



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

Machine Id
JOHN DEERE 844L 1DW844LXEKF697338

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 | | JR0225305 | JR0214746 | JR0190190 |
| Sample Date | | Client Info | | 08 Jul 2024 | 01 May 2024 | 24 Oct 2023 |
| Machine Age | hrs | Client Info | | 8488 | 7980 | 7483 |
| Oil Age | hrs | Client Info | | 508 | 4527 | 3500 |
| Filter Age | hrs | Client Info | | 0 | 0 | 3500 |
| Oil Changed | | Client Info | | Not Chngd | Changed | Not Chngd |
| Filter Changed | | Client Info | | Not Chngd | Changed | Not Chngd |
| Sample Status | | | | NORMAL | ATTENTION | ABNORMAL |

WEAR

All component wear rates are normal.

| PQ | UOM | Method | Limit/Abn | Current | History1 | History2 |
|--------------|--------|-------------|-----------|--------------|----------|----------|
| Iron | ppm | ASTM D5185m | >20 | 24 | 46 | 41 |
| Chromium | ppm | ASTM D5185m | >10 | 8 | 15 | 12 |
| Nickel | ppm | ASTM D5185m | >10 | <1 | 0 | 0 |
| Titanium | ppm | ASTM D5185m | | <1 | <1 | <1 |
| Silver | ppm | ASTM D5185m | | <1 | 0 | 0 |
| Aluminum | ppm | ASTM D5185m | >10 | 2 | 6 | 5 |
| Lead | ppm | ASTM D5185m | >10 | <1 | 0 | 0 |
| Copper | ppm | ASTM D5185m | >75 | 3 | 4 | 4 |
| Tin | ppm | ASTM D5185m | >10 | <1 | 0 | 0 |
| Vanadium | ppm | ASTM D5185m | | <1 | 0 | 0 |
| White Metal | scalar | *Visual | NONE | NONE | NONE | NONE |
| Yellow Metal | scalar | *Visual | NONE | NONE | NONE | NONE |

