WEAR CONTAMINATION FLUID CONDITION

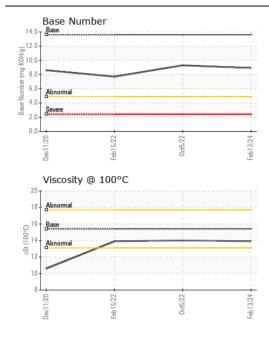
NORMAL NORMAL NORMAL

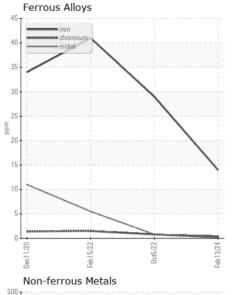


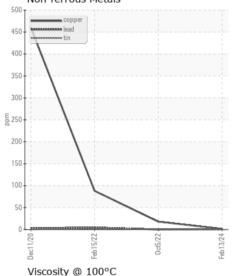
JOHN DEERE 210G 1FF210GXCKF528087

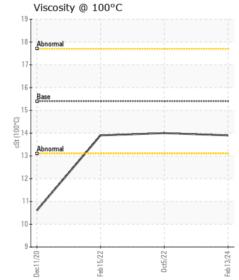
Component Diesel Engine

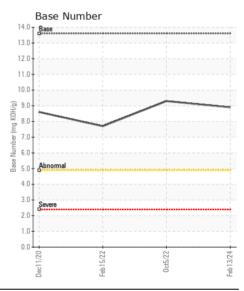
| | S 50 II 15W | .: | | | | | |
|---|------------------|----------|-------------|-----------|-------------|-------------|-------------|
| RECOMMENDATION | Test | UOM | Method | Limit/Abn | Current | History1 | History2 |
| Resample at the next service interval to monitor. | Sample Number | | Client Info | | JR0203301 | JR0144009 | JR0116966 |
| | Sample Date | | Client Info | | 13 Feb 2024 | 05 Oct 2022 | 15 Feb 2022 |
| | Machine Age | hrs | Client Info | | 2487 | 1479 | 1043 |
| | Oil Age | hrs | Client Info | | 1008 | 0 | 0 |
| | Filter Age | hrs | Client Info | | 0 | 0 | 0 |
| | Oil Changed | | Client Info | | Changed | Changed | Changed |
| | Filter Changed | | Client Info | | Changed | Changed | Changed |
| | Sample Status | | | | NORMAL | NORMAL | ABNORMAL |
| WEAR | Iron | ppm | ASTM D5185m | >51 | 14 | 29 | 41 |
| All component wear rates are normal. | Chromium | ppm | ASTM D5185m | >11 | <1 | <1 | 2 |
| | Nickel | ppm | ASTM D5185m | >5 | <1 | <1 | 6 |
| | Titanium | ppm | ASTM D5185m | | 0 | <1 | <1 |
| | Silver | ppm | ASTM D5185m | >3 | 0 | 0 | 0 |
| | Aluminum | ppm | ASTM D5185m | >31 | 5 | 5 | 3 |
| | Lead | ppm | ASTM D5185m | >26 | <1 | 0 | 5 |
| | Copper | ppm | ASTM D5185m | >26 | 1 | 18 | A 88 |
| | Tin | ppm | ASTM D5185m | >4 | <1 | <1 | 2 |
| | Vanadium | ppm | ASTM D5185m | | <1 | 0 | 0 |
| | White Metal | scalar | *Visual | NONE | NONE | NONE | NONE |
| | Yellow Metal | scalar | *Visual | NONE | NONE | NONE | NONE |
| CONTAMINATION | Silicon | ppm | ASTM D5185m | >22 | 7 | 8 | 10 |
| | Potassium | ppm | ASTM D5185m | >20 | 2 | 3 | 0 |
| There is no indication of any contamination in the oil. | Fuel | | WC Method | >2.1 | <1.0 | <1.0 | <1.0 |
| | Water | | WC Method | >0.21 | NEG | NEG | NEG |
| | Glycol | | WC Method | | NEG | NEG | NEG |
| | Soot % | % | *ASTM D7844 | >3 | 0.4 | 0.6 | 0.6 |
| | Nitration | Abs/cm | *ASTM D7624 | >20 | 9.1 | 11.2 | 10.6 |
| | Sulfation | Abs/.1mm | *ASTM D7415 | >30 | 22.7 | 26.1 | 25.8 |
| | 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 | scalar | *Visual | NORML | NORML | NORML | NORML |
| | Emulsified Water | scalar | *Visual | >0.21 | NEG | NEG | NEG |
| FLUID CONDITION | Sodium | ppm | ASTM D5185m | >31 | 2 | <1 | 4 |
| | Boron | ppm | ASTM D5185m | | 166 | 150 | 138 |
| 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 | 0 |
| | Molybdenum | ppm | ASTM D5185m | | 219 | 280 | 259 |
| | Manganese | ppm | ASTM D5185m | | <1 | 1 | 2 |
| | Magnesium | ppm | ASTM D5185m | | 741 | 842 | 873 |
| | Calcium | ppm | ASTM D5185m | | 1198 | 1525 | 1536 |
| | Phosphorus | ppm | ASTM D5185m | | 795 | 904 | 874 |
| | Zinc | ppm | ASTM D5185m | | 957 | 1113 | 1070 |
| | Sulfur | ppm | ASTM D5185m | | 2515 | 3413 | 2309 |
| | Oxidation | Abs/.1mm | *ASTM D7414 | >25 | 17.2 | 20.7 | 21.1 |
| | | | | | | | |
| | Base Number (BN) | mg KOH/q | ASTM D2896 | 13.6 | 8.9 | 9.3 | 7.7 |













Report Id: JAMMAN [WUSCAR] 06089436 (Generated: 02/22/2024 20:24:03) Rev: 1

Laboratory Sample No.

Lab Number : 06089436 Unique Number : 10876881

: JR0203301

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

Tested Diagnosed Test Package : CONST (Additional Tests: TBN)

: 14 Feb 2024 : 15 Feb 2024

: 16 Feb 2024 - Don Baldridge

JRE - MANASSAS PARK 9107 OWENS DRIVE MANASSAS PARK, VA US 20111

Contact: DON VEST dvest@jamesriverequipment.com

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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