



OIL ANALYSIS REPORT

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



Area
Store 9 - Marietta [RO#143737]
Machine Id
JOHN DEERE 950K 1T0950KPVJF335361
Component
Hydraulic System
Fluid
JOHN DEERE HYDRAU (23 GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

| Test | UOM | Method | Limit/Abn | Current | History1 | History2 |
|----------------|-----|-------------|-----------|--------------------|-------------|-------------|
| Sample Number | | Client Info | | LEC0043595 | LEC0040323 | LEC0039383 |
| Sample Date | | Client Info | | 16 Oct 2023 | 09 Jun 2023 | 09 Mar 2023 |
| Machine Age | hrs | Client Info | | 3246 | 2611 | 2101 |
| Oil Age | hrs | Client Info | | 3246 | 2611 | 2101 |
| Filter Age | hrs | Client Info | | 1145 | 510 | 2101 |
| Oil Changed | | Client Info | | Not Chngd | Not Chngd | Not Chngd |
| Filter Changed | | Client Info | | Not Chngd | Not Chngd | Changed |
| Sample Status | | | | NORMAL | NORMAL | NORMAL |

WEAR

All component wear rates are normal for time on oil.

| | | | | | | |
|--------------|--------|-------------|------|--------------|------|------|
| PQ | | ASTM D8184 | >50 | 21 | 15 | 12 |
| Iron | ppm | ASTM D5185m | >23 | 25 | 21 | 16 |
| Chromium | ppm | ASTM D5185m | >9 | 8 | 7 | 5 |
| Nickel | ppm | ASTM D5185m | >5 | 0 | 0 | 0 |
| Titanium | ppm | ASTM D5185m | | 0 | <1 | 0 |
| Silver | ppm | ASTM D5185m | | 0 | 0 | 0 |
| Aluminum | ppm | ASTM D5185m | >9 | 2 | <1 | 1 |
| Lead | ppm | ASTM D5185m | >28 | <1 | <1 | <1 |
| Copper | ppm | ASTM D5185m | >51 | 5 | 6 | 5 |
| Tin | ppm | ASTM D5185m | >5 | 0 | 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

