



OIL ANALYSIS REPORT

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

Area
[127288]

Machine Id
JOHN DEERE 460P 1DW460PAPPFB06219

Component
Front Differential

Fluid
JOHN DEERE HY-GARD HYD/TRANS (--- QTS)

RECOMMENDATION

Resample at the next service interval to monitor.

| Test | UOM | Method | Limit/Abn | Current | History1 | History2 |
|----------------|-----|-------------|-----------|--------------------|-------------|-------------|
| Sample Number | | Client Info | | WE0007782 | WE0006351 | WE0005831 |
| Sample Date | | Client Info | | 20 Jun 2024 | 21 Feb 2024 | 10 Nov 2023 |
| Machine Age | hrs | Client Info | | 2121 | 1471 | 1037 |
| Oil Age | hrs | Client Info | | 0 | 0 | 0 |
| Filter Age | hrs | Client Info | | 0 | 0 | 0 |
| Oil Changed | | Client Info | | Changed | N/A | Not Changd |
| Filter Changed | | Client Info | | Changed | N/A | Not Changd |
| Sample Status | | | | NORMAL | NORMAL | NORMAL |

WEAR

All component wear rates are normal.

| | | | | | | |
|--------------|--------|-------------|------|--------------|------|------|
| PQ | | ASTM D8184 | | 25 | 15 | 16 |
| Iron | ppm | ASTM D5185m | >500 | 44 | 26 | 28 |
| Chromium | ppm | ASTM D5185m | >10 | <1 | 0 | 0 |
| 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 | 6 | 2 | <1 |
| Lead | ppm | ASTM D5185m | >25 | 23 | 6 | 15 |
| Copper | ppm | ASTM D5185m | >100 | 21 | 51 | 7 |
| Tin | ppm | ASTM D5185m | >10 | 1 | 4 | <1 |
| Vanadium | ppm | ASTM D5185m | | <1 | 0 | 0 |
| White Metal | scalar | *Visual | NONE | NONE | NONE | NONE |
| Yellow Metal | scalar | *Visual | NONE | NONE | NONE | NONE |

