



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

Area

[ATLAS PLUMBING]

Machine Id

JOHN DEERE 410L 1T0410LXCMF404565

Component

Front Differential

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 | | JR0221352 | JR0181849 | JR0132478 |
| Sample Date | | Client Info | | 26 Jun 2024 | 20 Jul 2023 | 20 Jul 2022 |
| Machine Age | hrs | Client Info | | 1478 | 955 | 449 |
| Oil Age | hrs | Client Info | | 0 | 955 | 0 |
| Filter Age | hrs | Client Info | | 0 | 0 | 0 |
| Oil Changed | | Client Info | | Not Changd | N/A | N/A |
| Filter Changed | | Client Info | | N/A | N/A | N/A |
| Sample Status | | | | NORMAL | NORMAL | NORMAL |

WEAR

All component wear rates are normal.

| | | | | | | |
|--------------|--------|-------------|------|--------------|-------|-------|
| PQ | | ASTM D8184 | | 431 | 535 | 258 |
| Iron | ppm | ASTM D5185m | >500 | 219 | 262 | 118 |
| Chromium | ppm | ASTM D5185m | >10 | 1 | 2 | 1 |
| Nickel | ppm | ASTM D5185m | >10 | <1 | <1 | 0 |
| Titanium | ppm | ASTM D5185m | | <1 | <1 | 0 |
| Silver | ppm | ASTM D5185m | | <1 | 0 | 0 |
| Aluminum | ppm | ASTM D5185m | >25 | 3 | 3 | 2 |
| Lead | ppm | ASTM D5185m | >25 | <1 | <1 | <1 |
| Copper | ppm | ASTM D5185m | >100 | 69 | 68 | 37 |
| Tin | ppm | ASTM D5185m | >10 | 1 | 1 | <1 |
| Vanadium | ppm | ASTM D5185m | | <1 | 0 | 0 |
| White Metal | scalar | *Visual | NONE | NONE | MODER | HEAVY |
| Yellow Metal | scalar | *Visual | NONE | NONE | NONE | NONE |

