



OIL ANALYSIS REPORT

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

Area

[127367]

Machine Id

JOHN DEERE 437E 1T0437EDTPL439975

Component

Swing Drive

Fluid

JOHN DEERE GL-5 80W90 (--- QTS)

RECOMMENDATION

Resample at the next service interval to monitor.

| Test | UOM | Method | Limit/Abn | Current | History1 | History2 |
|----------------|-----|-------------|-----------|--------------------|----------|----------|
| Sample Number | | Client Info | | WE0006966 | --- | --- |
| Sample Date | | Client Info | | 21 Jun 2024 | --- | --- |
| Machine Age | hrs | Client Info | | 735 | --- | --- |
| Oil Age | hrs | Client Info | | 0 | --- | --- |
| Filter Age | hrs | Client Info | | 0 | --- | --- |
| Oil Changed | | Client Info | | N/A | --- | --- |
| Filter Changed | | Client Info | | N/A | --- | --- |
| Sample Status | | | | NORMAL | --- | --- |

WEAR

All component wear rates are normal.

| | | | | | | |
|--------------|--------|-------------|------|-------------|-----|-----|
| PQ | | ASTM D8184 | | 21 | --- | --- |
| Iron | ppm | ASTM D5185m | >151 | 20 | --- | --- |
| Chromium | ppm | ASTM D5185m | >11 | 0 | --- | --- |
| Nickel | ppm | ASTM D5185m | >10 | 0 | --- | --- |
| Titanium | ppm | ASTM D5185m | | 0 | --- | --- |
| Silver | ppm | ASTM D5185m | | 0 | --- | --- |
| Aluminum | ppm | ASTM D5185m | >21 | 0 | --- | --- |
| Lead | ppm | ASTM D5185m | >51 | 0 | --- | --- |
| Copper | ppm | ASTM D5185m | >51 | 0 | --- | --- |
| Tin | ppm | ASTM D5185m | >10 | 0 | --- | --- |
| Vanadium | ppm | ASTM D5185m | | 0 | --- | --- |
| White Metal | scalar | *Visual | NONE | NONE | --- | --- |
| Yellow Metal | scalar | *Visual | NONE | NONE | --- | --- |

CONTAMINATION

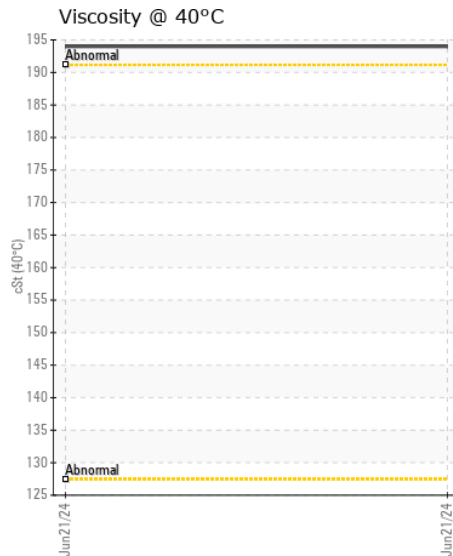
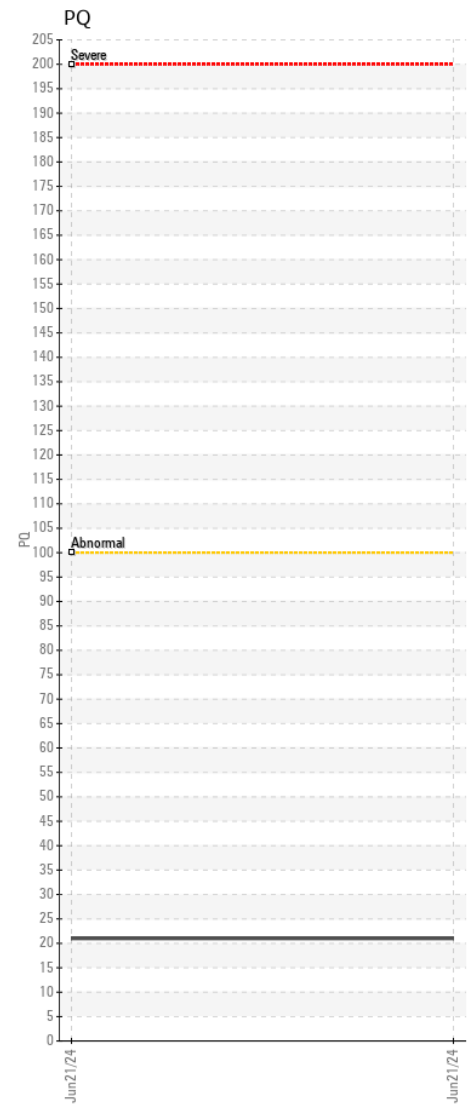
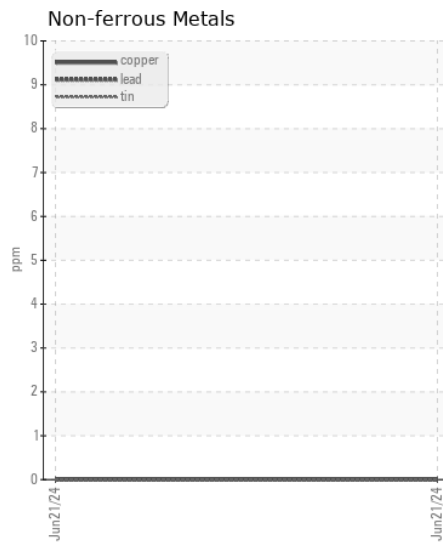
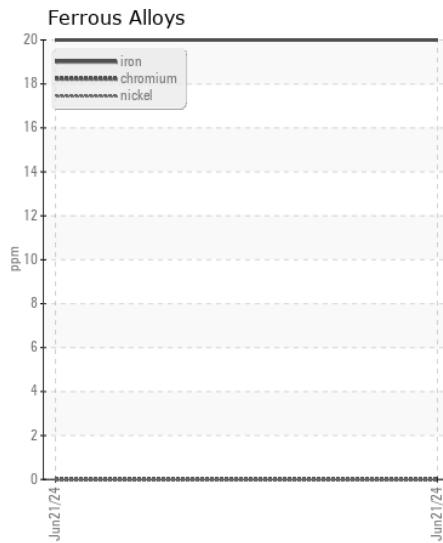
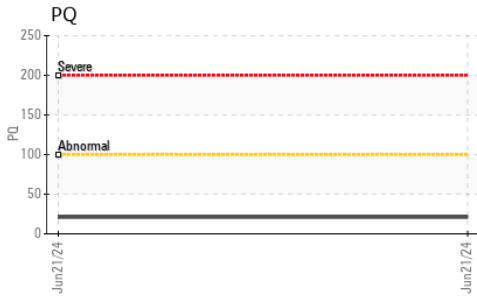
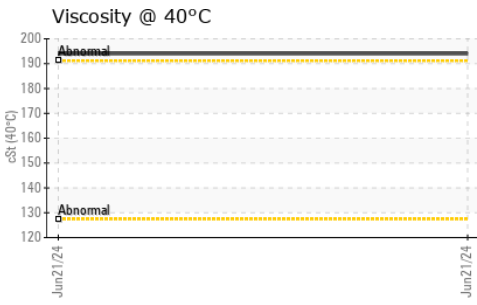
There is no indication of any contamination in the oil.

