



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

Area
[W50183]
 Machine Id
JOHN DEERE 843L 1DW843LBCLF708038
 Component
Hydraulic System
 Fluid
JOHN DEERE HYDRAU (--- GAL)

RECOMMENDATION

No corrective action is recommended at this time. Resample at the next service interval to monitor.

| Test | UOM | Method | Limit/Abn | Current | History1 | History2 |
|----------------|-----|-------------|-----------|--------------------|-------------|-------------|
| Sample Number | | Client Info | | JR0180753 | JR0106215 | JR0076045 |
| Sample Date | | Client Info | | 28 Feb 2024 | 20 Dec 2021 | 09 Apr 2021 |
| Machine Age | hrs | Client Info | | 4902 | 1671 | 515 |
| Oil Age | hrs | Client Info | | 0 | 1671 | 515 |
| Filter Age | hrs | Client Info | | 0 | 0 | 515 |
| Oil Changed | | Client Info | | N/A | Not Changd | Not Changd |
| Filter Changed | | Client Info | | N/A | Not Changd | Not Changd |
| Sample Status | | | | ATTENTION | ABNORMAL | ABNORMAL |

WEAR

All component wear rates are normal.

| PQ | UOM | Method | Limit/Abn | Current | History1 | History2 |
|--------------|--------|-------------|-----------|--------------|----------|----------|
| Iron | ppm | ASTM D5185m | >20 | 2 | 5 | 2 |
| Chromium | ppm | ASTM D5185m | >10 | 0 | <1 | 0 |
| Nickel | ppm | ASTM D5185m | >10 | 0 | 0 | 0 |
| Titanium | ppm | ASTM D5185m | | 0 | 0 | 0 |
| Silver | ppm | ASTM D5185m | | 0 | <1 | <1 |
| Aluminum | ppm | ASTM D5185m | >10 | <1 | <1 | 0 |
| Lead | ppm | ASTM D5185m | >10 | <1 | 0 | <1 |
| Copper | ppm | ASTM D5185m | >75 | 3 | 6 | 1 |
| Tin | ppm | ASTM D5185m | >10 | 0 | <1 | 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

