



| | |
|-----------------|---------------|
| WEAR | NORMAL |
| CONTAMINATION | NORMAL |
| FLUID CONDITION | NORMAL |

Machine Id
JOHN DEERE 700L 1T0700LXHNF430145

Component
Diesel Engine

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

RECOMMENDATION

Resample at the next service interval to monitor.

| Test | UOM | Method | Limit/Abn | Current | History1 | History2 |
|----------------|-----|-------------|-----------|--------------------|-------------|-------------|
| Sample Number | | Client Info | | JR0202853 | JR0191181 | JR0181417 |
| Sample Date | | Client Info | | 05 Feb 2024 | 08 Nov 2023 | 26 Aug 2023 |
| Machine Age | hrs | Client Info | | 2473 | 2072 | 1631 |
| Oil Age | hrs | Client Info | | 401 | 441 | 629 |
| 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 | NORMAL |

WEAR

All component wear rates are normal.

| | | | | | | |
|--------------|--------|-------------|------|--------------|------|------|
| Iron | ppm | ASTM D5185m | >51 | 26 | 14 | 20 |
| Chromium | ppm | ASTM D5185m | >11 | <1 | <1 | <1 |
| Nickel | ppm | ASTM D5185m | >5 | 3 | 2 | 3 |
| Titanium | ppm | ASTM D5185m | | <1 | 0 | <1 |
| Silver | ppm | ASTM D5185m | >3 | 0 | 0 | 0 |
| Aluminum | ppm | ASTM D5185m | >31 | 3 | 4 | 5 |
| Lead | ppm | ASTM D5185m | >26 | 0 | 0 | 0 |
| Copper | ppm | ASTM D5185m | >26 | 6 | 4 | 24 |
| Tin | ppm | ASTM D5185m | >4 | 0 | <1 | <1 |
| Vanadium | ppm | ASTM D5185m | | <1 | 0 | <1 |
| White Metal | scalar | *Visual | NONE | NONE | NONE | NONE |
| Yellow Metal | scalar | *Visual | NONE | NONE | NONE | NONE |

CONTAMINATION

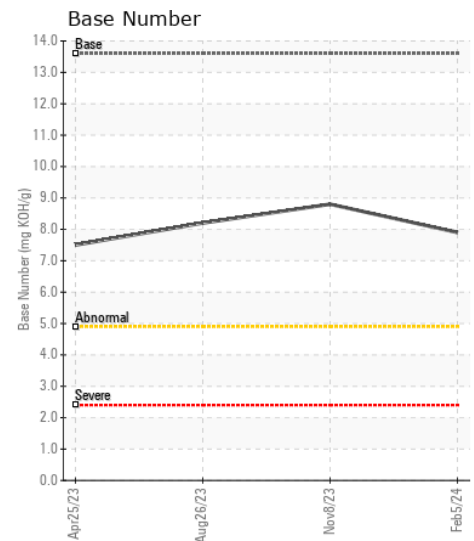
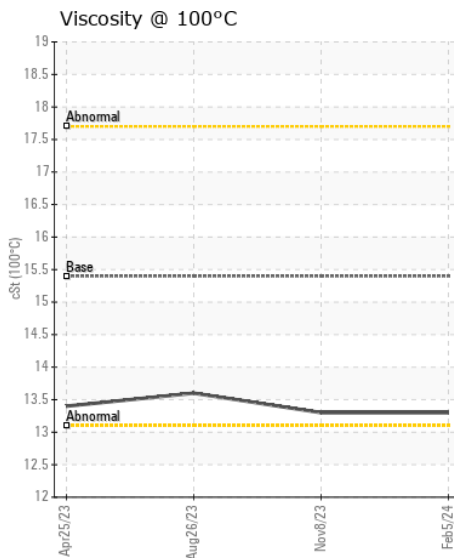
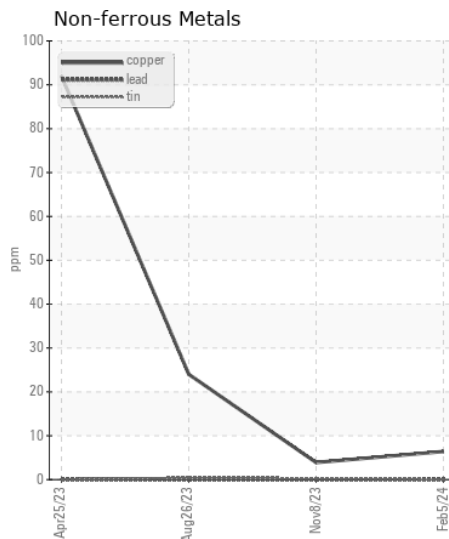
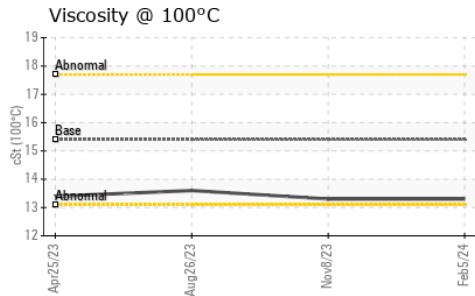
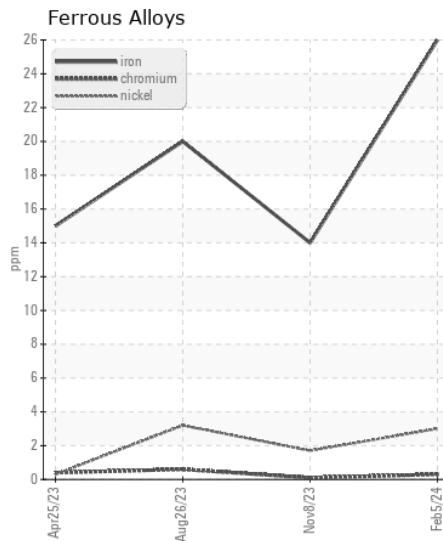
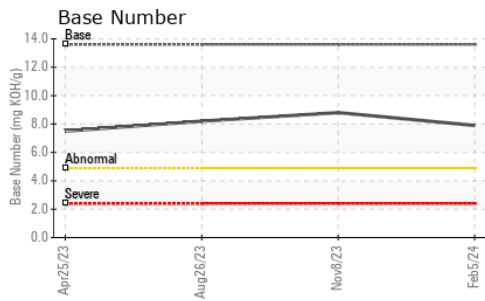
There is no indication of any contamination in the oil.

