



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

Machine Id
JOHN DEERE 350P 1FF350PAHPF000543

Component
Hydraulic System

Fluid
JOHN DEERE ZINC-FREE HYDRAULIC OIL 46 (55 GAL)

RECOMMENDATION

No corrective action is recommended at this time. The filter change at the time of sampling has been noted. Resample at the next service interval to monitor. (Customer Sample Comment: Top Up Amount: 4 QTS)

| Test | UOM | Method | Limit/Abn | Current | History1 | History2 |
|----------------|-----|-------------|-----------|-------------|-------------|-------------|
| Sample Number | | Client Info | | JR0225742 | JR0211326 | JR0195739 |
| Sample Date | | Client Info | | 26 Jun 2024 | 27 Mar 2024 | 06 Dec 2023 |
| Machine Age | hrs | Client Info | | 1992 | 1467 | 963 |
| Oil Age | hrs | Client Info | | 1992 | 1467 | 963 |
| Filter Age | hrs | Client Info | | 1992 | 503 | 0 |
| Oil Changed | | Client Info | | Oil Added | Not Changd | N/A |
| Filter Changed | | Client Info | | Changed | Not Changd | N/A |
| Sample Status | | | | ATTENTION | NORMAL | NORMAL |

WEAR

All component wear rates are normal.

| | | | | | | |
|--------------|--------|-------------|------|------|------|------|
| PQ | | ASTM D8184 | >50 | 22 | 13 | 11 |
| Iron | ppm | ASTM D5185m | >32 | 2 | 2 | <1 |
| Chromium | ppm | ASTM D5185m | >9 | <1 | 0 | 0 |
| Nickel | ppm | ASTM D5185m | >5 | <1 | 0 | 0 |
| Titanium | ppm | ASTM D5185m | | <1 | 0 | 0 |
| Silver | ppm | ASTM D5185m | | <1 | 0 | 0 |
| Aluminum | ppm | ASTM D5185m | >9 | 2 | 0 | 0 |
| Lead | ppm | ASTM D5185m | >28 | <1 | 0 | 0 |
| Copper | ppm | ASTM D5185m | >50 | 1 | 1 | 2 |
| Tin | ppm | ASTM D5185m | >5 | <1 | 0 | 0 |
| Vanadium | ppm | ASTM D5185m | | <1 | 0 | 0 |
| White Metal | scalar | *Visual | NONE | NONE | NONE | NONE |
| Yellow Metal | scalar | *Visual | NONE | NONE | NONE | NONE |

