



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

Machine Id
JOHN DEERE 460P 1DW460PALPFB06469

Component
Center Differential

Fluid
JOHN DEERE HY-GARD HYDRAULIC/RANSMISSION (--- GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

| Test | UOM | Method | Limit/Abn | Current | History1 | History2 |
|----------------|-----|-------------|-----------|--------------------|-------------|-------------|
| Sample Number | | Client Info | | JR0202798 | JR0181453 | JR0167497 |
| Sample Date | | Client Info | | 05 Feb 2024 | 15 Oct 2023 | 06 Jul 2023 |
| Machine Age | hrs | Client Info | | 1512 | 492 | 492 |
| Oil Age | hrs | Client Info | | 0 | 492 | 492 |
| Filter Age | hrs | Client Info | | 0 | 0 | 0 |
| Oil Changed | | Client Info | | Not Changed | Not Changed | Not Changed |
| Filter Changed | | Client Info | | Not Changed | Changed | Not Changed |
| Sample Status | | | | NORMAL | NORMAL | NORMAL |

WEAR

All component wear rates are normal.

| | | | | | | |
|--------------|--------|-------------|------|--------------|------|------|
| PQ | | ASTM D8184 | | 7 | 26 | 16 |
| Iron | ppm | ASTM D5185m | >500 | 4 | 33 | 18 |
| Chromium | ppm | ASTM D5185m | >10 | 0 | 0 | <1 |
| Nickel | ppm | ASTM D5185m | >10 | 0 | 0 | 0 |
| Titanium | ppm | ASTM D5185m | | <1 | <1 | 0 |
| Silver | ppm | ASTM D5185m | | 0 | 0 | 0 |
| Aluminum | ppm | ASTM D5185m | >25 | 1 | <1 | 2 |
| Lead | ppm | ASTM D5185m | >25 | 2 | 11 | 4 |
| Copper | ppm | ASTM D5185m | >100 | 2 | 13 | 9 |
| Tin | ppm | ASTM D5185m | >10 | <1 | 1 | <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

