



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

Area
[FALLING OAK]
 Machine Id
JOHN DEERE 748L 715610
 Component
Hydraulic System
 Fluid
{not provided} (--- QTS)

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 | | JR0209533 | JR0164607 | JR0165175 |
| Sample Date | | Client Info | | 19 Mar 2024 | 06 Dec 2023 | 01 Aug 2023 |
| Machine Age | hrs | Client Info | | 0 | 2523 | 1768 |
| Oil Age | hrs | Client Info | | 0 | 2523 | 0 |
| Filter Age | hrs | Client Info | | 0 | 2523 | 0 |
| Oil Changed | | Client Info | | N/A | N/A | Not Chngd |
| Filter Changed | | Client Info | | N/A | N/A | Not Chngd |
| Sample Status | | | | ABNORMAL | ABNORMAL | ATTENTION |

WEAR

All component wear rates are normal.

| PQ | UOM | Method | Limit/Abn | Current | History1 | History2 |
|--------------|--------|-------------|-----------|--------------|----------|----------|
| Iron | ppm | ASTM D5185m | >20 | 11 | 7 | 5 |
| Chromium | ppm | ASTM D5185m | >10 | 4 | 2 | 2 |
| Nickel | ppm | ASTM D5185m | >10 | 0 | 0 | 0 |
| Titanium | ppm | ASTM D5185m | | 0 | 0 | 0 |
| Silver | ppm | ASTM D5185m | | 0 | 0 | 0 |
| Aluminum | ppm | ASTM D5185m | >10 | <1 | 1 | <1 |
| Lead | ppm | ASTM D5185m | >10 | 0 | 0 | 0 |
| Copper | ppm | ASTM D5185m | >75 | 2 | 1 | 3 |
| Tin | ppm | ASTM D5185m | >10 | <1 | 0 | 0 |
| Vanadium | ppm | ASTM D5185m | | 0 | 0 | <1 |
| White Metal | scalar | *Visual | NONE | NONE | NONE | NONE |
| Yellow Metal | scalar | *Visual | NONE | NONE | NONE | NONE |