CONTAMINATION

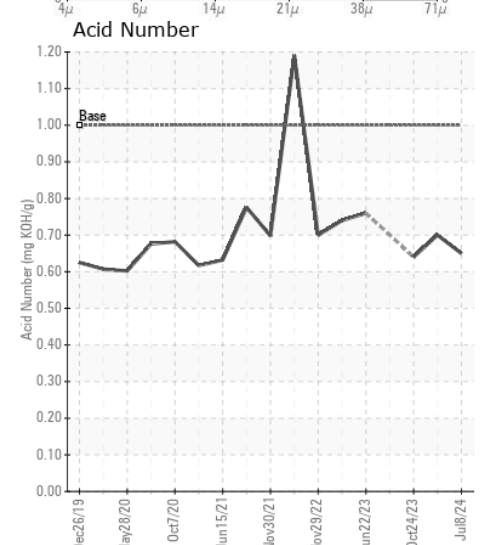
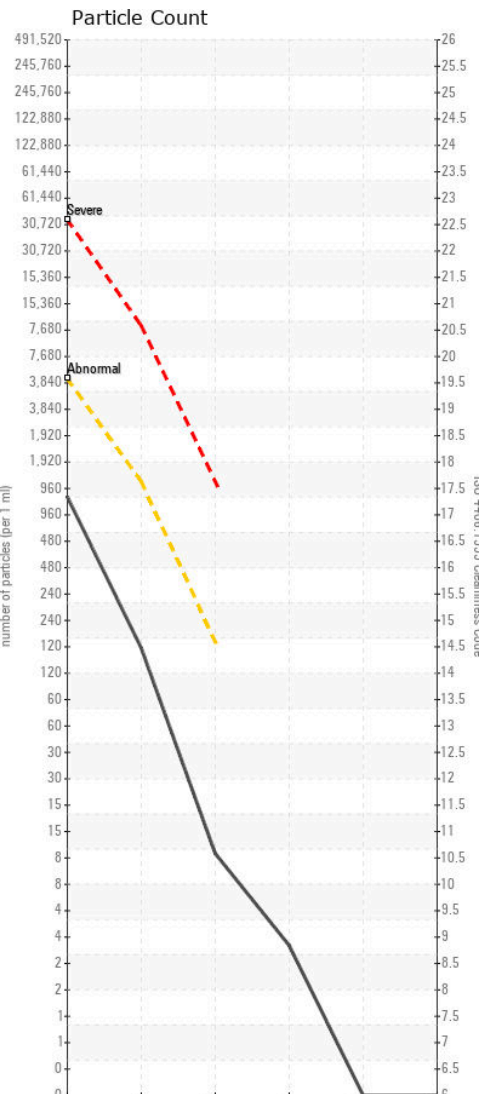
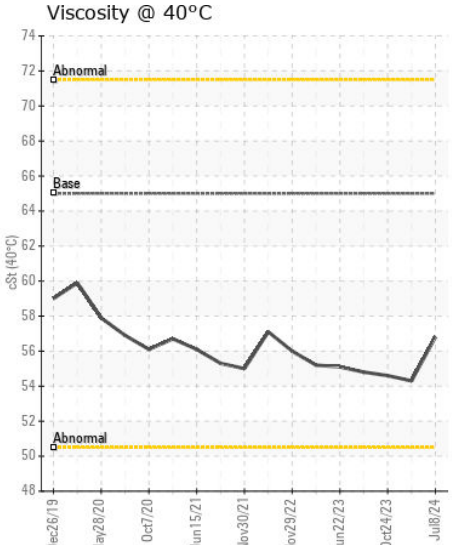
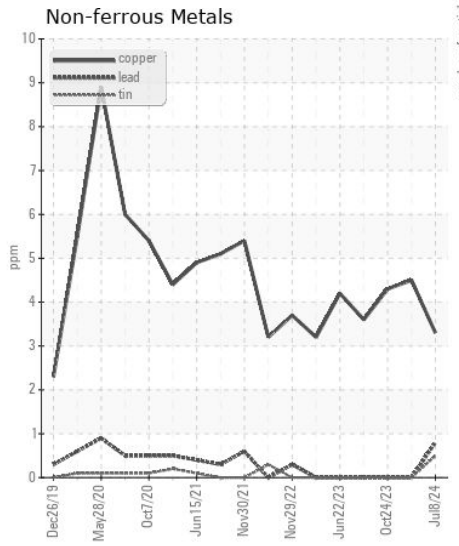
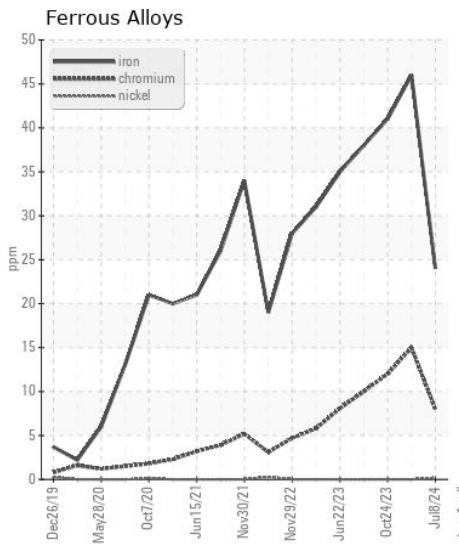
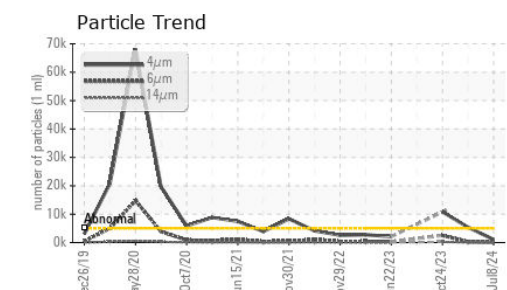
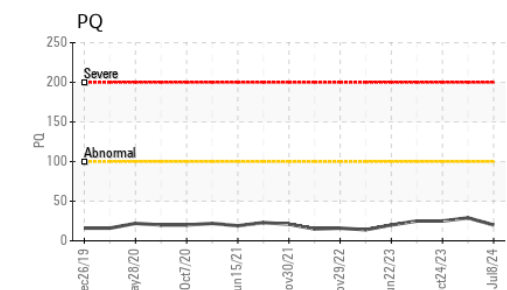
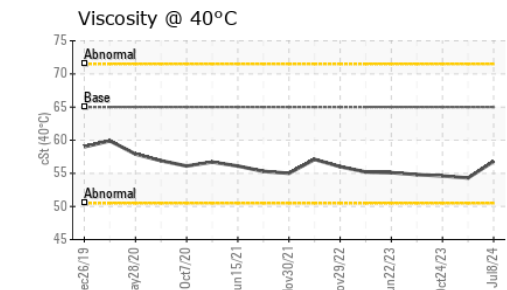
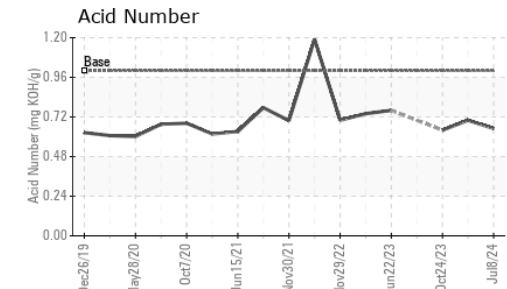
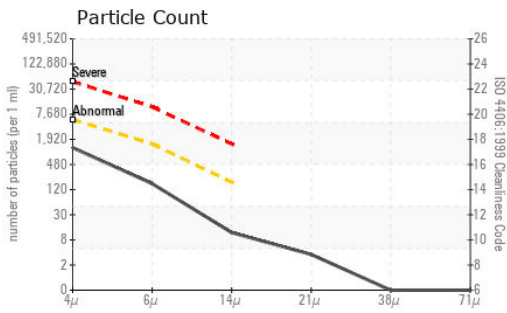
The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The system and fluid cleanliness is acceptable.

