



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

Area

[COUNTY OF WARREN]

Machine Id

JOHN DEERE 310SL 1T0310SLLHF315137

Component

Transmission (Manual)

Fluid

JOHN DEERE HY-GARD HYD/TRANS (4 GAL)**RECOMMENDATION**

Resample at the next service interval to monitor.

| Test | UOM | Method | Limit/Abn | Current | History1 | History2 |
|----------------|-----|-------------|-----------|--------------------|-------------|-------------|
| Sample Number | | Client Info | | JR0195310 | JR0170227 | JR0120348 |
| Sample Date | | Client Info | | 23 Feb 2024 | 30 May 2023 | 22 Jul 2022 |
| Machine Age | hrs | Client Info | | 4006 | 3520 | 2998 |
| Oil Age | hrs | Client Info | | 0 | 0 | 0 |
| Filter Age | hrs | Client Info | | 0 | 0 | 0 |
| Oil Changed | | Client Info | | Changed | Not Changed | Changed |
| Filter Changed | | Client Info | | Changed | Not Changed | Changed |
| Sample Status | | | | NORMAL | NORMAL | NORMAL |

WEAR

All component wear rates are normal.

| | | | | | | |
|--------------|--------|-------------|------|--------------|------|------|
| PQ | | ASTM D8184 | >95 | 20 | 16 | 17 |
| Iron | ppm | ASTM D5185m | >200 | 36 | 22 | 21 |
| Chromium | ppm | ASTM D5185m | >5 | <1 | 0 | <1 |
| Nickel | ppm | ASTM D5185m | >5 | 0 | 0 | 0 |
| Titanium | ppm | ASTM D5185m | | <1 | 0 | 0 |
| Silver | ppm | ASTM D5185m | >7 | 0 | 0 | 0 |
| Aluminum | ppm | ASTM D5185m | >25 | 5 | 2 | 3 |
| Lead | ppm | ASTM D5185m | >45 | 0 | <1 | 0 |
| Copper | ppm | ASTM D5185m | >225 | 17 | 17 | 4 |
| Tin | ppm | ASTM D5185m | >10 | 0 | 0 | <1 |
| Vanadium | ppm | ASTM D5185m | | 0 | 0 | 0 |
| White Metal | scalar | *Visual | NONE | NONE | NONE | NONE |
| Yellow Metal | scalar | *Visual | NONE | NONE | NONE | NONE |