CONTAMINATION

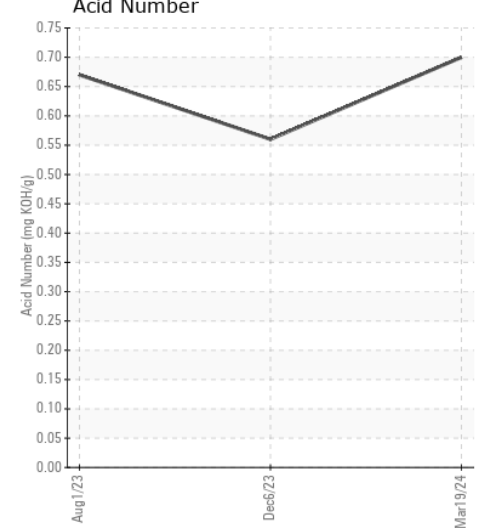
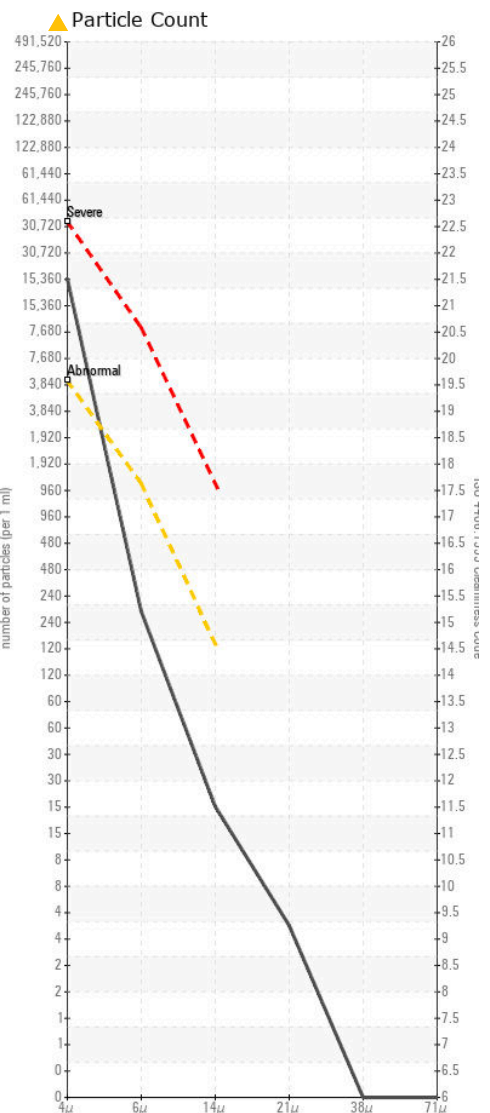
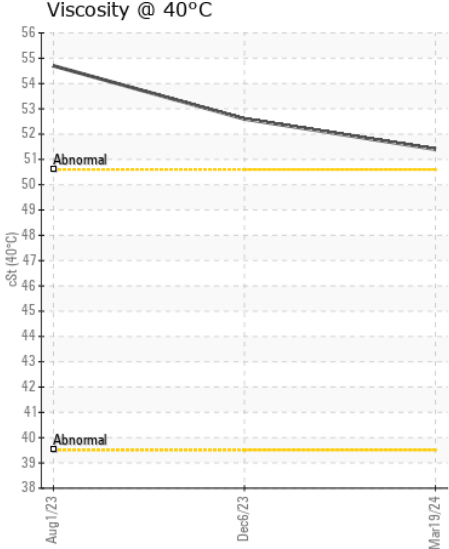
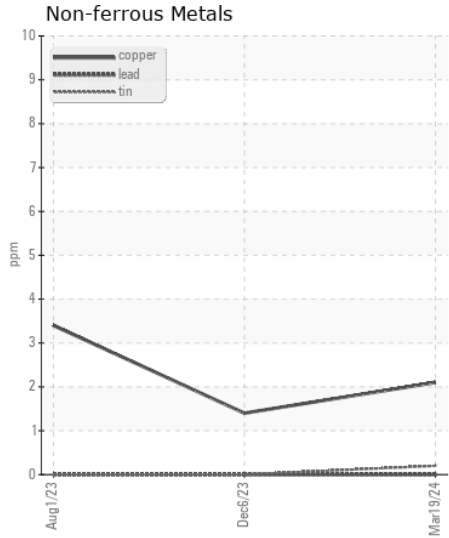
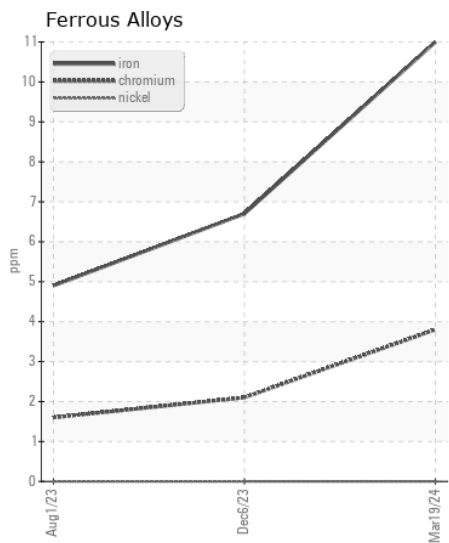
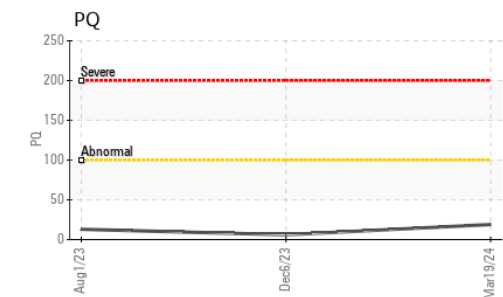
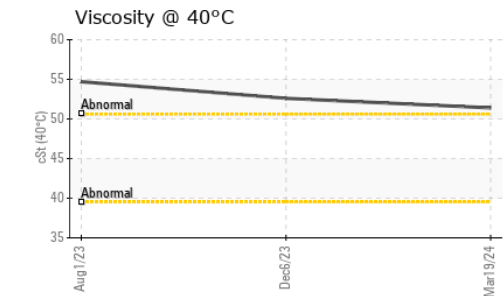
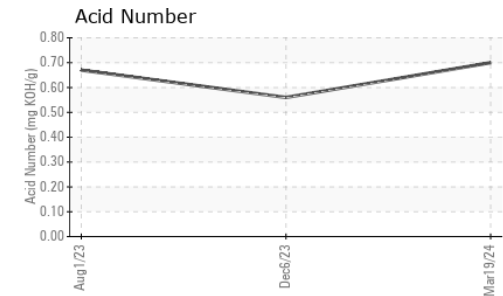
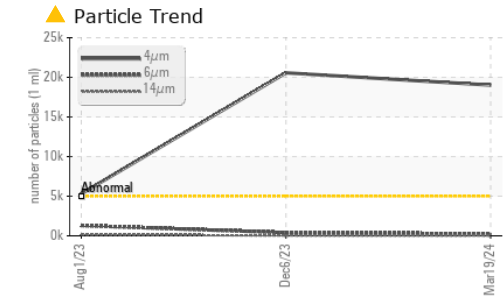
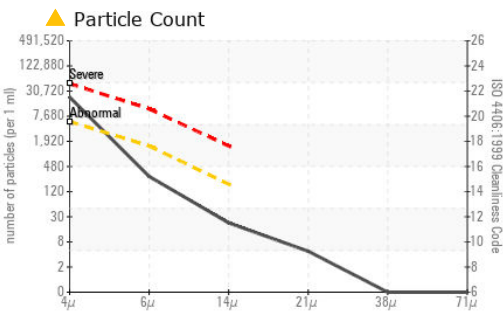
There is a high amount of silt (particulates < 14 microns in size) present in the oil.