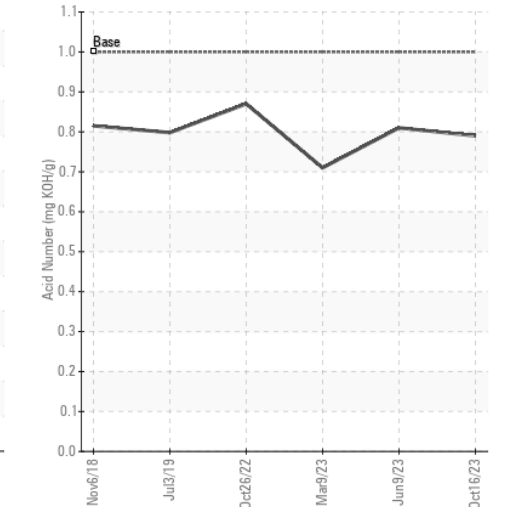
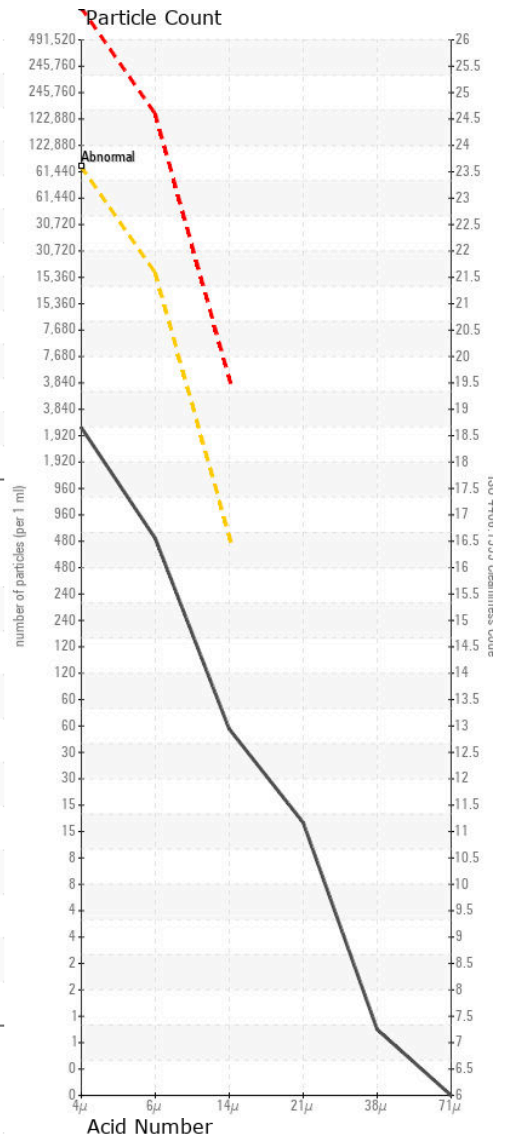
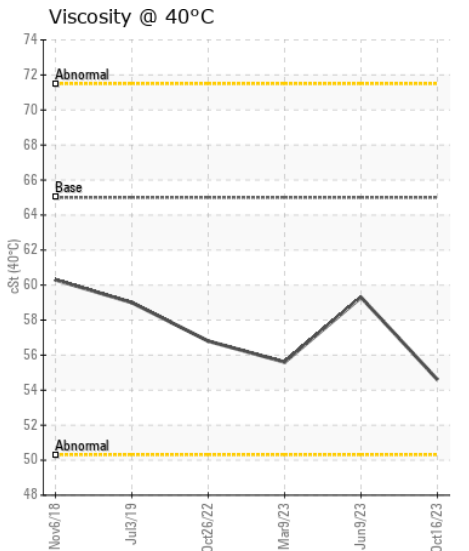
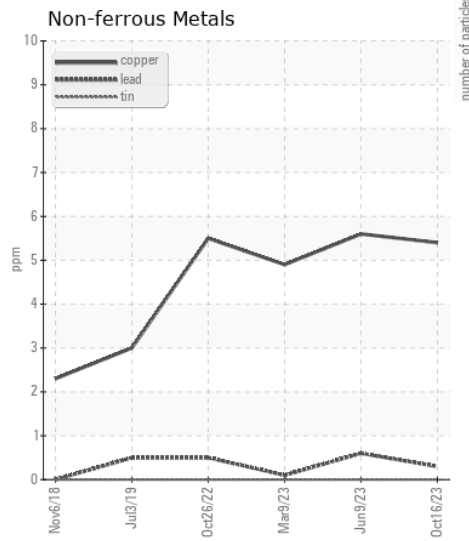
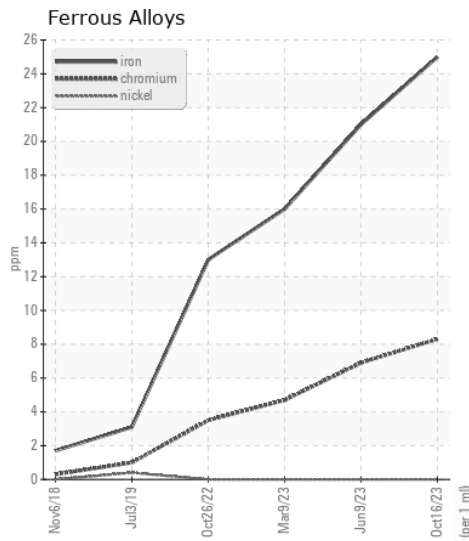
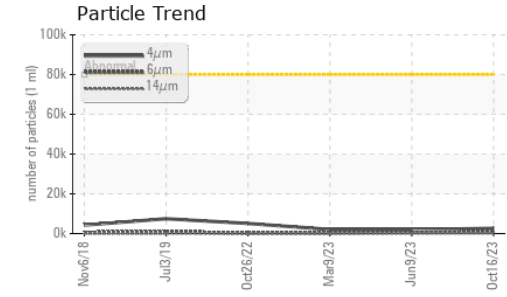
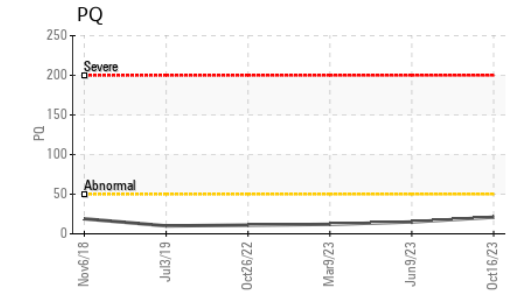
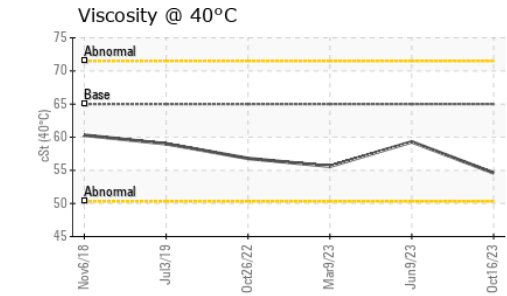
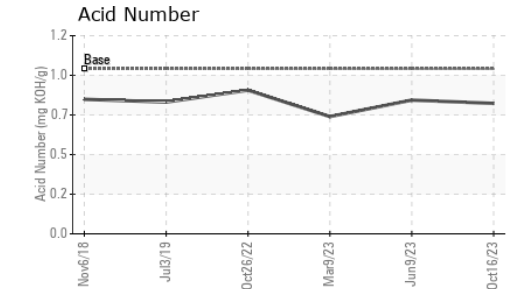
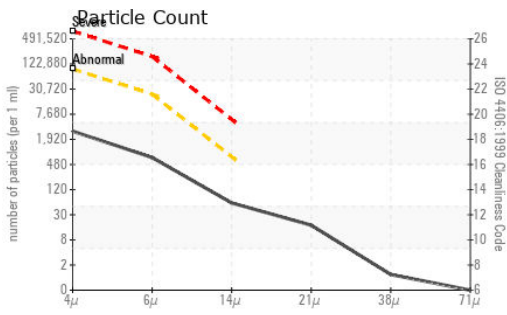
The amount and size of particulates present in the system are acceptable. There is no indication of any contamination in the oil.

