



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

Machine Id
JOHN DEERE 410P 1DW410PACPF06345

Component
Hydraulic System

Fluid
JOHN DEERE HYDRAU (--- GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

| Test | UOM | Method | Limit/Abn | Current | History1 | History2 |
|----------------|-----|-------------|-----------|--------------------|-------------|-------------|
| Sample Number | | Client Info | | JR0224927 | JR0211493 | JR0179099 |
| Sample Date | | Client Info | | 27 Jun 2024 | 16 Apr 2024 | 24 Oct 2023 |
| Machine Age | hrs | Client Info | | 1987 | 1667 | 999 |
| Oil Age | hrs | Client Info | | 1987 | 0 | 999 |
| Filter Age | hrs | Client Info | | 1987 | 0 | 999 |
| Oil Changed | | Client Info | | Not Chngd | Not Chngd | Not Chngd |
| Filter Changed | | Client Info | | Not Chngd | Not Chngd | Not Chngd |
| Sample Status | | | | NORMAL | NORMAL | NORMAL |

WEAR

All component wear rates are normal.

| PQ | UOM | Method | Limit/Abn | Current | History1 | History2 |
|--------------|--------|-------------|-----------|--------------|----------|----------|
| Iron | ppm | ASTM D5185m | >20 | 6 | 3 | 4 |
| Chromium | ppm | ASTM D5185m | >10 | 1 | <1 | <1 |
| Nickel | ppm | ASTM D5185m | >10 | 0 | 0 | 0 |
| Titanium | ppm | ASTM D5185m | | 0 | 0 | <1 |
| Silver | ppm | ASTM D5185m | | 0 | 0 | 0 |
| Aluminum | ppm | ASTM D5185m | >10 | 2 | 1 | 2 |
| Lead | ppm | ASTM D5185m | >10 | 0 | 0 | <1 |
| Copper | ppm | ASTM D5185m | >75 | <1 | 1 | 1 |
| Tin | ppm | ASTM D5185m | >10 | 0 | <1 | 0 |
| Vanadium | ppm | ASTM D5185m | | 0 | 0 | 0 |
| White Metal | scalar | *Visual | NONE | NONE | NONE | NONE |
| Yellow Metal | scalar | *Visual | NONE | NONE | NONE | NONE |