| | | | | | | |
|------------------|--------|--------------|-----------|-------------------|------------|------------|
| Silicon | ppm | ASTM D5185m | >20 | 15 | 13 | 12 |
| Potassium | ppm | ASTM D5185m | >20 | 1 | 3 | 1 |
| Water | | WC Method | >0.1 | NEG | NEG | NEG |
| Particles >4µm | | ASTM D7647 | >5000 | ▲ 19018 | ▲ 20568 | ● 5304 |
| Particles >6µm | | ASTM D7647 | >1300 | 244 | 397 | 1300 |
| Particles >14µm | | ASTM D7647 | >160 | 19 | 31 | 138 |
| Particles >21µm | | ASTM D7647 | >40 | 4 | 8 | 34 |
| Particles >38µm | | ASTM D7647 | >10 | 0 | 0 | 1 |
| Particles >71µm | | ASTM D7647 | >3 | 0 | 0 | 0 |
| Oil Cleanliness | | ISO 4406 (c) | >19/17/14 | ▲ 21/15/11 | ▲ 22/16/12 | ● 20/17/14 |
| 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 AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

| | | | | | | |
|------------------|----------|-------------|--|--------------|------|------|
| Sodium | ppm | ASTM D5185m | | 2 | 2 | 2 |
| Boron | ppm | ASTM D5185m | | 0 | 0 | 0 |
| Barium | ppm | ASTM D5185m | | 0 | 4 | 0 |
| Molybdenum | ppm | ASTM D5185m | | 1 | 0 | <1 |
| Manganese | ppm | ASTM D5185m | | <1 | 0 | <1 |
| Magnesium | ppm | ASTM D5185m | | 2 | 3 | 0 |
| Calcium | ppm | ASTM D5185m | | 97 | 92 | 129 |
| Phosphorus | ppm | ASTM D5185m | | 563 | 536 | 656 |
| Zinc | ppm | ASTM D5185m | | 756 | 706 | 880 |
| Sulfur | ppm | ASTM D5185m | | 1849 | 1585 | 2172 |
| Acid Number (AN) | mg KOH/g | ASTM D8045 | | 0.70 | 0.56 | 0.67 |
| Visc @ 40°C | cSt | ASTM D445 | | 51.4 | 52.6 | 54.7 |



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : JR0209533 **Received** : 21 Mar 2024
Lab Number : 06124803 **Tested** : 22 Mar 2024
Unique Number : 10938954 **Diagnosed** : 24 Mar 2024 - Don Baldrige
Test Package : CONST (Additional Tests: PQ)

JRE - GARNER
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Certificate L2367
 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)