| | | | | | | |
|------------------|--------|--------------|-----------|-----------------|----------|----------|
| Silicon | ppm | ASTM D5185m | >31 | 4 | 4 | 3 |
| Potassium | ppm | ASTM D5185m | >20 | 2 | 2 | <1 |
| Water | | WC Method | >0.075 | NEG | NEG | NEG |
| Particles >4µm | | ASTM D7647 | >80000 | 2634 | 1957 | 2068 |
| Particles >6µm | | ASTM D7647 | >20000 | 618 | 544 | 377 |
| Particles >14µm | | ASTM D7647 | >640 | 51 | 59 | 31 |
| Particles >21µm | | ASTM D7647 | >160 | 15 | 14 | 9 |
| Particles >38µm | | ASTM D7647 | >40 | 1 | 1 | 1 |
| Particles >71µm | | ASTM D7647 | >10 | 0 | 0 | 0 |
| Oil Cleanliness | | ISO 4406 (c) | >23/21/16 | 19/16/13 | 18/16/13 | 18/16/12 |
| 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 | >0.075 | 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 | >21 | 1 | 0 | 1 |
| Boron | ppm | ASTM D5185m | | 0 | 0 | 0 |
| Barium | ppm | ASTM D5185m | | 0 | 0 | 0 |
| Molybdenum | ppm | ASTM D5185m | | <1 | 0 | <1 |
| Manganese | ppm | ASTM D5185m | | <1 | <1 | <1 |
| Magnesium | ppm | ASTM D5185m | | 4 | 2 | 6 |
| Calcium | ppm | ASTM D5185m | 87 | 123 | 98 | 94 |
| Phosphorus | ppm | ASTM D5185m | 727 | 604 | 607 | 564 |
| Zinc | ppm | ASTM D5185m | 900 | 837 | 829 | 812 |
| Sulfur | ppm | ASTM D5185m | 1500 | 1674 | 1798 | 1548 |
| Acid Number (AN) | mg KOH/g | ASTM D8045 | 1.0 | 0.79 | 0.81 | 0.71 |
| Visc @ 40°C | cSt | ASTM D445 | 65 | 54.6 | 59.3 | 55.6 |



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : LEC0043595 **Received** : 20 Oct 2023
Lab Number : 05984661 **Tested** : 23 Oct 2023
Unique Number : 10701956 **Diagnosed** : 23 Oct 2023 - Don Baldrige
Test Package : CONST (Additional Tests: PQ)

LESLIE EQUIPMENT COMPANY
 105 TENNIS CENTER DR.
 MARIETTA, OH
 US 45750-9765
 Contact: LEANNE KENDALL
 KendalLeanne@lec1.com
 T:

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)

F: (740)373-5570