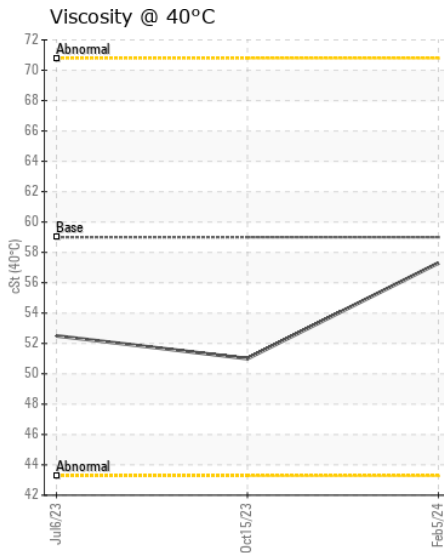
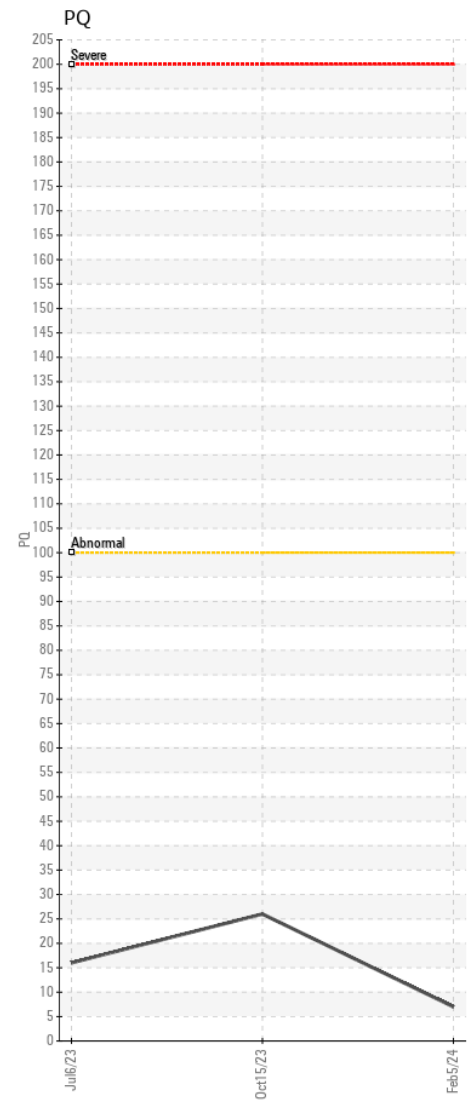
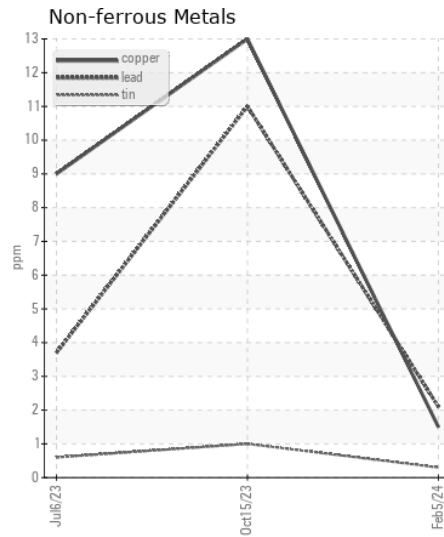
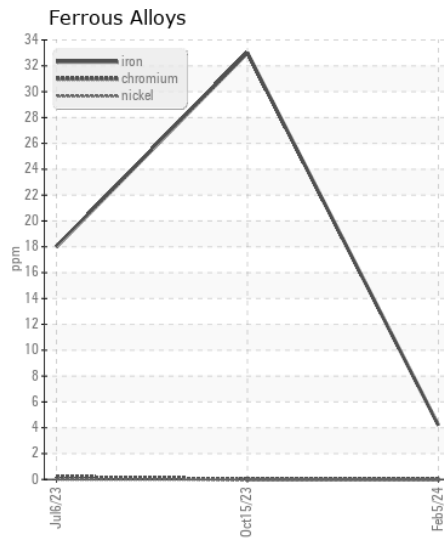
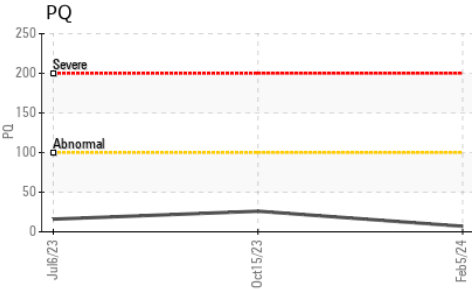
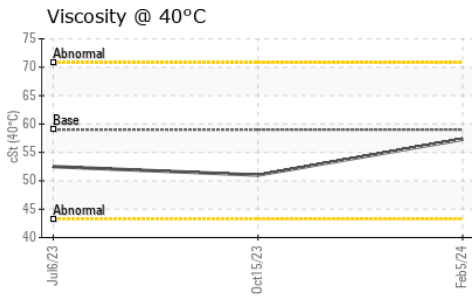
There is no indication of any contamination in the fluid.

| | | | | | | |
|------------------|--------|-------------|-------|--------------|-------|-------|
| Silicon | ppm | ASTM D5185m | >75 | 4 | 5 | 3 |
| Potassium | ppm | ASTM D5185m | >20 | 2 | <1 | 0 |
| Water | | WC Method | >.2 | 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 | >.2 | NEG | NEG | NEG |

FLUID CONDITION

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

| | | | | | | |
|-------------|-----|-------------|----|--------------|------|------|
| Sodium | ppm | ASTM D5185m | | 0 | 4 | 3 |
| Boron | ppm | ASTM D5185m | | <1 | 4 | 0 |
| Barium | ppm | ASTM D5185m | | <1 | 0 | <1 |
| Molybdenum | ppm | ASTM D5185m | | 1 | 2 | 3 |
| Manganese | ppm | ASTM D5185m | | <1 | 2 | 2 |
| Magnesium | ppm | ASTM D5185m | | 104 | 71 | 107 |
| Calcium | ppm | ASTM D5185m | | 3527 | 3491 | 3552 |
| Phosphorus | ppm | ASTM D5185m | | 886 | 1100 | 1079 |
| Zinc | ppm | ASTM D5185m | | 1254 | 1316 | 1345 |
| Sulfur | ppm | ASTM D5185m | | 3559 | 3957 | 4521 |
| Visc @ 40°C | cSt | ASTM D445 | 59 | 57.3 | 51.0 | 52.5 |



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : JR0202798 **Received** : 08 Feb 2024
Lab Number : 06083854 **Tested** : 09 Feb 2024
Unique Number : 10871299 **Diagnosed** : 11 Feb 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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