| Test | UOM | Method | Limit/Abn | Current | History1 | History2 |
|------------------|--------|--------------|-----------|-----------------|----------|----------|
| Silicon | ppm | ASTM D5185m | >20 | 6 | 10 | 10 |
| Potassium | ppm | ASTM D5185m | >20 | 2 | 0 | <1 |
| Water | | WC Method | >0.1 | NEG | NEG | NEG |
| Particles >4µm | | ASTM D7647 | >5000 | 1065 | 5379 | 10819 |
| Particles >6µm | | ASTM D7647 | >1300 | 147 | 307 | 2489 |
| Particles >14µm | | ASTM D7647 | >160 | 10 | 29 | 226 |
| Particles >21µm | | ASTM D7647 | >40 | 3 | 8 | 67 |
| Particles >38µm | | ASTM D7647 | >10 | 0 | 1 | 2 |
| Particles >71µm | | ASTM D7647 | >3 | 0 | 0 | 1 |
| Oil Cleanliness | | ISO 4406 (c) | >19/17/14 | 17/14/10 | 20/15/12 | 21/18/15 |
| 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 | >0.1 | NEG | NEG | NEG |

FLUID CONDITION

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

| Test | UOM | Method | Limit/Abn | Current | History1 | History2 |
|------------------|----------|-------------|-----------|--------------|----------|----------|
| Sodium | ppm | ASTM D5185m | | 3 | 10 | 9 |
| Boron | ppm | ASTM D5185m | | <1 | 0 | 0 |
| Barium | ppm | ASTM D5185m | | 1 | 0 | 0 |
| Molybdenum | ppm | ASTM D5185m | | 2 | 2 | 2 |
| Manganese | ppm | ASTM D5185m | | <1 | <1 | <1 |
| Magnesium | ppm | ASTM D5185m | | 10 | 9 | 8 |
| Calcium | ppm | ASTM D5185m | 87 | 171 | 124 | 108 |
| Phosphorus | ppm | ASTM D5185m | 727 | 683 | 660 | 623 |
| Zinc | ppm | ASTM D5185m | 900 | 868 | 789 | 755 |
| Sulfur | ppm | ASTM D5185m | 1500 | 1655 | 1845 | 1470 |
| Acid Number (AN) | mg KOH/g | ASTM D8045 | 1.0 | 0.65 | 0.70 | 0.64 |
| Visc @ 40°C | cSt | ASTM D445 | 65 | 56.8 | 54.3 | 54.6 |



Certificate L2367

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

Sample No. : JR0225305

Lab Number : 06231418

Unique Number : 11114911

Test Package : CONST (Additional Tests: PQ)

Received : 09 Jul 2024

Tested : 10 Jul 2024

Diagnosed : 10 Jul 2024 - Wes Davis

SUPERIOR PAVING CORP

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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)