



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



Machine Id
JOHN DEERE 310E 1DW310EXCMF712103
Component
Transmission (Auto)
Fluid
JOHN DEERE HD SynTran (--- GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

| Test | UOM | Method | Limit/Abn | Current | History1 | History2 |
|----------------|-----|-------------|-----------|--------------------|-------------|----------|
| Sample Number | | Client Info | | JR0212989 | JR0190558 | --- |
| Sample Date | | Client Info | | 11 Apr 2024 | 12 Nov 2023 | --- |
| Machine Age | hrs | Client Info | | 1533 | 1533 | --- |
| Oil Age | hrs | Client Info | | 1533 | 0 | --- |
| Filter Age | hrs | Client Info | | 1533 | 0 | --- |
| Oil Changed | | Client Info | | Changed | Not Changd | --- |
| Filter Changed | | Client Info | | Changed | Not Changd | --- |
| Sample Status | | | | NORMAL | NORMAL | --- |

WEAR

All component wear rates are normal.

| | | | | | | |
|--------------|--------|-------------|------|--------------|------|-----|
| PQ | | ASTM D8184 | >50 | 32 | 16 | --- |
| Iron | ppm | ASTM D5185m | >160 | 53 | 44 | --- |
| Chromium | ppm | ASTM D5185m | >5 | 0 | 0 | --- |
| Nickel | ppm | ASTM D5185m | >5 | 0 | 0 | --- |
| Titanium | ppm | ASTM D5185m | | <1 | 0 | --- |
| Silver | ppm | ASTM D5185m | >5 | 0 | 0 | --- |
| Aluminum | ppm | ASTM D5185m | >50 | <1 | 0 | --- |
| Lead | ppm | ASTM D5185m | >50 | 10 | 8 | --- |
| Copper | ppm | ASTM D5185m | >225 | 3 | 2 | --- |
| Tin | ppm | ASTM D5185m | >10 | <1 | 0 | --- |
| Vanadium | ppm | ASTM D5185m | | 0 | 0 | --- |
| White Metal | scalar | *Visual | NONE | NONE | NONE | --- |
| Yellow Metal | scalar | *Visual | NONE | NONE | NONE | --- |

CONTAMINATION

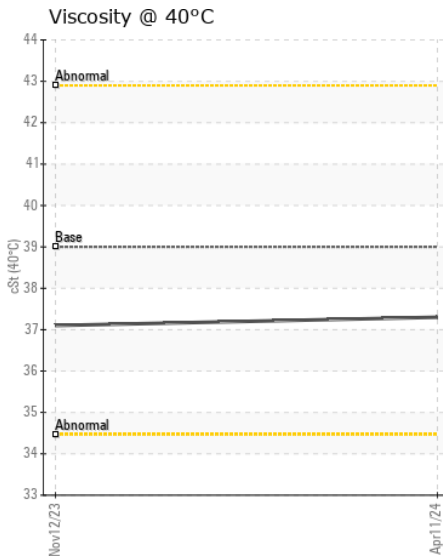
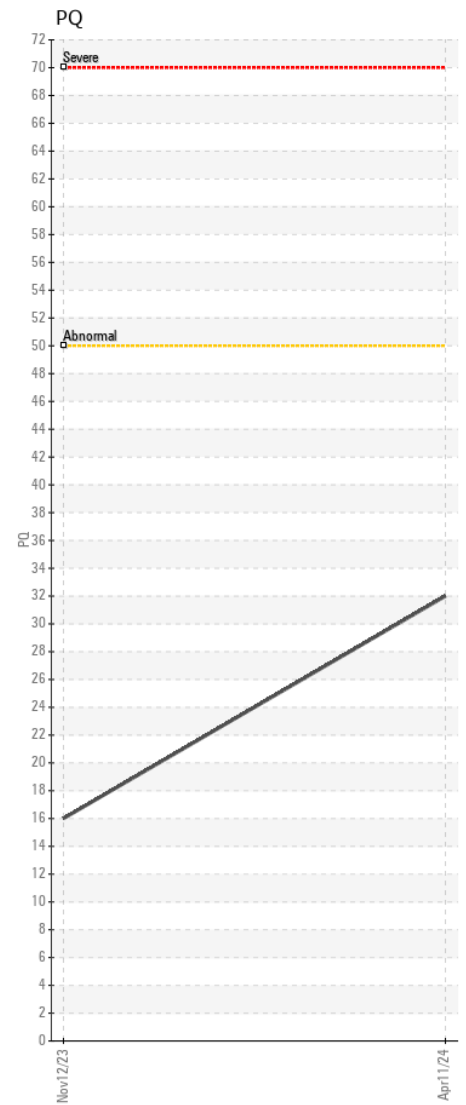
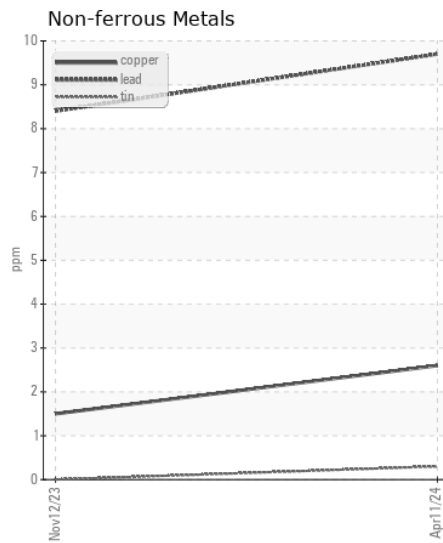
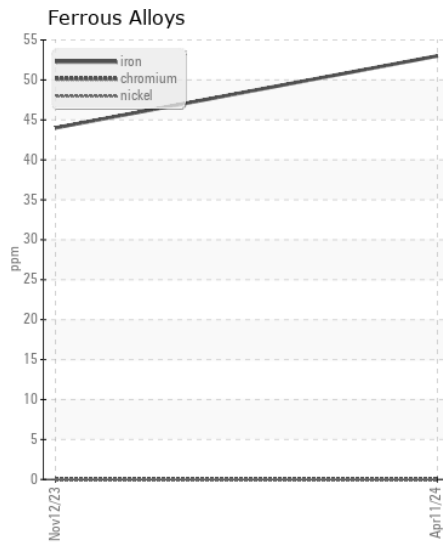
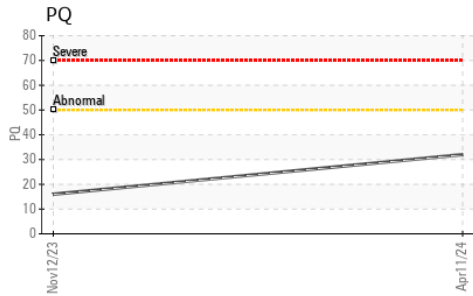
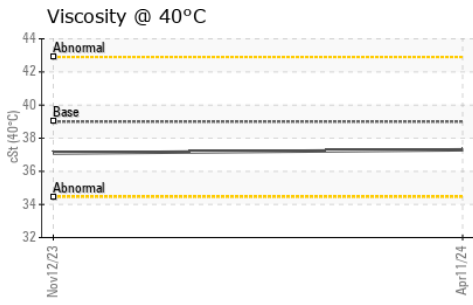
There is no indication of any contamination in the fluid.