| | | | | | | |
|------------------|--------|-------------|-------|--------------|-----|-----|
| Silicon | ppm | ASTM D5185m | >31 | 7 | --- | --- |
| Potassium | ppm | ASTM D5185m | >20 | 2 | --- | --- |
| Water | | WC Method | >0.1 | NEG | --- | --- |
| Silt | scalar | *Visual | NONE | NONE | --- | --- |
| Debris | scalar | *Visual | NONE | NONE | --- | --- |
| Sand/Dirt | scalar | *Visual | NONE | NONE | --- | --- |
| Appearance | scalar | *Visual | NORML | NORML | --- | --- |
| Odor | scalar | *Visual | NORML | NORML | --- | --- |
| Emulsified Water | scalar | *Visual | >0.1 | NEG | --- | --- |

FLUID CONDITION

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

| | | | | | | |
|-------------|-----|-------------|-----|--------------|-----|-----|
| Sodium | ppm | ASTM D5185m | >51 | 0 | --- | --- |
| Boron | ppm | ASTM D5185m | | 256 | --- | --- |
| Barium | ppm | ASTM D5185m | | 0 | --- | --- |
| Molybdenum | ppm | ASTM D5185m | | 2 | --- | --- |
| Manganese | ppm | ASTM D5185m | | 0 | --- | --- |
| Magnesium | ppm | ASTM D5185m | | 225 | --- | --- |
| Calcium | ppm | ASTM D5185m | | 21 | --- | --- |
| Phosphorus | ppm | ASTM D5185m | | 1137 | --- | --- |
| Zinc | ppm | ASTM D5185m | | 12 | --- | --- |
| Sulfur | ppm | ASTM D5185m | | 25633 | --- | --- |
| Visc @ 40°C | cSt | ASTM D445 | | 194 | --- | --- |



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WE0006966 **Received** : 26 Jun 2024
Lab Number : 06221474 **Tested** : 27 Jun 2024
Unique Number : 11099671 **Diagnosed** : 28 Jun 2024 - Sean Felton
Test Package : CONST (Additional Tests: PQ)

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P.O. BOX 412
NORTHPORT, AL
US 35476
Contact: CRAIG ANDOE
serve01@warriortractor.com
T: (205)339-0300
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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)