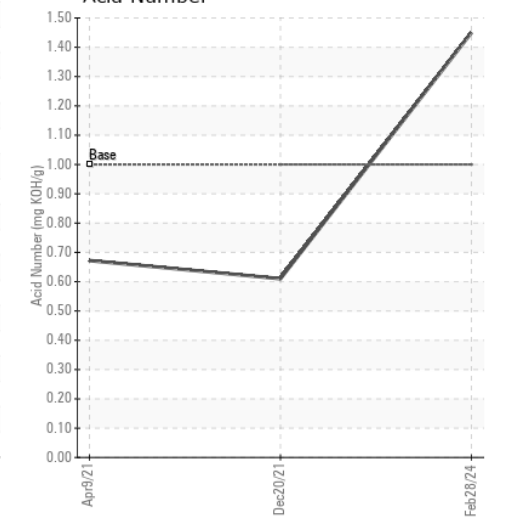
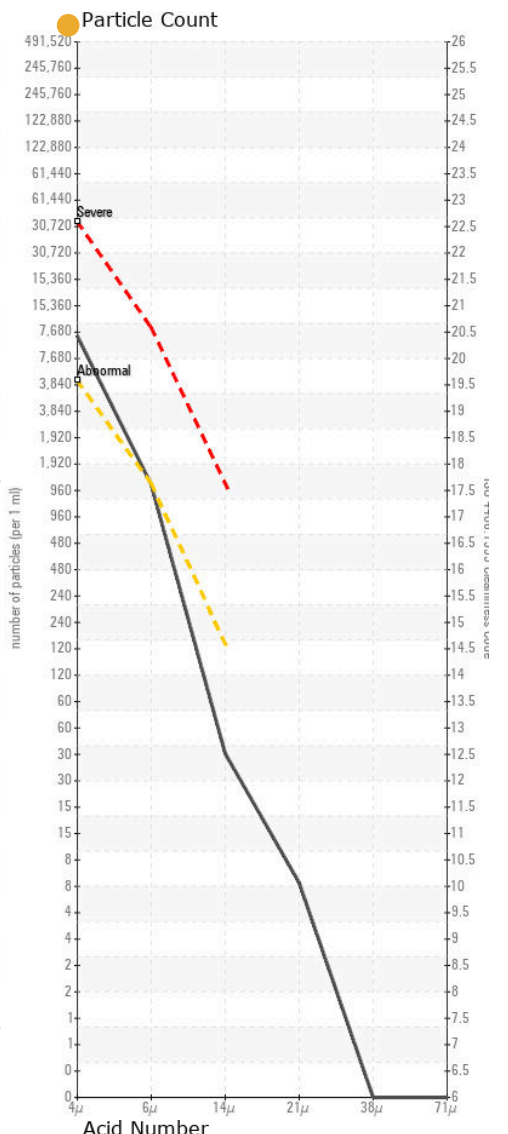
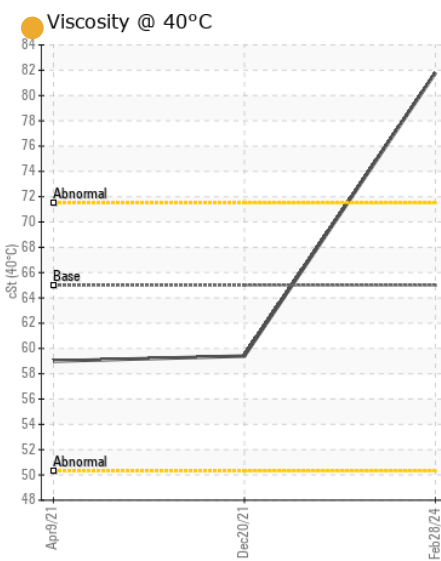
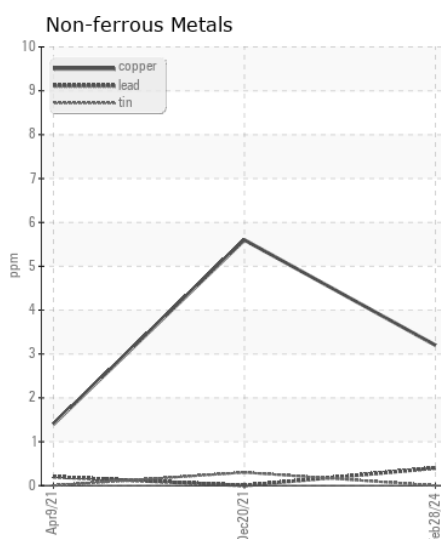
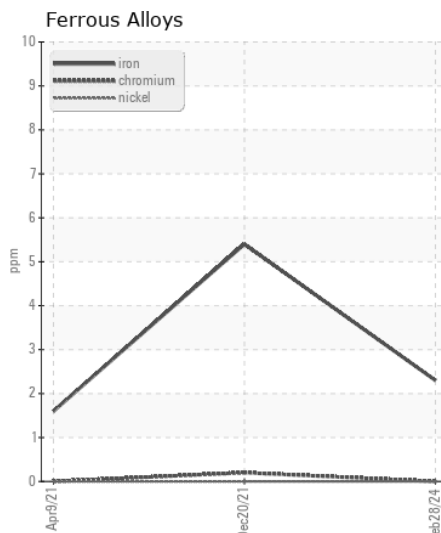
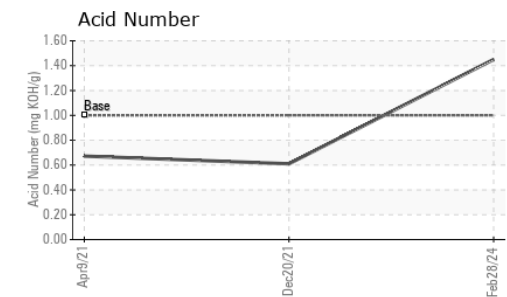
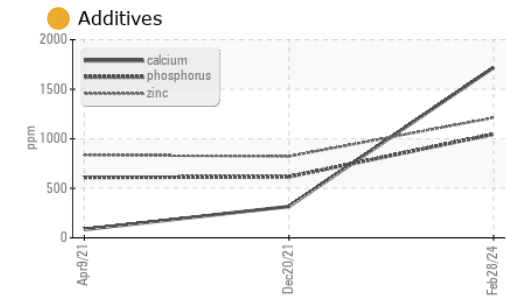
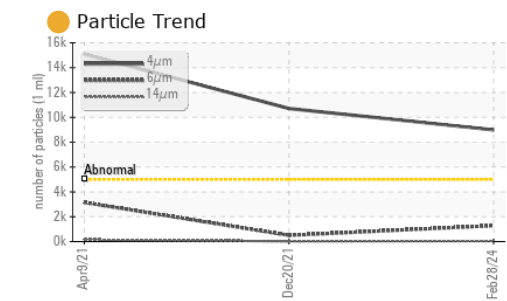
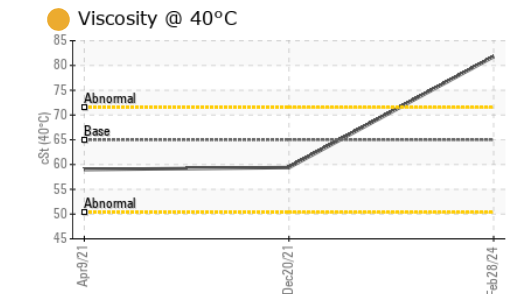
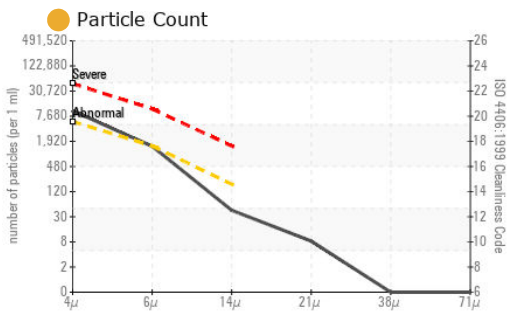
There is a moderate amount of silt (particulates < 14 microns in size) present in the oil.