CONTAMINATION

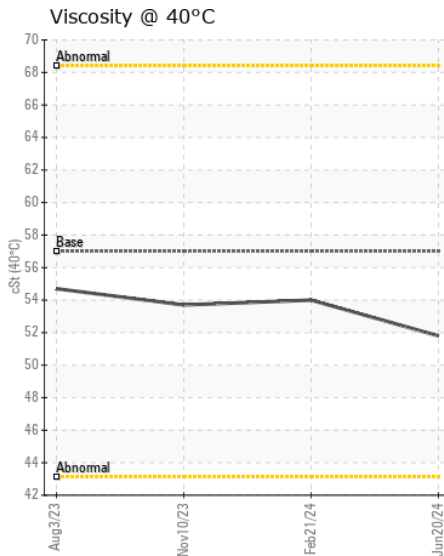
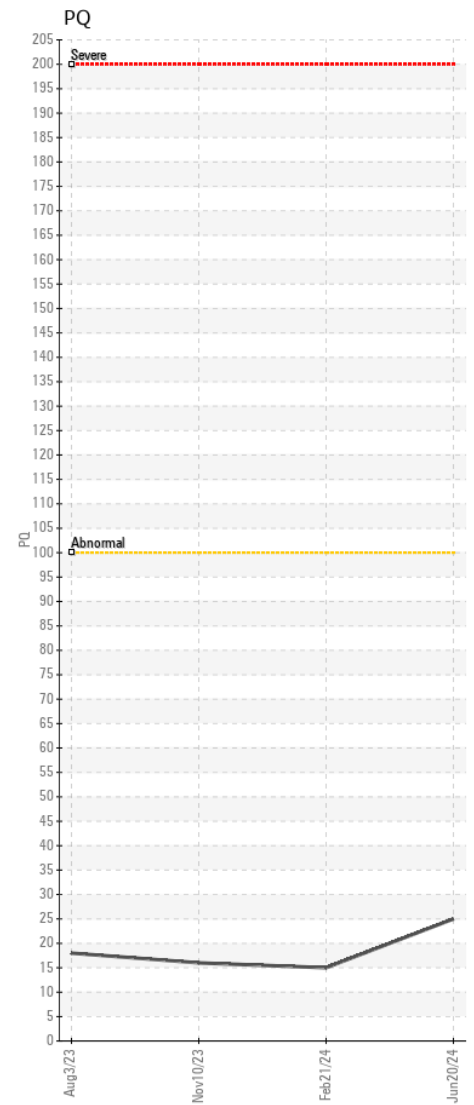
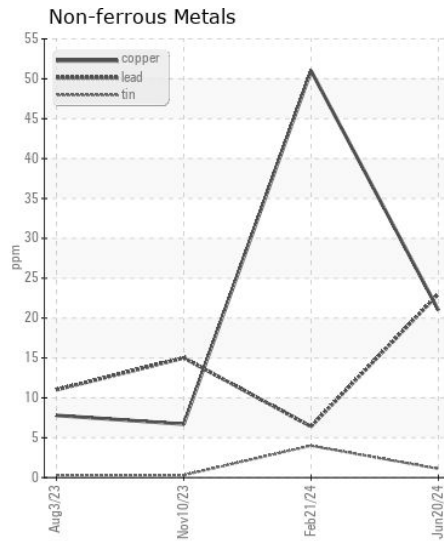
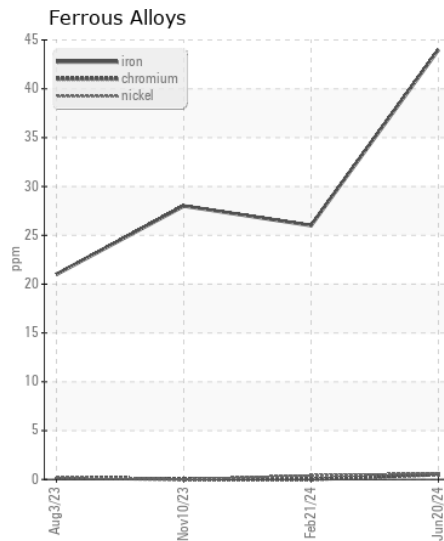
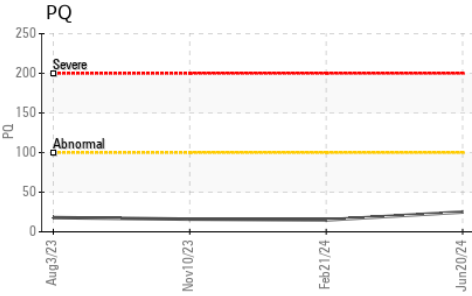
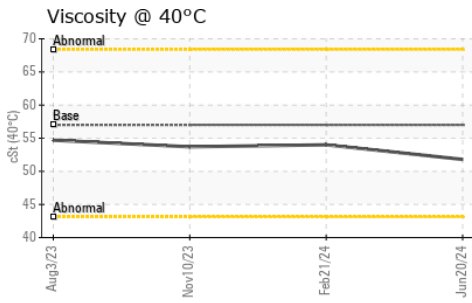
There is no indication of any contamination in the oil.

| | | | | | | |
|------------------|--------|-------------|-------|--------------|-------|-------|
| Silicon | ppm | ASTM D5185m | >75 | 7 | 4 | 4 |
| Potassium | ppm | ASTM D5185m | >20 | 3 | <1 | 0 |
| Water | | WC Method | >.2 | NEG | NEG | NEG |
| Silt | scalar | *Visual | NONE | NONE | NONE | NONE |
| Debris | scalar | *Visual | NONE | LIGHT | LIGHT | 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 | | 4 | 3 | 5 |
| Boron | ppm | ASTM D5185m | 6 | 2 | 2 | <1 |
| Barium | ppm | ASTM D5185m | 0 | 6 | 3 | <1 |
| Molybdenum | ppm | ASTM D5185m | 0 | <1 | 0 | 0 |
| Manganese | ppm | ASTM D5185m | | 2 | 2 | 2 |
| Magnesium | ppm | ASTM D5185m | 145 | 112 | 103 | 100 |
| Calcium | ppm | ASTM D5185m | 3570 | 4097 | 3450 | 3490 |
| Phosphorus | ppm | ASTM D5185m | 1290 | 1218 | 1002 | 1058 |
| Zinc | ppm | ASTM D5185m | 1640 | 1444 | 1252 | 1256 |
| Sulfur | ppm | ASTM D5185m | | 4402 | 3438 | 3667 |
| Visc @ 40°C | cSt | ASTM D445 | 57.0 | 51.8 | 54.0 | 53.7 |



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WE0007782
Lab Number : 06218501
Unique Number : 11096698
Test Package : CONST (Additional Tests: PQ)

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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)