



OIL ANALYSIS REPORT

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

Area

[G14389]

Machine Id

JOHN DEERE 844L 1DW844LXPNL715296

Component

Diesel Engine

Fluid

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

RECOMMENDATION

Resample at the next service interval to monitor.

| Test | UOM | Method | Limit/Abn | Current | History1 | History2 |
|----------------|-----|-------------|-----------|--------------------|-------------|-------------|
| Sample Number | | Client Info | | WE0006073 | WE0004675 | WE0003121 |
| Sample Date | | Client Info | | 23 Feb 2024 | 16 Oct 2023 | 25 Mar 2023 |
| Machine Age | hrs | Client Info | | 1969 | 1337 | 528 |
| Oil Age | hrs | Client Info | | 500 | 0 | 528 |
| Filter Age | hrs | Client Info | | 500 | 0 | 528 |
| Oil Changed | | Client Info | | Changed | Changed | Changed |
| Filter Changed | | Client Info | | Changed | Changed | Changed |
| Sample Status | | | | NORMAL | ABNORMAL | ABNORMAL |

WEAR

All component wear rates are normal.

| | | | | | | |
|--------------|--------|-------------|------|--------------|------|-------|
| Iron | ppm | ASTM D5185m | >51 | 18 | 26 | 45 |
| Chromium | ppm | ASTM D5185m | >11 | <1 | <1 | <1 |
| Nickel | ppm | ASTM D5185m | >5 | <1 | 0 | 0 |
| Titanium | ppm | ASTM D5185m | | 0 | 0 | <1 |
| Silver | ppm | ASTM D5185m | >3 | 0 | 0 | 0 |
| Aluminum | ppm | ASTM D5185m | >31 | 4 | 4 | 4 |
| Lead | ppm | ASTM D5185m | >26 | 12 | 22 | ▲ 17 |
| Copper | ppm | ASTM D5185m | >26 | 26 | ▲ 97 | ▲ 541 |
| Tin | ppm | ASTM D5185m | >4 | 5 | ▲ 7 | ▲ 12 |
| Vanadium | ppm | ASTM D5185m | | <1 | 0 | 0 |
| White Metal | scalar | *Visual | NONE | NONE | NONE | NONE |
| Yellow Metal | scalar | *Visual | NONE | NONE | NONE | NONE |

CONTAMINATION

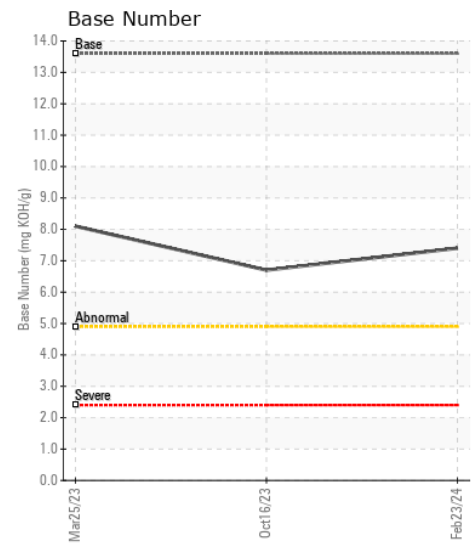
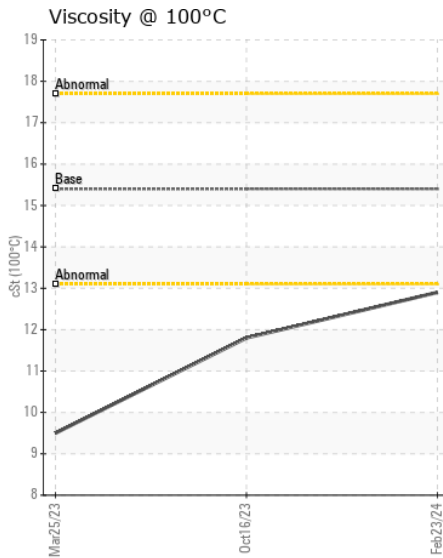
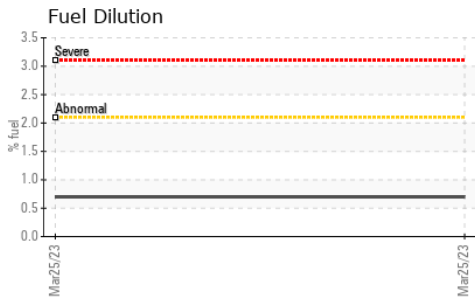
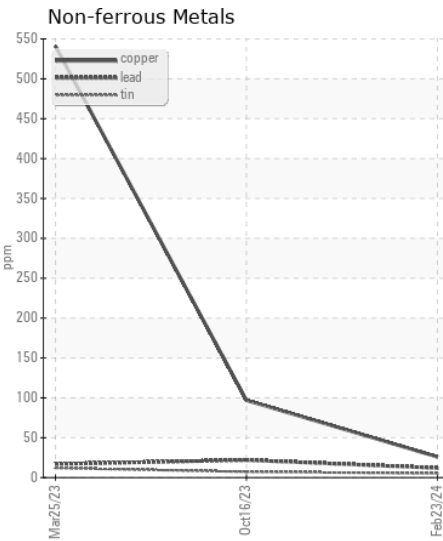
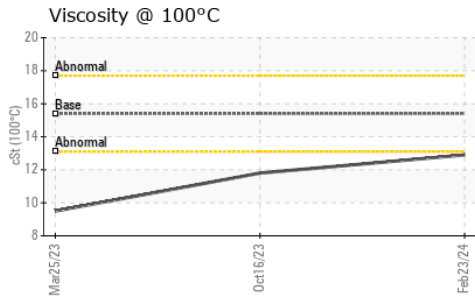
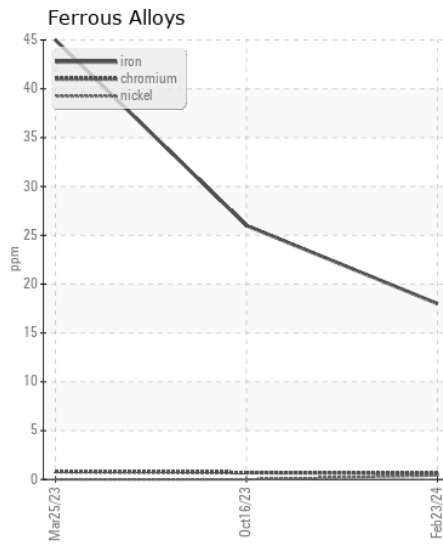
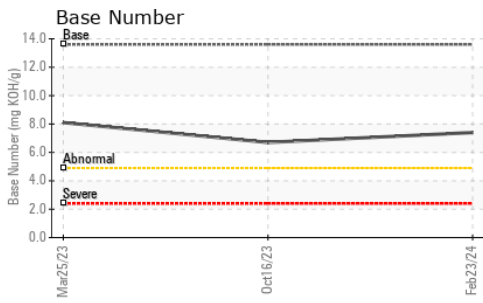
There is no indication of any contamination in the oil.