CONTAMINATION

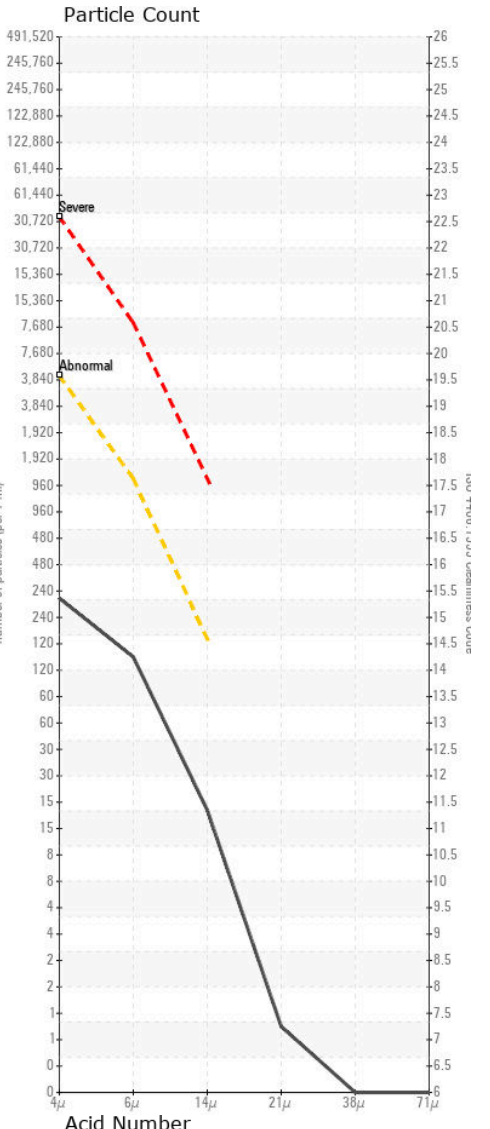
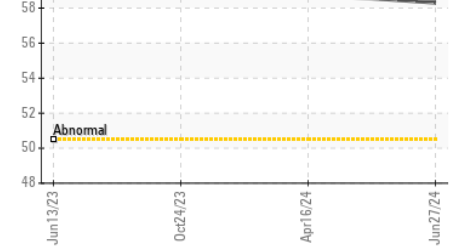
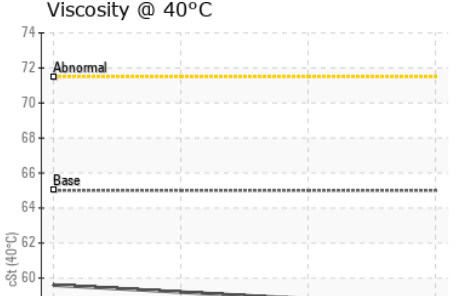
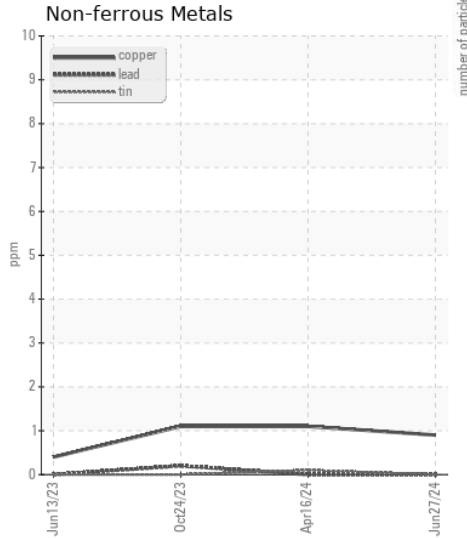
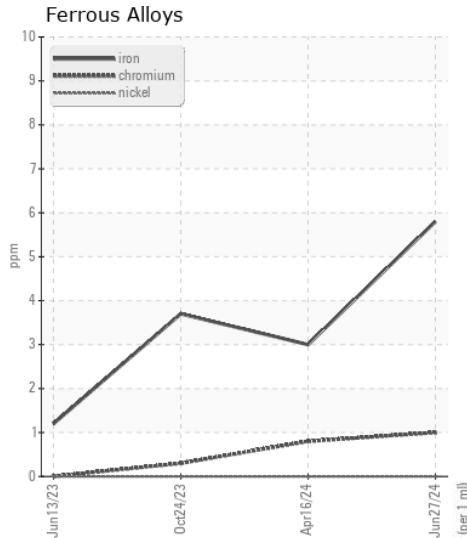
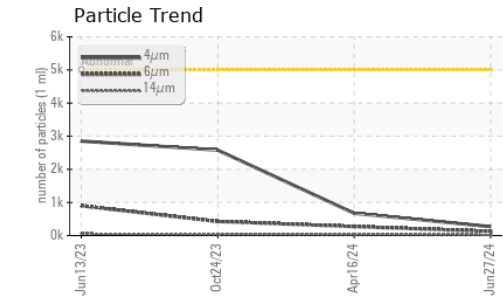
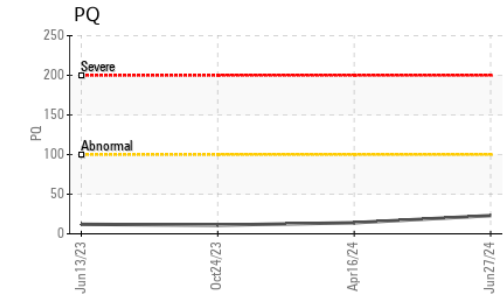
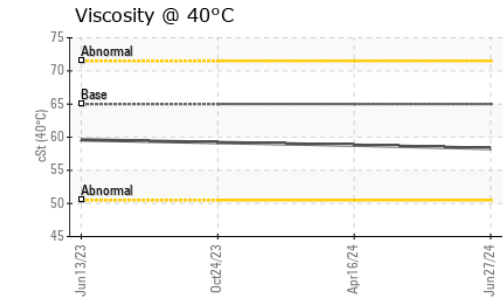
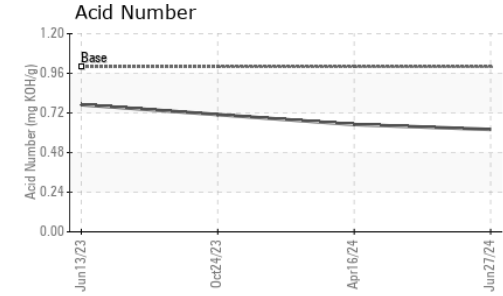
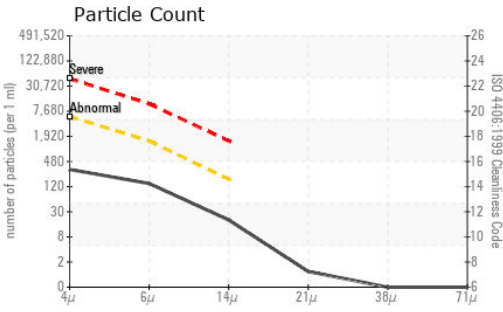
The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The system and fluid cleanliness is acceptable.

