



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

Area
[W21687-H&M]

Machine Id
JOHN DEERE 843L 1DW843LBPMF711373

Component
Hydraulic System

Fluid
{not provided} (--- GAL)

RECOMMENDATION

We advise that you check for the source of water entry. Oil and filter change at the time of sampling has been noted. We recommend an early resample to monitor this condition. There is too much water present in this sample to perform a particle count.

| Test | UOM | Method | Limit/Abn | Current | History1 | History2 |
|----------------|-----|-------------|-----------|--------------------|-------------|----------|
| Sample Number | | Client Info | | JR0210864 | JR0089471 | --- |
| Sample Date | | Client Info | | 11 Apr 2024 | 23 Sep 2021 | --- |
| Machine Age | hrs | Client Info | | 4550 | 554 | --- |
| Oil Age | hrs | Client Info | | 0 | 554 | --- |
| Filter Age | hrs | Client Info | | 0 | 554 | --- |
| Oil Changed | | Client Info | | Changed | Not Changd | --- |
| Filter Changed | | Client Info | | Changed | Not Changd | --- |
| Sample Status | | | | SEVERE | NORMAL | --- |

WEAR

All component wear rates are normal.

| PQ | UOM | Method | Limit/Abn | Current | History1 | History2 |
|--------------|--------|-------------|-----------|--------------|----------|----------|
| Iron | ppm | ASTM D5185m | >20 | 18 | 3 | --- |
| Chromium | ppm | ASTM D5185m | >10 | 1 | <1 | --- |
| Nickel | ppm | ASTM D5185m | >10 | <1 | 0 | --- |
| Titanium | ppm | ASTM D5185m | | <1 | 0 | --- |
| Silver | ppm | ASTM D5185m | | <1 | 0 | --- |
| Aluminum | ppm | ASTM D5185m | >10 | 1 | <1 | --- |
| Lead | ppm | ASTM D5185m | >10 | 2 | <1 | --- |
| Copper | ppm | ASTM D5185m | >75 | 4 | 2 | --- |
| Tin | ppm | ASTM D5185m | >10 | 2 | <1 | --- |
| Vanadium | ppm | ASTM D5185m | | <1 | 0 | --- |
| White Metal | scalar | *Visual | NONE | NONE | NONE | --- |
| Yellow Metal | scalar | *Visual | NONE | NONE | NONE | --- |

CONTAMINATION

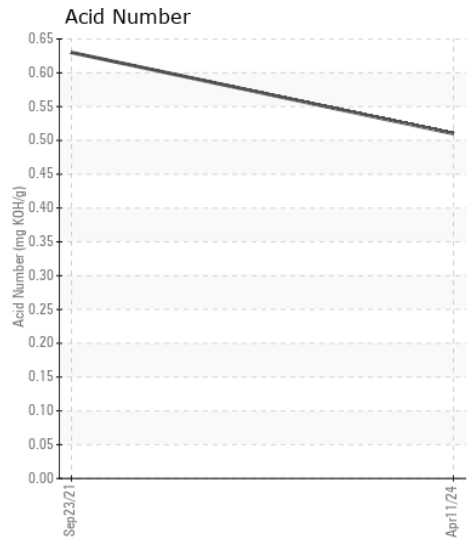
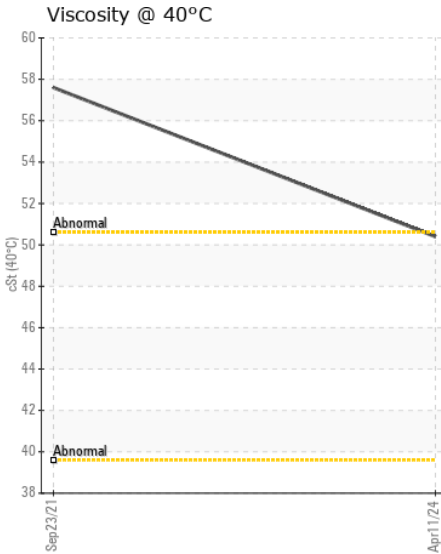
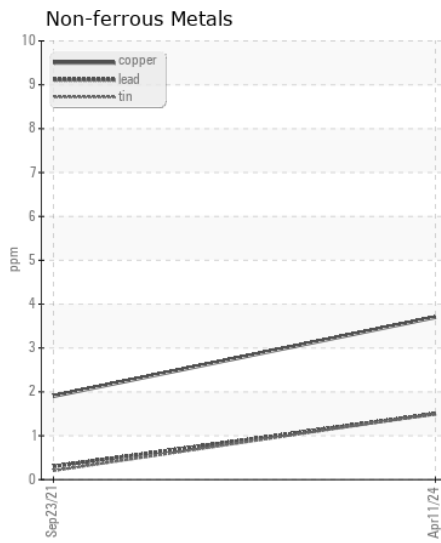
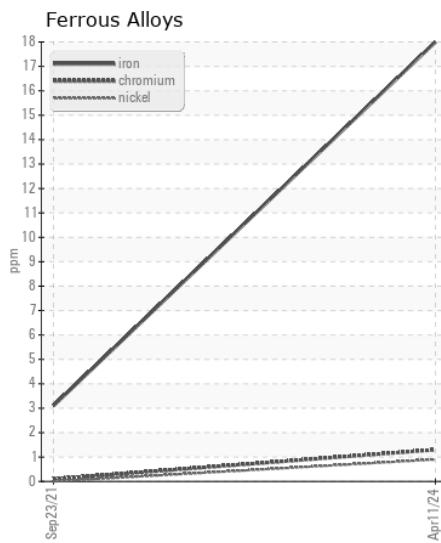
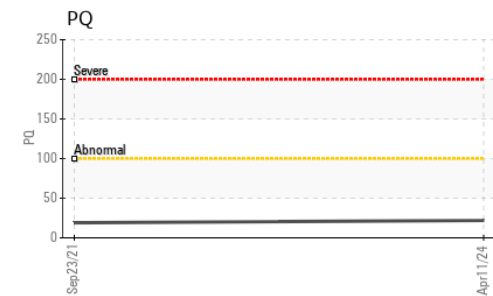
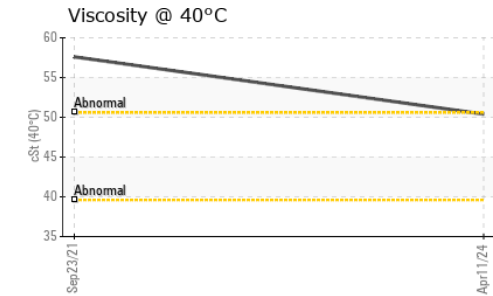
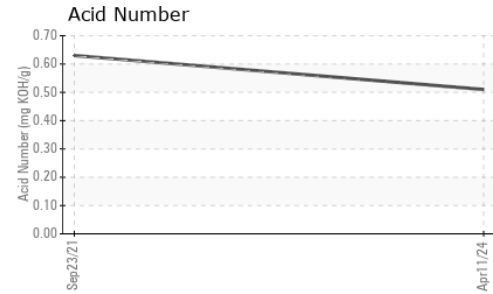
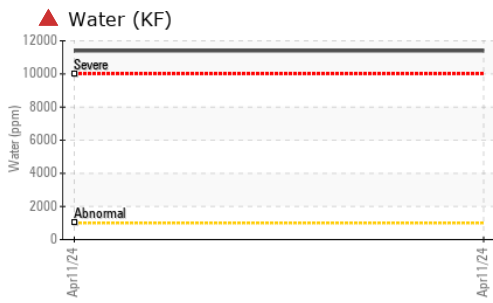
There is a high concentration of water present in the oil.