| | | | | | | |
|------------------|--------|--------------|-----------|-----------------|------------|------------|
| Silicon | ppm | ASTM D5185m | >20 | 3 | 4 | 3 |
| Potassium | ppm | ASTM D5185m | >20 | 0 | <1 | <1 |
| Water | | WC Method | >0.1 | NEG | NEG | NEG |
| Particles >4µm | | ASTM D7647 | >5000 | 8989 | ▲ 10712 | ▲ 15090 |
| Particles >6µm | | ASTM D7647 | >1300 | 1282 | 501 | ▲ 3148 |
| Particles >14µm | | ASTM D7647 | >160 | 38 | 18 | 152 |
| Particles >21µm | | ASTM D7647 | >40 | 7 | 3 | 31 |
| Particles >38µm | | ASTM D7647 | >10 | 0 | 0 | 0 |
| Particles >71µm | | ASTM D7647 | >3 | 0 | 0 | 0 |
| Oil Cleanliness | | ISO 4406 (c) | >19/17/14 | 20/17/12 | ▲ 21/16/11 | ▲ 21/19/14 |
| 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 oil viscosity is higher than normal. This plus the additive levels indicates the addition of a different brand, or type of oil. Confirm oil type. The AN level is acceptable for this fluid.

| | | | | | | |
|------------------|----------|-------------|------|-------------|-------|-------|
| Sodium | ppm | ASTM D5185m | | 2 | <1 | 0 |
| Boron | ppm | ASTM D5185m | | 7 | 0 | 0 |
| Barium | ppm | ASTM D5185m | | 0 | 0 | 0 |
| Molybdenum | ppm | ASTM D5185m | | 49 | 12 | <1 |
| Manganese | ppm | ASTM D5185m | | 0 | <1 | <1 |
| Magnesium | ppm | ASTM D5185m | | 333 | 2 | 2 |
| Calcium | ppm | ASTM D5185m | 87 | 1719 | 316 | 84 |
| Phosphorus | ppm | ASTM D5185m | 727 | 1046 | 615 | 609 |
| Zinc | ppm | ASTM D5185m | 900 | 1212 | 822 | 835 |
| Sulfur | ppm | ASTM D5185m | 1500 | 3332 | 1741 | 1362 |
| Acid Number (AN) | mg KOH/g | ASTM D8045 | 1.0 | 1.45 | 0.610 | 0.672 |
| Visc @ 40°C | cSt | ASTM D445 | 65 | 81.8 | 59.4 | 59.0 |



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : JR0180753 **Received** : 29 Feb 2024
Lab Number : 06105108 **Tested** : 01 Mar 2024
Unique Number : 10903338 **Diagnosed** : 04 Mar 2024 - Don Baldrige
Test Package : CONST (Additional Tests: 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)