| Test | UOM | Method | Limit/Abn | Current | History1 | History2 |
|------------------|--------|--------------|-----------|-----------------|----------|----------|
| Silicon | ppm | ASTM D5185m | >20 | 4 | 3 | 2 |
| Potassium | ppm | ASTM D5185m | >20 | 4 | 2 | 3 |
| Water | | WC Method | >0.1 | NEG | NEG | NEG |
| Particles >4µm | | ASTM D7647 | >5000 | 272 | 672 | 2579 |
| Particles >6µm | | ASTM D7647 | >1300 | 126 | 271 | 426 |
| Particles >14µm | | ASTM D7647 | >160 | 17 | 27 | 34 |
| Particles >21µm | | ASTM D7647 | >40 | 1 | 6 | 9 |
| Particles >38µm | | ASTM D7647 | >10 | 0 | 1 | 0 |
| Particles >71µm | | ASTM D7647 | >3 | 0 | 0 | 0 |
| Oil Cleanliness | | ISO 4406 (c) | >19/17/14 | 15/14/11 | 17/15/12 | 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 | >0.1 | NEG | NEG | NEG |

FLUID CONDITION

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

| Test | UOM | Method | Limit/Abn | Current | History1 | History2 |
|------------------|----------|-------------|-----------|-------------|----------|----------|
| Sodium | ppm | ASTM D5185m | | 3 | 4 | 0 |
| Boron | ppm | ASTM D5185m | | 0 | 0 | 0 |
| Barium | ppm | ASTM D5185m | | 0 | 0 | 3 |
| Molybdenum | ppm | ASTM D5185m | | 0 | 0 | <1 |
| Manganese | ppm | ASTM D5185m | | 0 | <1 | 0 |
| Magnesium | ppm | ASTM D5185m | | 5 | 2 | 2 |
| Calcium | ppm | ASTM D5185m | 87 | 97 | 90 | 95 |
| Phosphorus | ppm | ASTM D5185m | 727 | 697 | 684 | 673 |
| Zinc | ppm | ASTM D5185m | 900 | 866 | 856 | 878 |
| Sulfur | ppm | ASTM D5185m | 1500 | 1988 | 1985 | 1866 |
| Acid Number (AN) | mg KOH/g | ASTM D8045 | 1.0 | 0.62 | 0.65 | 0.71 |
| Visc @ 40°C | cSt | ASTM D445 | 65 | 58.3 | 58.8 | 59.2 |



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : JR0224927 **Received** : 10 Jul 2024
Lab Number : 06232187 **Tested** : 11 Jul 2024
Unique Number : 11115680 **Diagnosed** : 11 Jul 2024 - Wes Davis
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)