WEAR
CONTAMINATION
FLUID CONDITION

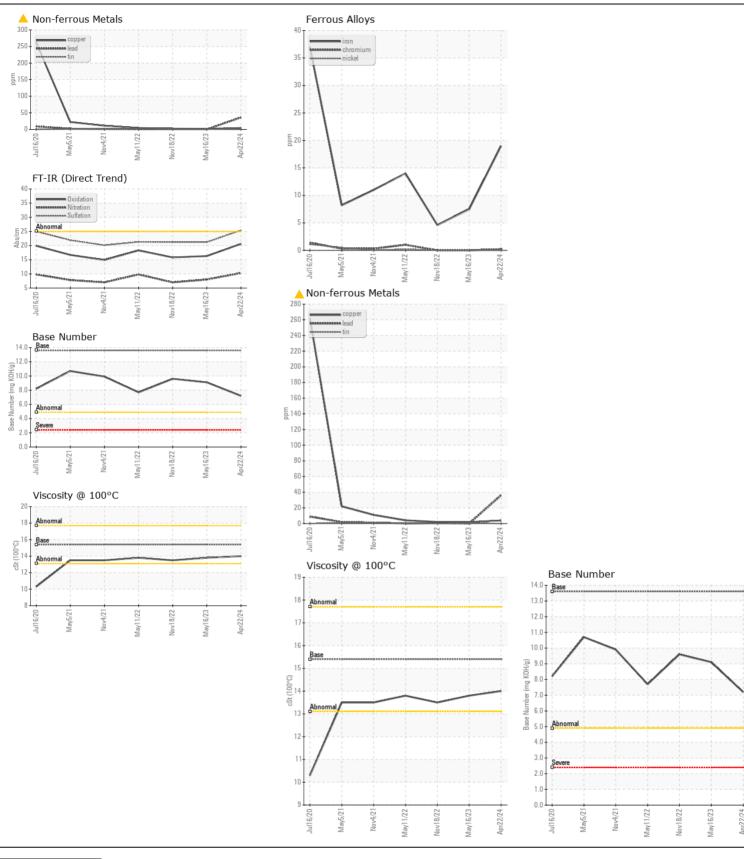
ABNORMAL NORMAL NORMAL

Machine Id

JOHN DEERE 1T0310SLAKF348595

Diesel Engine

| RECOMMENDATION | Test | UOM | Method | Limit/Abn | Current | History1 | History2 |
|---|-------------------------|------------|----------------------------|-----------|-------------|-------------|-------------|
| Oil and filter change at the time of sampling has been noted. No corrective action is recommended at this time. Resample at the next service interval to monitor. | Sample Number | | Client Info | | JR0214556 | JR0173101 | JR0153230 |
| | Sample Date | | Client Info | | 22 Apr 2024 | 16 May 2023 | 18 Nov 2022 |
| | Machine Age | hrs | Client Info | | 1737 | 1116 | 952 |
| | Oil Age | hrs | Client Info | | 621 | 0 | 952 |
| | Filter Age | hrs | Client Info | | 621 | 0 | 952 |
| | Oil Changed | | Client Info | | Changed | Changed | Changed |
| | Filter Changed | | Client Info | | Changed | Changed | Changed |
| | Sample Status | | | | ABNORMAL | NORMAL | NORMAL |
| VEAR | Iron | ppm | ASTM D5185m | >51 | 19 | 8 | 5 |
| The lead level is abnormal. All other component wear rates are normal. | Chromium | ppm | ASTM D5185m | >11 | <1 | 0 | 0 |
| | Nickel | ppm | ASTM D5185m | | 0 | 0 | 0 |
| | Titanium | ppm | ASTM D5185m | | 0 | 0 | 0 |
| | Silver | ppm | ASTM D5185m | >3 | 0 | 0 | 0 |
| | Aluminum | ppm | ASTM D5185m | >31 | 4 | 4 | 3 |
| | Lead | ppm | ASTM D5185m | >26 | ▲ 36 | 0 | <1 |
| | Copper | ppm | ASTM D5185m | >26 | 4 | 2 | 2 |
| | Tin | ppm | ASTM D5185m | >4 | 0 | <1 | 0 |
| | 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 | 6 | 6 | 6 |
| CONTAMINATION | Potassium | ppm | ASTM D5185m | | <1 | 0 | 2 |
| There is no indication of any contamination in the oil. | Fuel | ррпп | WC Method | | <1.0 | <1.0 | <1.0 |
| | Water | | WC Method | | NEG | NEG | NEG |
| | Glycol | | WC Method | 70.21 | NEG | NEG | NEG |
| | Soot % | % | *ASTM D7844 | \3 | 0.2 | 0.1 | 0.1 |
| | Nitration | Abs/cm | *ASTM D7624 | >20 | 10.3 | 8.0 | 7.0 |
| | Sulfation | Abs/.1mm | *ASTM D7415 | | 25.4 | 21.2 | 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 | NORM |
| | Odor | scalar | *Visual | NORML | NORML | NORML | NORM |
| | Emulsified Water | scalar | *Visual | >0.21 | NEG | NEG | NEG |
| FLUID CONDITION | Sodium | nnm | ASTM D5185m | ~ Q1 | 2 | 1 | 0 |
| LOID CONDITION | Boron | ppm | ASTM D5185m | >01 | 104 | 295 | 261 |
| 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 | | 104 | 0 | 0 |
| | | ppm | | | | | |
| | Molybdenum Manganese | ppm | ASTM D5185m ASTM D5185m | | 208 <1 | 256 <1 | 251 <1 |
| | Magnesium | ppm | ASTM D5185m | | < 1 785 | 824 | 749 |
| | Calcium | ppm | ASTM D5185m | | 765 1624 | 1530 | 1499 |
| | Phosphorus | | ASTM D5185m | | 923 | 914 | 903 |
| | Zinc | ppm | ASTM D5185m | | 923 1164 | 1106 | 1068 |
| | Sulfur | ppm | ASTM D5185m | | 3748 | 3454 | 4098 |
| | Oxidation | Abs/.1mm | *ASTM D3163111 | -25 | 20.6 | 16.3 | 15.8 |
| | Base Number (BN) | | | | 7.2 | 9.1 | 9.6 |
| | Dase Mullipel (DIV) | IIIU KUT/U | 40 LIVI D5030 | 10.0 | 1.4 | J. I | 5.0 |







Laboratory Sample No.

: JR0214556 Lab Number : 06159663

: WearCheck USA - 501 Madison Ave., Cary, NC 27513

Received **Tested** Unique Number: 10995086 Test Package : CONST (Additional Tests: TBN)

: 24 Apr 2024 : 25 Apr 2024 Diagnosed

: 26 Apr 2024 - Sean Felton

7611 COPPERMINE DR MANASSAS, VA US 20109-2668 Contact: BRANDON

NPL CONSTRUCTION

Certificate L2367 To discuss this sample report, contact Customer Service at 1-800-237-1369.

* - Denotes test methods that are outside of the ISO 17025 scope of accreditation.

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

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