



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

Area

[W50610]

Machine Id

JOHN DEERE 310L 1T0310LXKJF340703

Component

Transmission (Manual)

Fluid

JOHN DEERE HY-GARD HYD/TRANS (--- GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

| Test | UOM | Method | Limit/Abn | Current | History1 | History2 |
|----------------|-----|-------------|-----------|--------------------|-------------|-------------|
| Sample Number | | Client Info | | JR0179730 | JR0106364 | JR0107071 |
| Sample Date | | Client Info | | 09 Apr 2024 | 14 Jun 2022 | 27 Oct 2021 |
| Machine Age | hrs | Client Info | | 2972 | 1953 | 1567 |
| Oil Age | hrs | Client Info | | 0 | 0 | 0 |
| Filter Age | hrs | Client Info | | 0 | 0 | 0 |
| Oil Changed | | Client Info | | Changed | Changed | Changed |
| Filter Changed | | Client Info | | Changed | Changed | Changed |
| Sample Status | | | | NORMAL | NORMAL | NORMAL |

WEAR

All component wear rates are normal.

| | | | | | | |
|--------------|--------|-------------|------|--------------|------|------|
| PQ | | ASTM D8184 | >95 | 20 | 18 | 25 |
| Iron | ppm | ASTM D5185m | >200 | 18 | 11 | 28 |
| Chromium | ppm | ASTM D5185m | >5 | <1 | <1 | <1 |
| Nickel | ppm | ASTM D5185m | >5 | <1 | 0 | 0 |
| Titanium | ppm | ASTM D5185m | | <1 | 0 | <1 |
| Silver | ppm | ASTM D5185m | >7 | 0 | <1 | <1 |
| Aluminum | ppm | ASTM D5185m | >25 | 4 | 3 | 7 |
| Lead | ppm | ASTM D5185m | >45 | 1 | <1 | <1 |
| Copper | ppm | ASTM D5185m | >225 | 27 | 11 | 31 |
| Tin | ppm | ASTM D5185m | >10 | 2 | <1 | <1 |
| Vanadium | ppm | ASTM D5185m | | <1 | 0 | 0 |
| White Metal | scalar | *Visual | NONE | NONE | NONE | NONE |
| Yellow Metal | scalar | *Visual | NONE | NONE | NONE | NONE |

