



OIL ANALYSIS REPORT

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

Machine Id
JOHN DEERE 850L 1T0850LXVPF439755

Component
Hydraulic System

Fluid
JOHN DEERE HYDRAU (--- GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

| Test | UOM | Method | Limit/Abn | Current | History1 | History2 |
|----------------|-----|-------------|-----------|--------------------|-------------|----------|
| Sample Number | | Client Info | | WE0007401 | WE0005271 | --- |
| Sample Date | | Client Info | | 16 May 2024 | 01 Apr 2024 | --- |
| Machine Age | hrs | Client Info | | 966 | 838 | --- |
| Oil Age | hrs | Client Info | | 0 | 838 | --- |
| Filter Age | hrs | Client Info | | 0 | 838 | --- |
| Oil Changed | | Client Info | | Not Changd | Not Changd | --- |
| Filter Changed | | Client Info | | Not Changd | Not Changd | --- |
| Sample Status | | | | NORMAL | NORMAL | --- |

WEAR

All component wear rates are normal.

| PQ | UOM | Method | Limit/Abn | Current | History1 | History2 |
|--------------|--------|-------------|-----------|--------------|----------|----------|
| Iron | ppm | ASTM D5185m | >20 | 2 | 13 | --- |
| Chromium | ppm | ASTM D5185m | >10 | <1 | <1 | --- |
| Nickel | ppm | ASTM D5185m | >10 | 0 | 0 | --- |
| Titanium | ppm | ASTM D5185m | | 0 | 0 | --- |
| Silver | ppm | ASTM D5185m | | 0 | 0 | --- |
| Aluminum | ppm | ASTM D5185m | >10 | <1 | 2 | --- |
| Lead | ppm | ASTM D5185m | >10 | 1 | 0 | --- |
| Copper | ppm | ASTM D5185m | >75 | <1 | 6 | --- |
| Tin | ppm | ASTM D5185m | >10 | <1 | 0 | --- |
| Vanadium | ppm | ASTM D5185m | | 0 | 0 | --- |
| White Metal | scalar | *Visual | NONE | NONE | NONE | --- |
| Yellow Metal | scalar | *Visual | NONE | NONE | NONE | --- |