CONTAMINATION

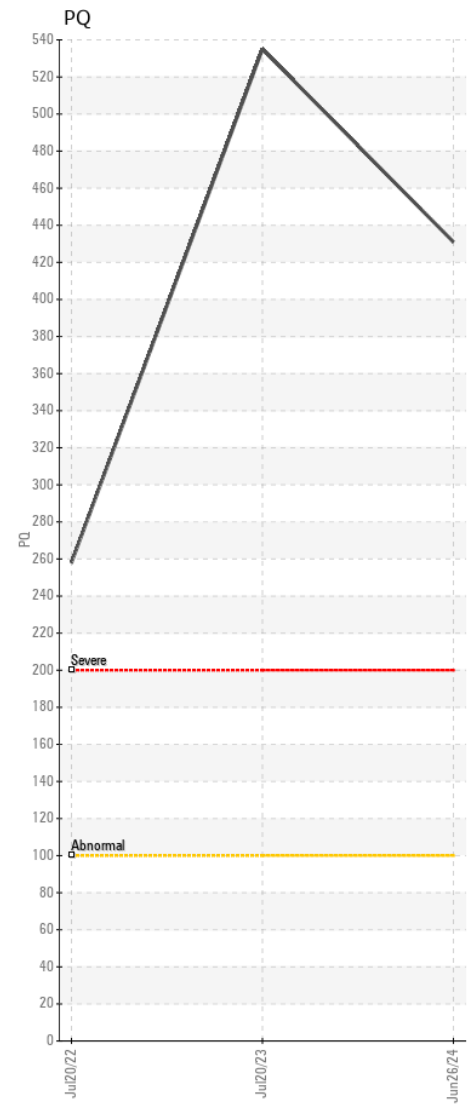
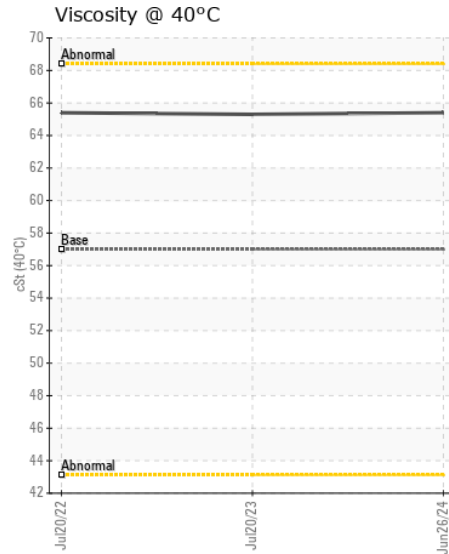
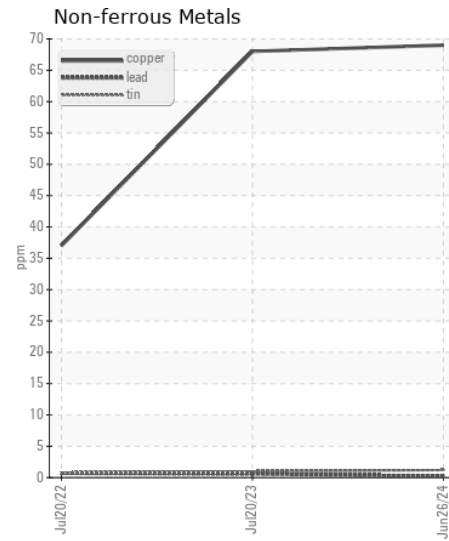
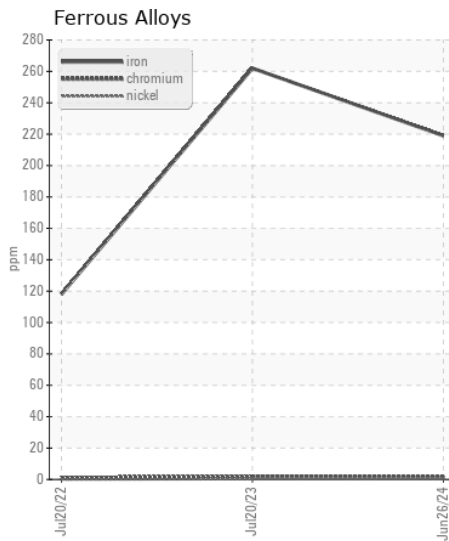
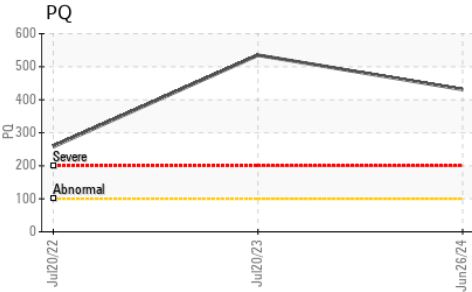
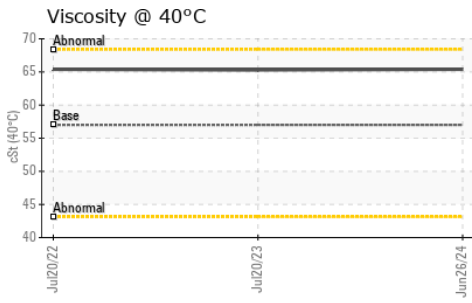
There is no indication of any contamination in the oil.

| | | | | | | |
|------------------|--------|-------------|-------|--------------|-------|-------|
| Silicon | ppm | ASTM D5185m | >75 | 12 | 17 | 12 |
| Potassium | ppm | ASTM D5185m | >20 | 4 | 3 | 0 |
| Water | | WC Method | >.2 | NEG | NEG | NEG |
| Silt | scalar | *Visual | NONE | MODER | 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 oil is acceptable for the time in service.

| | | | | | | |
|-------------|-----|-------------|------|--------------|------|------|
| Sodium | ppm | ASTM D5185m | | 16 | 15 | 17 |
| Boron | ppm | ASTM D5185m | 6 | 109 | 137 | 147 |
| Barium | ppm | ASTM D5185m | 0 | 1 | 3 | 0 |
| Molybdenum | ppm | ASTM D5185m | 0 | <1 | <1 | <1 |
| Manganese | ppm | ASTM D5185m | | 9 | 11 | 9 |
| Magnesium | ppm | ASTM D5185m | 145 | 13 | 12 | 14 |
| Calcium | ppm | ASTM D5185m | 3570 | 3513 | 3656 | 3712 |
| Phosphorus | ppm | ASTM D5185m | 1290 | 1082 | 1202 | 1141 |
| Zinc | ppm | ASTM D5185m | 1640 | 1414 | 1473 | 1484 |
| Sulfur | ppm | ASTM D5185m | | 2939 | 3742 | 4227 |
| Visc @ 40°C | cSt | ASTM D445 | 57.0 | 65.4 | 65.3 | 65.4 |



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : JR0221352 **Received** : 01 Jul 2024
Lab Number : 06225374 **Tested** : 02 Jul 2024
Unique Number : 11103571 **Diagnosed** : 03 Jul 2024 - Don Baldrige
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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