| | | | | | | |
|------------------|----------|-------------|-------|----------------|-------|-------|
| Silicon | ppm | ASTM D5185m | >22 | 7 | 7 | 7 |
| Potassium | ppm | ASTM D5185m | >20 | 3 | <1 | <1 |
| 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 | 0.5 | 0.3 | 0.4 |
| Nitration | Abs/cm | *ASTM D7624 | >20 | 9.5 | 8.6 | 9.1 |
| Sulfation | Abs/.1mm | *ASTM D7415 | >30 | 24.3 | 22.1 | 23.5 |
| 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

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

| | | | | | | |
|------------------|----------|-------------|------|-------------|------|------|
| Sodium | ppm | ASTM D5185m | >31 | 1 | 2 | 3 |
| Boron | ppm | ASTM D5185m | | 158 | 216 | 210 |
| Barium | ppm | ASTM D5185m | | 0 | 0 | 0 |
| Molybdenum | ppm | ASTM D5185m | | 255 | 234 | 261 |
| Manganese | ppm | ASTM D5185m | | 0 | <1 | <1 |
| Magnesium | ppm | ASTM D5185m | | 801 | 818 | 899 |
| Calcium | ppm | ASTM D5185m | | 1522 | 1615 | 1511 |
| Phosphorus | ppm | ASTM D5185m | | 869 | 911 | 893 |
| Zinc | ppm | ASTM D5185m | | 1112 | 1168 | 1120 |
| Sulfur | ppm | ASTM D5185m | | 2886 | 2993 | 3350 |
| Oxidation | Abs/.1mm | *ASTM D7414 | >25 | 19.0 | 16.7 | 18.4 |
| Base Number (BN) | mg KOH/g | ASTM D2896 | 13.6 | 7.9 | 8.8 | 8.2 |
| Visc @ 100°C | cSt | ASTM D445 | 15.4 | 13.3 | 13.3 | 13.6 |



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : JR0202853 **Received** : 13 Feb 2024
Lab Number : 06087113 **Tested** : 14 Feb 2024
Unique Number : 10874558 **Diagnosed** : 14 Feb 2024 - Don Baldrige
Test Package : CONST (Additional Tests: TBN)

JRE - GARNER
 4161 AUBURN CHURCH RD
 GARNER, NC
 US 27529

Contact: RALEIGH SHOP
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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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