CONTAMINATION

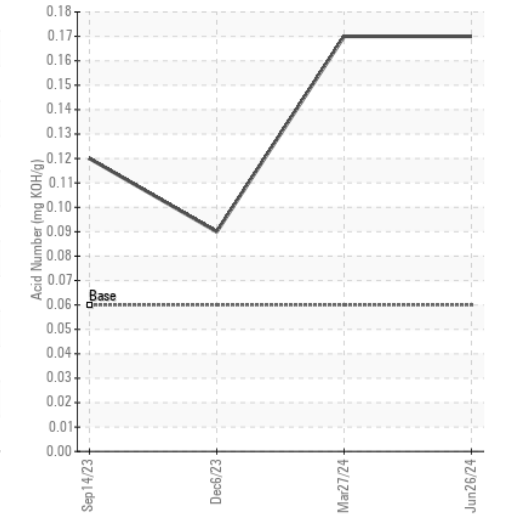
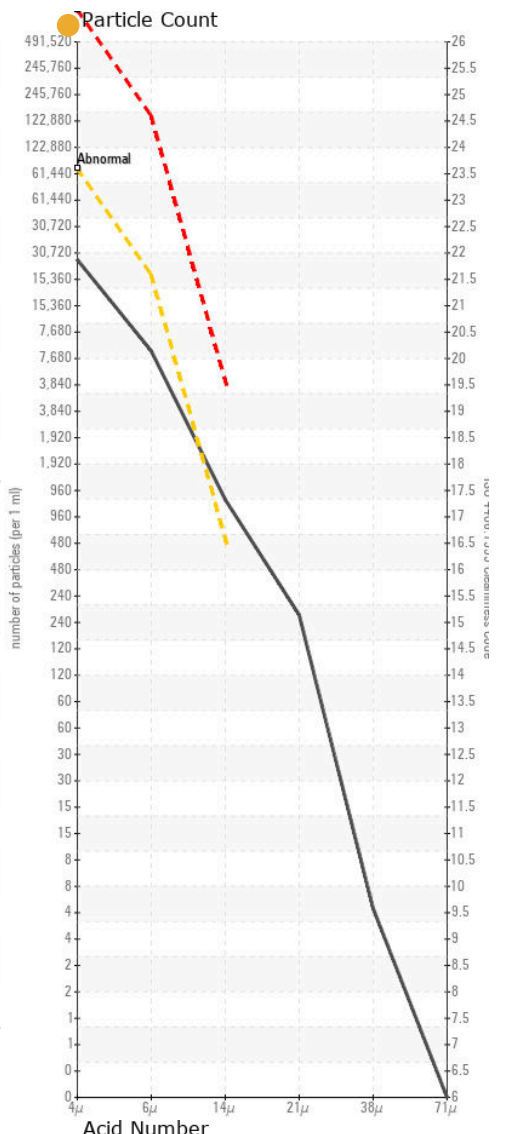
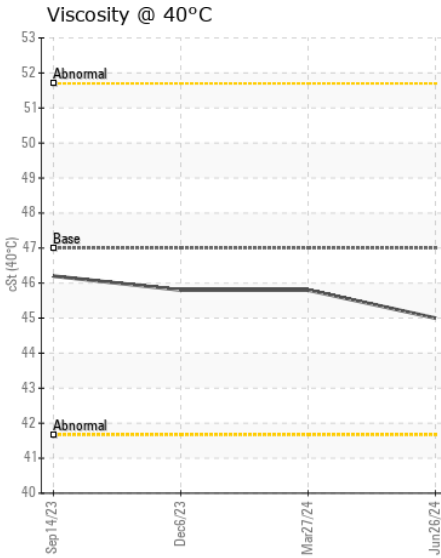
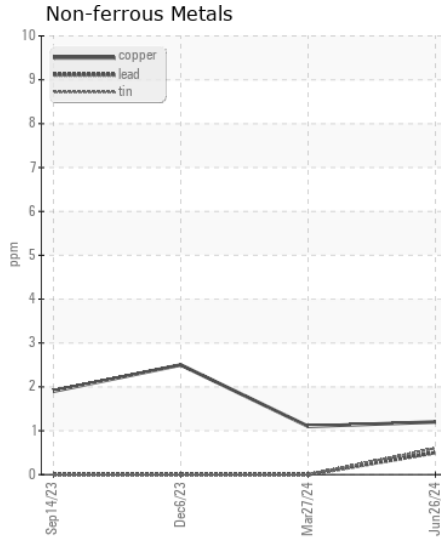
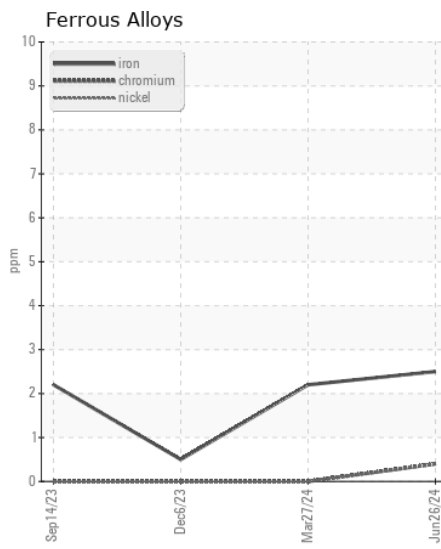
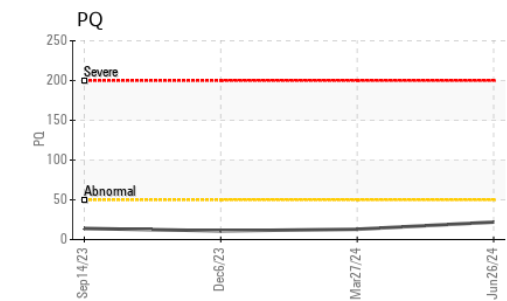
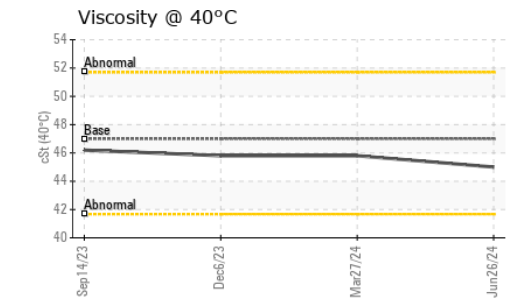
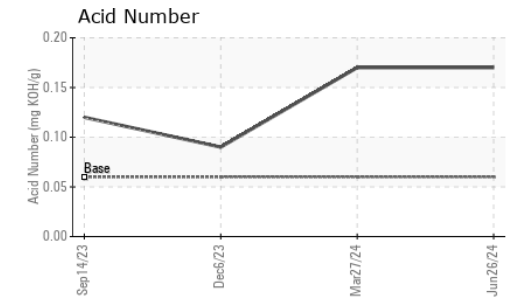
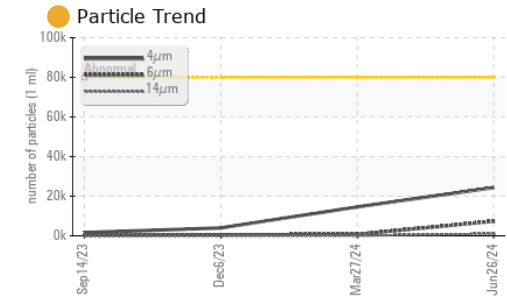
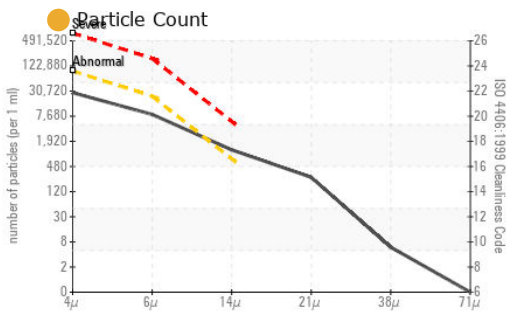
There is a moderate amount of particulates present in the oil.