| | | | | | | |
|------------------|----------|-------------|-------|----------------|-------|-------|
| Silicon | ppm | ASTM D5185m | >22 | 6 | 8 | 15 |
| Potassium | ppm | ASTM D5185m | >20 | 1 | 1 | 4 |
| Fuel | % | ASTM D3524 | >2.1 | <1.0 | <1.0 | 0.7 |
| Water | | WC Method | >0.21 | NEG | NEG | NEG |
| Glycol | | WC Method | | NEG | NEG | 0.0 |
| Soot % | % | *ASTM D7844 | >3 | 0.4 | 0.5 | 0.5 |
| Nitration | Abs/cm | *ASTM D7624 | >20 | 9.6 | 10.1 | 9.4 |
| Sulfation | Abs/.1mm | *ASTM D7415 | >30 | 25.1 | 24.8 | 23.7 |
| 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 suitable for further service.

| | | | | | | |
|------------------|----------|-------------|------|-------------|--------|-------|
| Sodium | ppm | ASTM D5185m | >31 | 4 | 6 | 12 |
| Boron | ppm | ASTM D5185m | | 113 | 39 | 132 |
| Barium | ppm | ASTM D5185m | | 0 | 0 | 0 |
| Molybdenum | ppm | ASTM D5185m | | 261 | 245 | 235 |
| Manganese | ppm | ASTM D5185m | | 1 | 3 | 14 |
| Magnesium | ppm | ASTM D5185m | | 970 | 815 | 770 |
| Calcium | ppm | ASTM D5185m | | 1628 | 1469 | 1400 |
| Phosphorus | ppm | ASTM D5185m | | 873 | 816 | 811 |
| Zinc | ppm | ASTM D5185m | | 1180 | 1026 | 996 |
| Sulfur | ppm | ASTM D5185m | | 3345 | 2826 | 2677 |
| Oxidation | Abs/.1mm | *ASTM D7414 | >25 | 19.1 | 18.8 | 17.5 |
| Base Number (BN) | mg KOH/g | ASTM D2896 | 13.6 | 7.4 | 6.7 | 8.1 |
| Visc @ 100°C | cSt | ASTM D445 | 15.4 | 12.9 | ● 11.8 | ● 9.5 |



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WE0006073
Lab Number : 06104151
Unique Number : 10902381
Test Package : CONST (Additional Tests: FuelDilution, PercentFuel, TBN)

WARRIOR TRACTOR AND EQUIPMENT - GRAYSVILLE
 4308 WATER TRAIL
 GRAYSVILLE, AL
 US 35073
 Contact: BEN BYRKET
 bbyrket@warriortractor.com
 T: (205)675-9045
 F:

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)