CONTAMINATION

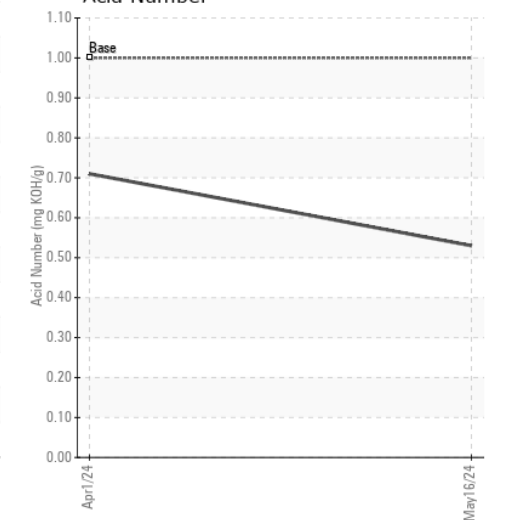
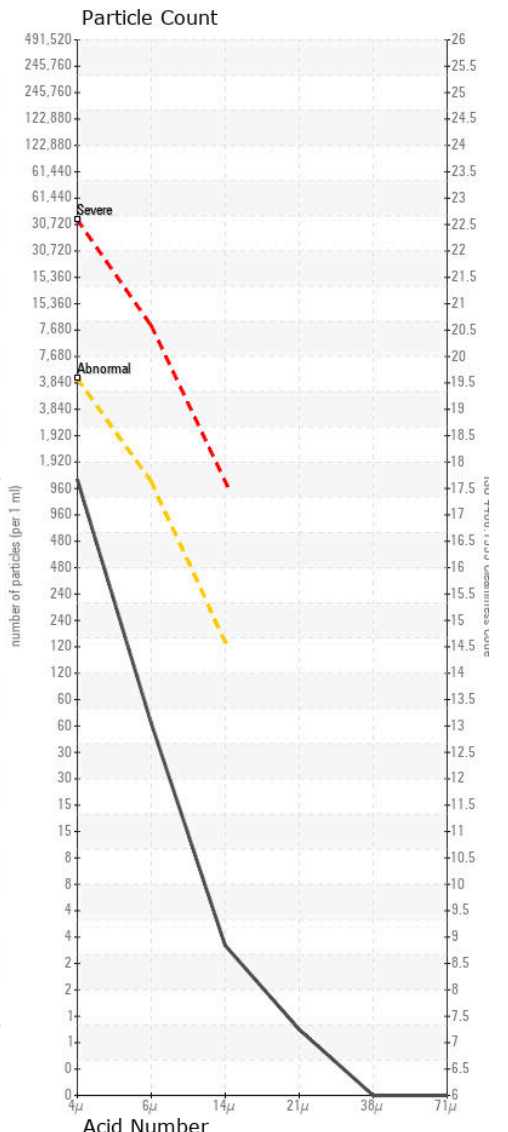
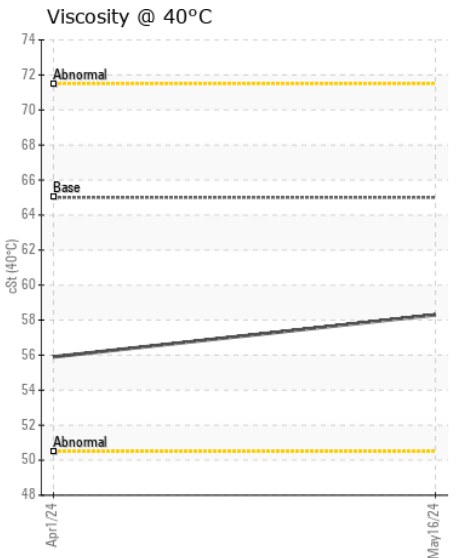
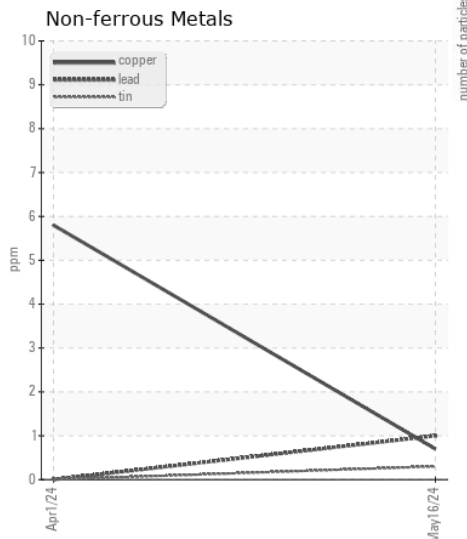
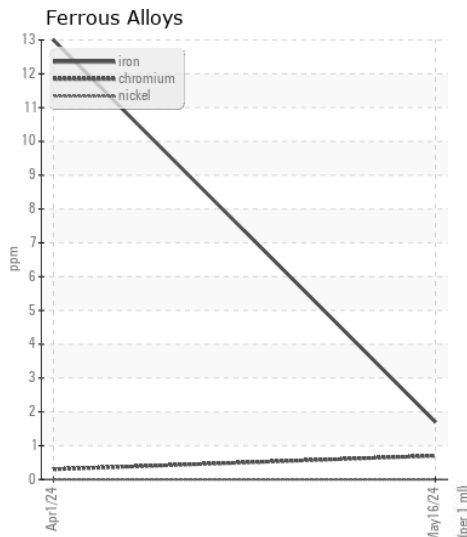
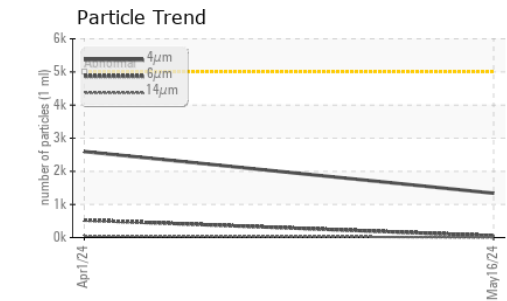
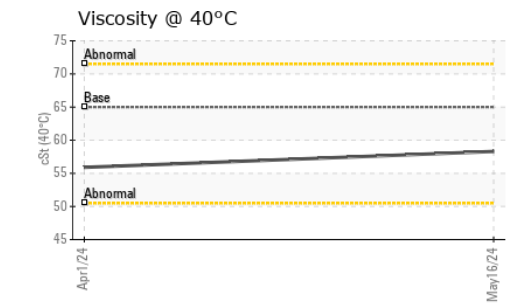
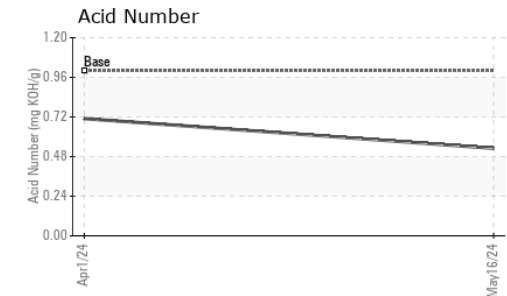
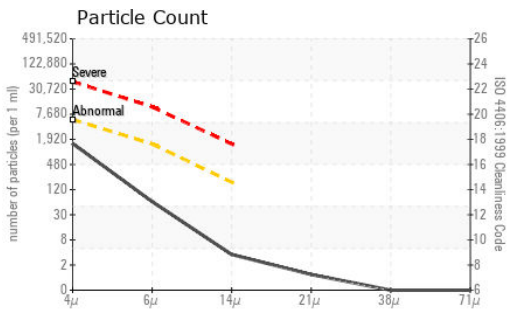
The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The system and fluid cleanliness is acceptable.

