

WEAR **ABNORMAL** NORMAL CONTAMINATION **FLUID CONDITION** NORMAL



RECOMMENDATION

Area Store 4 - Fairmont [139281] **JOHN DEERE 350G 1FF350GXKHF812003** Component Diesel Engine

JOHN DEERE ENGINE OIL PLUS 50 II 15W40 (7 GAL)

No corrective action is recommended at this time. Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.

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Cylinder, crank, or cam shaft wear is indicated. All other component wear rates are normal.

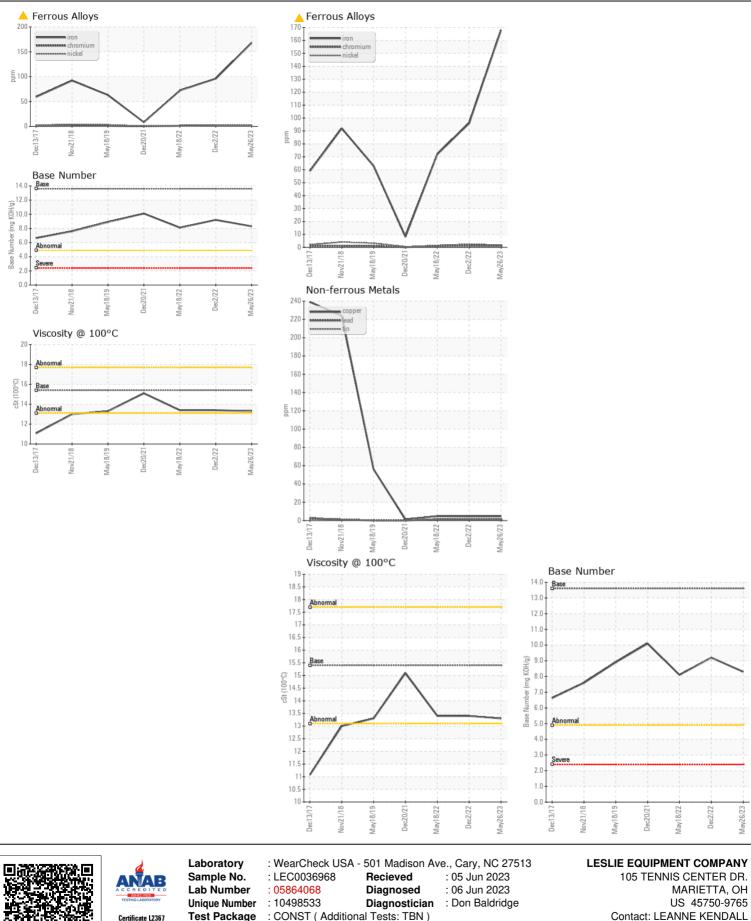
CONTAMINATION

There is no indication of any contamination in the oil.

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.

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|------------------|------------|-------------|-----------|-------------|-------------|-------------------|
| Test | UOM | Method | Limit/Abn | Current | History1 | History2 |
| Sample Number | | Client Info | | LEC0036968 | LEC0034499 | LEC0031557 |
| Sample Date | | Client Info | | 26 May 2023 | 02 Dec 2022 | 18 May 2022 |
| Machine Age | hrs | Client Info | | 4296 | 3654 | 3064 |
| Oil Age | hrs | Client Info | | 642 | 590 | 414 |
| Filter Age | hrs | Client Info | | 642 | 590 | 0 |
| Oil Changed | | Client Info | | Changed | Changed | Changed |
| Filter Changed | | Client Info | | Changed | Changed | Changed |
| Sample Status | | | | ABNORMAL | ABNORMAL | ABNORMAL |
| | | | | | | |
| Iron | ppm | ASTM D5185m | >51 | A 168 | 9 6 | <mark>▲</mark> 72 |
| Chromium | ppm | ASTM D5185m | >11 | 2 | 2 | 1 |
| Nickel | ppm | ASTM D5185m | >5 | <1 | <1 | <1 |
| Titanium | ppm | ASTM D5185m | | <1 | <1 | 0 |
| Silver | ppm | ASTM D5185m | >3 | 0 | 0 | <1 |
| Aluminum | ppm | ASTM D5185m | >31 | 2 | 5 | 4 |
| Lead | ppm | ASTM D5185m | >26 | 1 | 1 | 1 |
| Copper | ppm | ASTM D5185m | >26 | 4 | 5 | 5 |
| Tin | ppm | ASTM D5185m | >4 | <1 | 1 | 1 |
| Vanadium | ppm | ASTM D5185m | | 0 | <1 | <1 |
| White Metal | scalar | *Visual | NONE | NONE | NONE | NONE |
| Yellow Metal | scalar | *Visual | NONE | NONE | NONE | NONE |
| | | | | | | |
| Silicon | ppm | ASTM D5185m | >!20 | 8 | 8 | 7 |
| Potassium | ppm | ASTM D5185m | >20 | 4 | <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 | | 0.7 | 0.7 | 0.5 |
| Nitration | Abs/cm | *ASTM D7624 | >20 | 9.6 | 10.2 | 8.8 |
| Sulfation | Abs/.1mm | *ASTM D7415 | >30 | 24.6 | 25.2 | 22.2 |
| 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 | scalar | *Visual | NORML | NORML | NORML | NORML |
| Emulsified Water | scalar | *Visual | >0.21 | NEG | NEG | NEG |
| Sodium | nnm | ASTM D5185m | >31 | 0 | 6 | 3 |
| Boron | ppm | ASTM D5185m | 201 | 144 | 168 | 170 |
| Barium | ppm ppm | ASTM D5185m | | 0 | 0 | 0 |
| Molybdenum | | ASTM D5185m | | 279 | 244 | 209 |
| Manganese | ppm | ASTM D5185m | | | 1 | 1 |
| Magnesium | ppm | ASTM D5185m | | 2 770 | 788 | 807 |
| Calcium | ppm | ASTM D5185m | | 1525 | 1553 | 1517 |
| Phosphorus | ppm | ASTM D5185m | | | 851 | |
| | ppm | | | 881 | | 842 |
| Zinc | ppm | ASTM D5185m | | 1077 | 1015 | 1031 |
| Sulfur | ppm | ASTM D5185m | 05 | 3130 | 3369 | 2561 |
| Oxidation | Abs/.1mm | *ASTM D7414 | >25 | 18.2 | 18.7 | 16.5 |
| Base Number (BN) | mg KOH/g | ASTM D2896 | 13.6 | 8.3 | 9.2 | 8.1 |
| Visc @ 100°C | cSt | ASTM D445 | 15.4 | 13.3 | 13.4 | 13.4 |



- Certificate L2367 Test Package : CONST (Additional Tests: TBN) 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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