CONTAMINATION

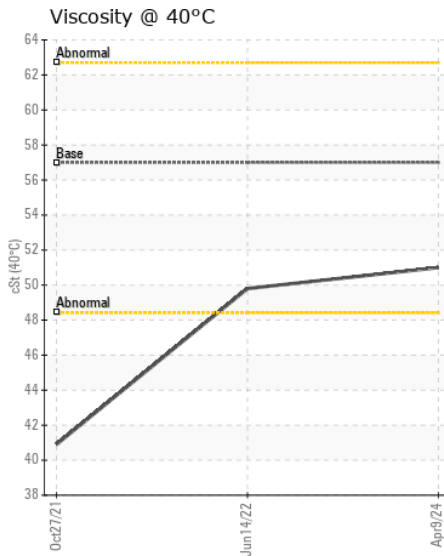
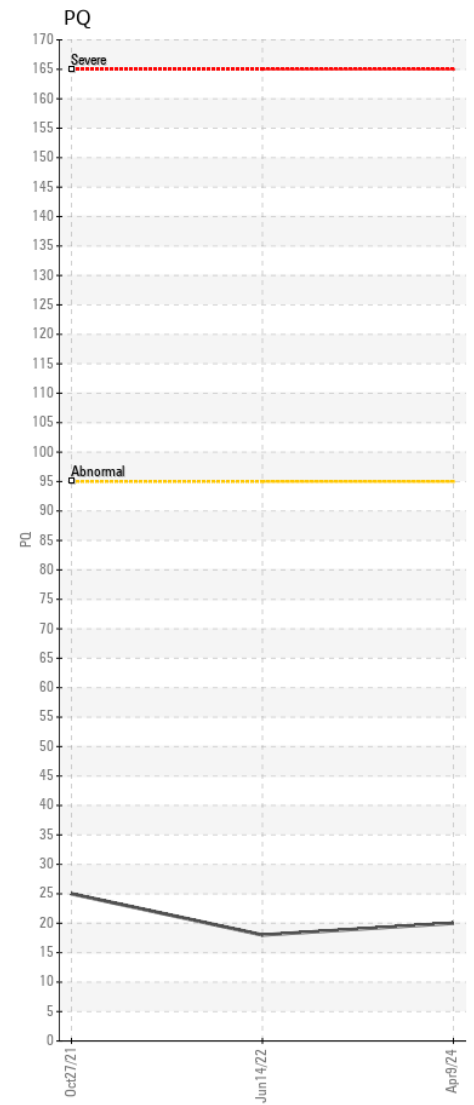
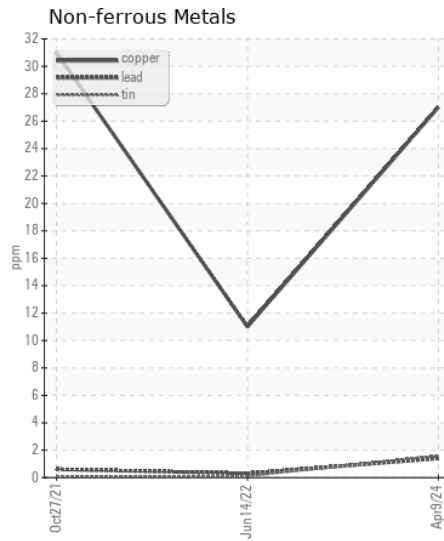
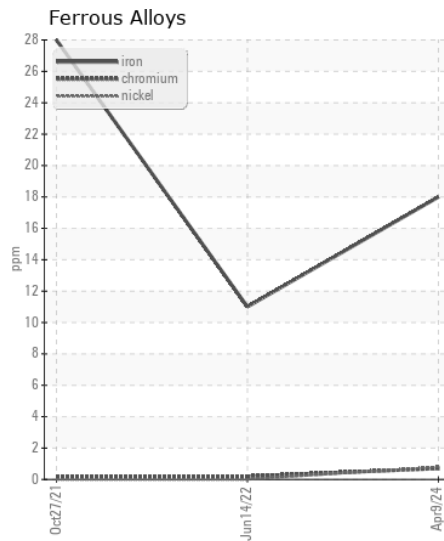
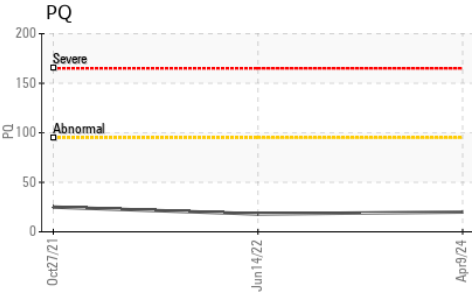
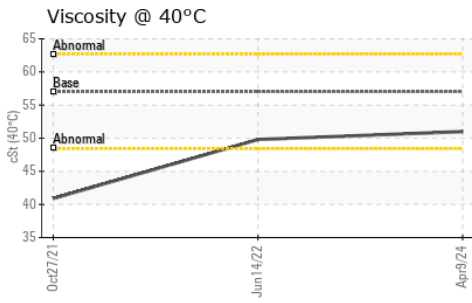
There is no indication of any contamination in the fluid.

| | | | | | | |
|------------------|--------|-------------|-------|--------------|-------|-------|
| Silicon | ppm | ASTM D5185m | >125 | 4 | 2 | 5 |
| Potassium | ppm | ASTM D5185m | >20 | 2 | 0 | 2 |
| Water | | WC Method | >0.1 | NEG | NEG | NEG |
| 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 condition of the fluid is acceptable for the time in service.

| | | | | | | |
|-------------|-----|-------------|------|--------------|------|------|
| Sodium | ppm | ASTM D5185m | | 0 | 2 | 0 |
| Boron | ppm | ASTM D5185m | 6 | 2 | 0 | 24 |
| Barium | ppm | ASTM D5185m | 0 | <1 | 0 | <1 |
| Molybdenum | ppm | ASTM D5185m | 0 | 2 | <1 | <1 |
| Manganese | ppm | ASTM D5185m | | 1 | <1 | 2 |
| Magnesium | ppm | ASTM D5185m | 145 | 92 | 86 | 83 |
| Calcium | ppm | ASTM D5185m | 3570 | 3546 | 3365 | 3760 |
| Phosphorus | ppm | ASTM D5185m | 1290 | 1141 | 946 | 1099 |
| Zinc | ppm | ASTM D5185m | 1640 | 1225 | 1150 | 1322 |
| Sulfur | ppm | ASTM D5185m | | 3995 | 3335 | 3369 |
| Visc @ 40°C | cSt | ASTM D445 | 57.0 | 51.0 | 49.8 | 40.9 |



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : JR0179730 **Received** : 11 Apr 2024
Lab Number : 06146090 **Tested** : 15 Apr 2024
Unique Number : 10976168 **Diagnosed** : 15 Apr 2024 - Sean Felton
Test Package : CONST (Additional Tests: PQ)

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)

JRE - ASHLAND
 11047 LEADBETTER RD
 ASHLAND, VA
 US 23005
 Contact: DAVID ZIEG
 dzieg@jamesriverequipment.com
 T: (804)798-6001
 F: (804)798-0292