| | | | | | | |
|------------------|--------|--------------|-----------|----------------|----------|-----|
| Silicon | ppm | ASTM D5185m | >20 | 2 | <1 | --- |
| Potassium | ppm | ASTM D5185m | >20 | 3 | 4 | --- |
| Water | | WC Method | >0.1 | NEG | NEG | --- |
| Particles >4µm | | ASTM D7647 | >5000 | 1339 | 2597 | --- |
| Particles >6µm | | ASTM D7647 | >1300 | 55 | 527 | --- |
| Particles >14µm | | ASTM D7647 | >160 | 3 | 53 | --- |
| Particles >21µm | | ASTM D7647 | >40 | 1 | 19 | --- |
| Particles >38µm | | ASTM D7647 | >10 | 0 | 0 | --- |
| Particles >71µm | | ASTM D7647 | >3 | 0 | 0 | --- |
| Oil Cleanliness | | ISO 4406 (c) | >19/17/14 | 18/13/9 | 19/16/13 | --- |
| Silt | scalar | *Visual | NONE | NONE | NONE | --- |
| Debris | scalar | *Visual | NONE | NONE | NONE | --- |
| Sand/Dirt | scalar | *Visual | NONE | NONE | NONE | --- |
| Appearance | scalar | *Visual | NORML | NORML | NORML | --- |
| Odor | scalar | *Visual | NORML | NORML | NORML | --- |
| Emulsified Water | scalar | *Visual | >0.1 | NEG | NEG | --- |

FLUID CONDITION

The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

| | | | | | | |
|------------------|----------|-------------|------|--------------|------|-----|
| Sodium | ppm | ASTM D5185m | | <1 | 1 | --- |
| Boron | ppm | ASTM D5185m | | 0 | 0 | --- |
| Barium | ppm | ASTM D5185m | | 0 | 0 | --- |
| Molybdenum | ppm | ASTM D5185m | | <1 | 0 | --- |
| Manganese | ppm | ASTM D5185m | | <1 | <1 | --- |
| Magnesium | ppm | ASTM D5185m | | 0 | 4 | --- |
| Calcium | ppm | ASTM D5185m | 87 | 84 | 150 | --- |
| Phosphorus | ppm | ASTM D5185m | 727 | 664 | 970 | --- |
| Zinc | ppm | ASTM D5185m | 900 | 826 | 1235 | --- |
| Sulfur | ppm | ASTM D5185m | 1500 | 1853 | 2454 | --- |
| Acid Number (AN) | mg KOH/g | ASTM D8045 | 1.0 | 0.53 | 0.71 | --- |
| Visc @ 40°C | cSt | ASTM D445 | 65 | 58.3 | 55.9 | --- |



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WE0007401 **Received** : 21 May 2024
Lab Number : 06186050 **Tested** : 22 May 2024
Unique Number : 11042802 **Diagnosed** : 22 May 2024 - Wes Davis
Test Package : CONST (Additional Tests: PQ)

WARRIOR TRACTOR AND EQUIPMENT - MONROEVILLE
 66 INDUSTRIAL PARK DR
 MONROEVILLE, AL
 US 36460
 Contact: SCOTT WILLIAMSON
 swilliamson@warriortractor.com
 T: (251)575-7111
 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)