 2024 | 06 Dec 2023 | 26 Jul 2023 |
| | Machine Age | hrs | Client Info | | 1993 | 1513 | 1002 |
| | Oil Age | hrs | Client Info | | 1513 | 0 | 0 |
| | Filter Age | hrs | Client Info | | 1513 | 0 | 0 |
| | Oil Changed | | Client Info | | Changed | Changed | Changed |
| | Filter Changed | | Client Info | | Changed | Changed | Changed |
| | Sample Status | | | | NORMAL | NORMAL | NORMAL |
| WEAR | Iron | ppm | ASTM D5185m | >51 | 23 | 46 | 27 |
| All component wear rates are normal. | Chromium | ppm | ASTM D5185m | >11 | <1 | 1 | 1 |
| | Nickel | ppm | ASTM D5185m | >5 | <1 | 2 | <1 |
| | Titanium | ppm | ASTM D5185m | | 0 | 0 | 0 |
| | Silver | ppm | ASTM D5185m | >3 | 0 | 0 | 0 |
| | Aluminum | ppm | ASTM D5185m | >31 | 6 | 8 | 6 |
| | Lead | ppm | ASTM D5185m | >26 | 3 | 5 | 2 |
| | Copper | ppm | ASTM D5185m | >26 | <1 | 3 | 6 |
| | Tin | ppm | ASTM D5185m | >4 | <1 | 0 | <1 |
| | Vanadium | ppm | ASTM D5185m | | 0 | 0 | 0 |
| | White Metal | scalar | *Visual | NONE | NONE | NONE | NONE |
| | Yellow Metal | scalar | *Visual | NONE | NONE | NONE | NONE |
| CONTAMINATION | Silicon | ppm | ASTM D5185m | >22 | 12 | 18 | 14 |
| There is no indication of any contamination in the oil. | Potassium | ppm | ASTM D5185m | >20 | <1 | 2 | 0 |
| | Fuel | | WC Method | | <1.0 | <1.0 | <1.0 |
| | Water | | WC Method | >0.21 | NEG | NEG | NEG |
| | Glycol | | WC Method | | NEG | NEG | NEG |
| | Soot % | % | *ASTM D7844 | | 0.1 | 0.2 | 0.2 |
| | Nitration | Abs/cm | *ASTM D7624 | | 8.4 | 8.6 | 8.6 |
| | Sulfation | Abs/.1mm | *ASTM D7415 | | 21.5 | 21.7 | 21.2 |
| | Silt | scalar | *Visual | NONE | NONE | NONE | NONE |
| | Debris | scalar | *Visual | NONE | NONE | NONE | NONE |
| | Sand/Dirt | scalar | *Visual | NONE | NONE | NONE | NONE |
| | Appearance | scalar | *Visual | NORML | NORML | NORML | NORML |
| | Odor Emulsified Water | scalar | *Visual | NORML | NORML NEG | NORML NEG | NORML |
| | | scalar | *Visual | >0.21 | NEG | NEG | NEG |
| FLUID CONDITION The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service. | Sodium | ppm | ASTM D5185m | >31 | <1 | 2 | 2 |
| | Boron | ppm | ASTM D5185m | | 245 | 277 | 249 |
| | Barium | ppm | ASTM D5185m | | 0 | 0 | 0 |
| | Molybdenum | ppm | ASTM D5185m | | 247 | 274 | 248 |
| | Manganese | ppm | ASTM D5185m | | <1 | 0 | <1 |
| | Magnesium | ppm | ASTM D5185m | | 846 | 876 | 900 |
| | Calcium | ppm | ASTM D5185m | | 1432 | 1504 | 1634 |
| | Phosphorus | ppm | ASTM D5185m | | 916 | 942 | 981 |
| | Zinc | ppm | ASTM D5185m | | 1097 | 1176 | 1180 |
| | Sulfur | ppm | ASTM D5185m | | 3377 | 3050 | 3772 |
| | Oxidation | Abs/.1mm | *ASTM D7414 | >25 | 16.1 | 17.6 | 16.9 |
| | Base Number (BN) | mg KOH/g | ASTM D2896 | 13.6 | 8.8 | 9.0 | 8.8 |
| | Vice @ 10000 | - 0+ | | 4 - 4 | 10.0 | 10.4 | 10.0 |

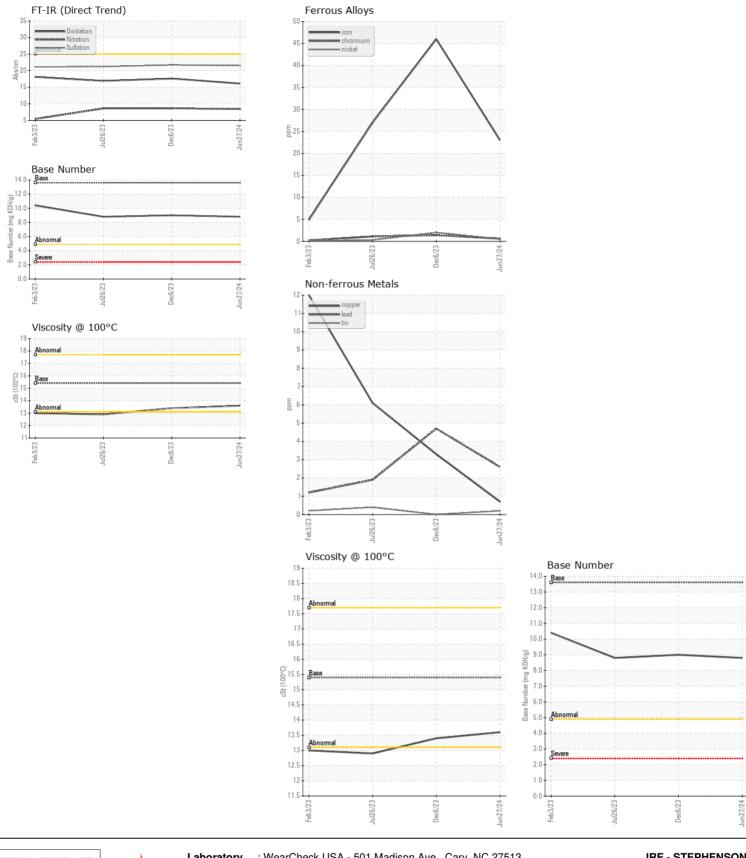
Visc @ 100°C cSt

ASTM D445 15.4

12.9

13.4

13.6



JRE - STEPHENSON Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513 Sample No. : JR0221395 Received 245 YARDMASTER COURT : 01 Jul 2024 Lab Number : 06225563 Tested STEPHENSON, VA : 03 Jul 2024 Unique Number : 11103760 Diagnosed : 03 Jul 2024 - Wes Davis US 22656-1761 Test Package : CONST (Additional Tests: TBN) Contact: PHIL DAUGHERTY Certificate L2367 To discuss this sample report, contact Customer Service at 1-800-237-1369. pdaugherty@jamesriverequipment.com * - Denotes test methods that are outside of the ISO 17025 scope of accreditation. T: x: F: (540)693-2588 Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

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Submitted By: COTY MAGAHA Page 2 of 2