| | | | | | | |
|------------------|--------|--------------|-----------|----------------|----------|-----|
| Silicon | ppm | ASTM D5185m | >20 | 4 | 5 | --- |
| Potassium | ppm | ASTM D5185m | >20 | 3 | 3 | --- |
| Water | % | ASTM D6304 | >0.1 | ▲ 1.14 | --- | --- |
| ppm Water | ppm | ASTM D6304 | >1000 | ▲ 11400 | --- | --- |
| Particles >4µm | | ASTM D7647 | >5000 | --- | 667 | --- |
| Particles >6µm | | ASTM D7647 | >1300 | --- | 117 | --- |
| Particles >14µm | | ASTM D7647 | >160 | --- | 9 | --- |
| Particles >21µm | | ASTM D7647 | >40 | --- | 3 | --- |
| Particles >38µm | | ASTM D7647 | >10 | --- | 0 | --- |
| Particles >71µm | | ASTM D7647 | >3 | --- | 0 | --- |
| Oil Cleanliness | | ISO 4406 (c) | >19/17/14 | --- | 17/14/10 | --- |
| Silt | scalar | *Visual | NONE | NONE | NONE | --- |
| Debris | scalar | *Visual | NONE | NONE | NONE | --- |
| Sand/Dirt | scalar | *Visual | NONE | NONE | NONE | --- |
| Appearance | scalar | *Visual | NORML | ● MILKY | NORML | --- |
| Odor | scalar | *Visual | NORML | NORML | NORML | --- |
| Emulsified Water | scalar | *Visual | >0.1 | ▲ 0.2% | NEG | --- |

FLUID CONDITION

The AN level is acceptable for this fluid. The oil is no longer serviceable due to the presence of contaminants.

| | | | | | | |
|------------------|----------|-------------|--|-------------|-------|-----|
| Sodium | ppm | ASTM D5185m | | 0 | <1 | --- |
| Boron | ppm | ASTM D5185m | | 2 | 0 | --- |
| Barium | ppm | ASTM D5185m | | 0 | 0 | --- |
| Molybdenum | ppm | ASTM D5185m | | 3 | <1 | --- |
| Manganese | ppm | ASTM D5185m | | 1 | <1 | --- |
| Magnesium | ppm | ASTM D5185m | | 13 | 2 | --- |
| Calcium | ppm | ASTM D5185m | | 181 | 81 | --- |
| Phosphorus | ppm | ASTM D5185m | | 505 | 557 | --- |
| Zinc | ppm | ASTM D5185m | | 571 | 770 | --- |
| Sulfur | ppm | ASTM D5185m | | 1809 | 1372 | --- |
| Acid Number (AN) | mg KOH/g | ASTM D8045 | | 0.51 | 0.630 | --- |
| Visc @ 40°C | cSt | ASTM D445 | | 50.4 | 57.6 | --- |



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : JR0210864 **Received** : 12 Apr 2024
Lab Number : 06147215 **Tested** : 16 Apr 2024
Unique Number : 10977293 **Diagnosed** : 16 Apr 2024 - Don Baldrige
Test Package : CONST (Additional Tests: KF, PQ)

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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)