CONTAMINATION

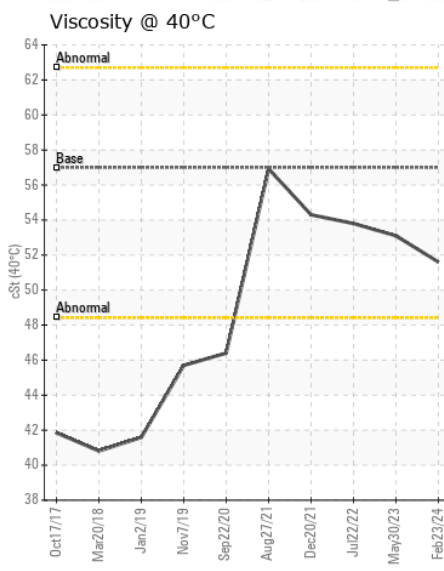
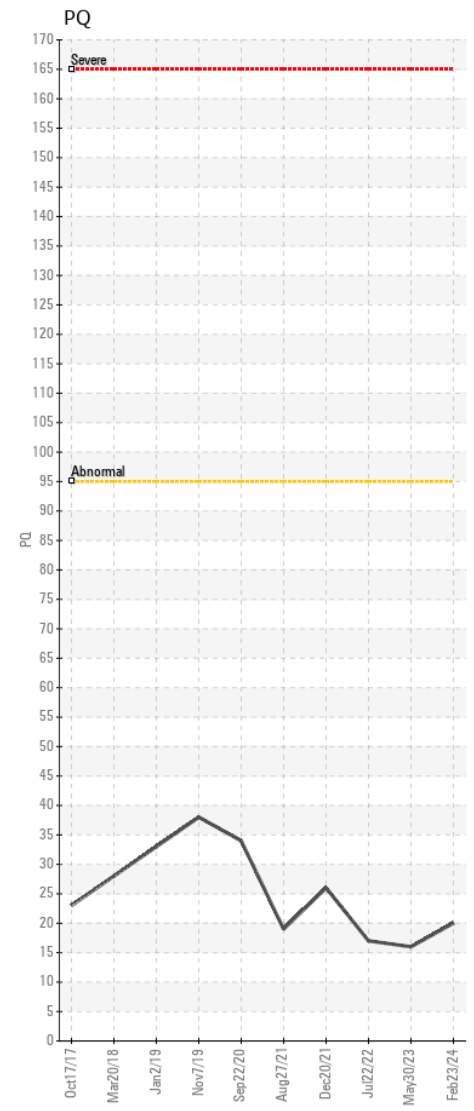
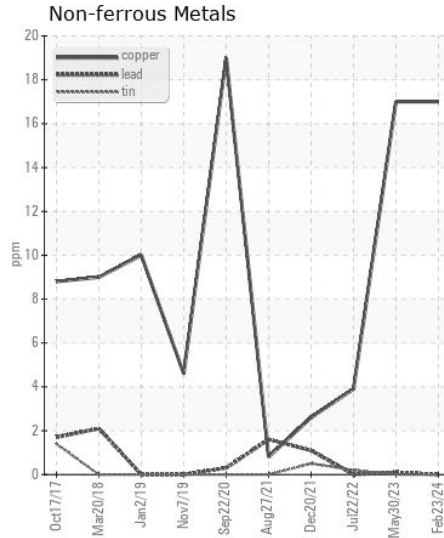
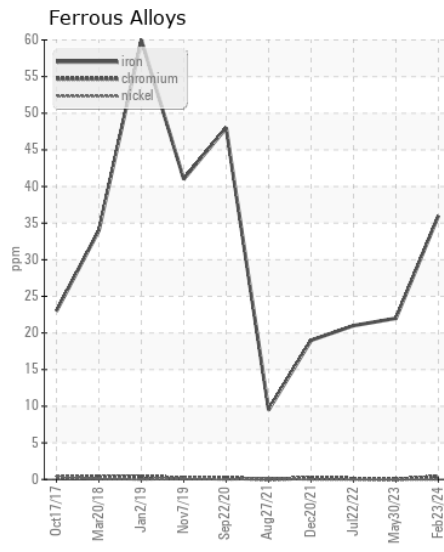
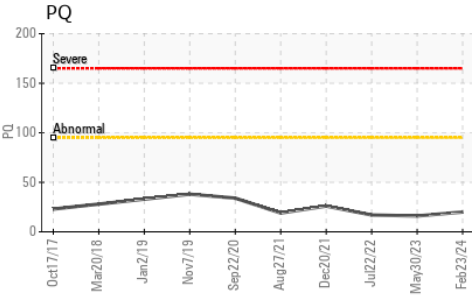
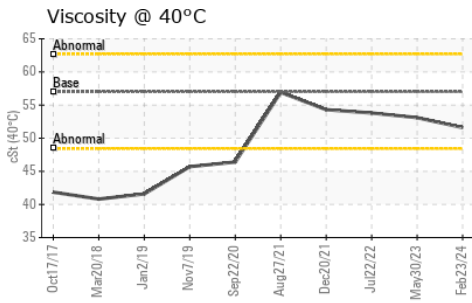
There is no indication of any contamination in the fluid.

| | | | | | | |
|------------------|--------|-------------|-------|--------------|-------|-------|
| Silicon | ppm | ASTM D5185m | >125 | 4 | 3 | 2 |
| Potassium | ppm | ASTM D5185m | >20 | 3 | 3 | 0 |
| 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 | | 1 | 0 | 1 |
| Boron | ppm | ASTM D5185m | 6 | 11 | 10 | 4 |
| Barium | ppm | ASTM D5185m | 0 | 0 | 0 | 0 |
| Molybdenum | ppm | ASTM D5185m | 0 | 9 | 8 | 4 |
| Manganese | ppm | ASTM D5185m | | <1 | <1 | <1 |
| Magnesium | ppm | ASTM D5185m | 145 | 121 | 113 | 103 |
| Calcium | ppm | ASTM D5185m | 3570 | 3213 | 3622 | 3459 |
| Phosphorus | ppm | ASTM D5185m | 1290 | 1045 | 1001 | 975 |
| Zinc | ppm | ASTM D5185m | 1640 | 1174 | 1229 | 1140 |
| Sulfur | ppm | ASTM D5185m | | 3572 | 3668 | 4020 |
| Visc @ 40°C | cSt | ASTM D445 | 57.0 | 51.6 | 53.1 | 53.8 |



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : JR0195310 **Received** : 01 Mar 2024
Lab Number : 06106323 **Tested** : 04 Mar 2024
Unique Number : 10909820 **Diagnosed** : 04 Mar 2024 - Wes Davis
Test Package : CONST (Additional Tests: PQ)

JRE - STEPHENSON
 245 YARDMASTER COURT
 STEPHENSON, VA
 US 22656-1761
 Contact: PHIL DAUGHERTY
 pdaugherty@jamesriverequipment.com

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)

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