| | | | | | | |
|------------------|--------|--------------|-----------|----------|----------|----------|
| Silicon | ppm | ASTM D5185m | >11 | 2 | <1 | 1 |
| Potassium | ppm | ASTM D5185m | >20 | <1 | 0 | <1 |
| Water | | WC Method | >0.075 | NEG | NEG | NEG |
| Particles >4µm | | ASTM D7647 | >80000 | 24359 | 14582 | 3989 |
| Particles >6µm | | ASTM D7647 | >20000 | 7374 | 701 | 476 |
| Particles >14µm | | ASTM D7647 | >640 | 1055 | 22 | 25 |
| Particles >21µm | | ASTM D7647 | >160 | 233 | 4 | 4 |
| Particles >38µm | | ASTM D7647 | >40 | 5 | 0 | 0 |
| Particles >71µm | | ASTM D7647 | >10 | 0 | 0 | 0 |
| Oil Cleanliness | | ISO 4406 (c) | >23/21/16 | 22/20/17 | 21/17/12 | 19/16/12 |
| 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 | >0.075 | NEG | NEG | NEG |

FLUID CONDITION

The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

| | | | | | | |
|------------------|----------|-------------|------|------|------|------|
| Sodium | ppm | ASTM D5185m | >21 | 0 | 2 | 1 |
| Boron | ppm | ASTM D5185m | | 0 | 0 | 0 |
| Barium | ppm | ASTM D5185m | | 1 | 0 | 0 |
| Molybdenum | ppm | ASTM D5185m | | <1 | 0 | 0 |
| Manganese | ppm | ASTM D5185m | | <1 | 0 | <1 |
| Magnesium | ppm | ASTM D5185m | | <1 | 0 | <1 |
| Calcium | ppm | ASTM D5185m | | 0 | 2 | 2 |
| Phosphorus | ppm | ASTM D5185m | | 452 | 507 | 545 |
| Zinc | ppm | ASTM D5185m | | 13 | 18 | 13 |
| Sulfur | ppm | ASTM D5185m | | 46 | 93 | 100 |
| Acid Number (AN) | mg KOH/g | ASTM D8045 | 0.06 | 0.17 | 0.17 | 0.09 |
| Visc @ 40°C | cSt | ASTM D445 | 47 | 45.0 | 45.8 | 45.8 |



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : JR0225742 **Received** : 28 Jun 2024
Lab Number : 06223428 **Tested** : 01 Jul 2024
Unique Number : 11101625 **Diagnosed** : 01 Jul 2024 - Don Baldrige
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)