| | | | | | | |
|------------------|--------|-------------|-------|--------------|-------|-----|
| Silicon | ppm | ASTM D5185m | >20 | 5 | 4 | --- |
| Potassium | ppm | ASTM D5185m | >20 | 6 | 4 | --- |
| Water | | WC Method | >0.1 | NEG | NEG | --- |
| Silt | scalar | *Visual | NONE | NONE | NONE | --- |
| Debris | scalar | *Visual | NONE | NONE | NONE | --- |
| Sand/Dirt | scalar | *Visual | NONE | NONE | NONE | --- |
| Appearance | scalar | *Visual | NORML | NORML | NORML | --- |
| Odor | scalar | *Visual | NORML | NORML | NORML | --- |
| Emulsified Water | scalar | *Visual | >0.1 | NEG | NEG | --- |

FLUID CONDITION

The condition of the fluid is acceptable for the time in service.

| | | | | | | |
|-------------|-----|-------------|-----|--------------|------|-----|
| Sodium | ppm | ASTM D5185m | | 5 | 3 | --- |
| Boron | ppm | ASTM D5185m | 168 | 110 | 104 | --- |
| Barium | ppm | ASTM D5185m | | <1 | <1 | --- |
| Molybdenum | ppm | ASTM D5185m | | <1 | <1 | --- |
| Manganese | ppm | ASTM D5185m | | 1 | <1 | --- |
| Magnesium | ppm | ASTM D5185m | | 7 | 4 | --- |
| Calcium | ppm | ASTM D5185m | 33 | 169 | 130 | --- |
| Phosphorus | ppm | ASTM D5185m | 330 | 286 | 273 | --- |
| Zinc | ppm | ASTM D5185m | 0 | 42 | 50 | --- |
| Sulfur | ppm | ASTM D5185m | 980 | 628 | 507 | --- |
| Visc @ 40°C | cSt | ASTM D445 | 39 | 37.3 | 37.1 | --- |



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : JR0212989 **Received** : 17 Apr 2024
Lab Number : 06152207 **Tested** : 18 Apr 2024
Unique Number : 10982285 **Diagnosed** : 22 Apr 2024 - Don Baldrige
Test Package : CONST (Additional Tests: PQ)

JRE - GARNER
 4161 AUBURN CHURCH RD
 GARNER, NC
 US 27529

Contact: RALEIGH SHOP
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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)

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