



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

Machine Id
JOHN DEERE 350P 1FF350PAENF000413

Component
Hydraulic System

Fluid
{not provided} (--- 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. We were unable to perform a particle count due to a high concentration of particles present in this sample.

| Test | UOM | Method | Limit/Abn | Current | History1 | History2 |
|----------------|-----|-------------|-----------|--------------------|-------------|----------|
| Sample Number | | Client Info | | JR0213073 | JR0190575 | --- |
| Sample Date | | Client Info | | 18 Apr 2024 | 10 Nov 2023 | --- |
| Machine Age | hrs | Client Info | | 1457 | 560 | --- |
| Oil Age | hrs | Client Info | | 1457 | 560 | --- |
| Filter Age | hrs | Client Info | | 0 | 0 | --- |
| Oil Changed | | Client Info | | Not Changed | Not Changed | --- |
| Filter Changed | | Client Info | | Changed | Not Changed | --- |
| Sample Status | | | | ABNORMAL | NORMAL | --- |

WEAR

All component wear rates are normal.

| PQ | UOM | Method | Limit/Abn | Current | History1 | History2 |
|--------------|--------|-------------|-----------|--------------|----------|----------|
| PQ | | ASTM D8184 | >50 | 17 | 11 | --- |
| Iron | ppm | ASTM D5185m | >32 | 4 | 3 | --- |
| Chromium | ppm | ASTM D5185m | >9 | 0 | <1 | --- |
| Nickel | ppm | ASTM D5185m | >5 | 0 | 0 | --- |
| Titanium | ppm | ASTM D5185m | | 0 | <1 | --- |
| Silver | ppm | ASTM D5185m | | 0 | 0 | --- |
| Aluminum | ppm | ASTM D5185m | >9 | 2 | 1 | --- |
| Lead | ppm | ASTM D5185m | >28 | <1 | 0 | --- |
| Copper | ppm | ASTM D5185m | >50 | 6 | 3 | --- |
| Tin | ppm | ASTM D5185m | >5 | <1 | 0 | --- |
| Vanadium | ppm | ASTM D5185m | | 0 | 0 | --- |
| White Metal | scalar | *Visual | NONE | NONE | NONE | --- |
| Yellow Metal | scalar | *Visual | NONE | NONE | NONE | --- |

CONTAMINATION

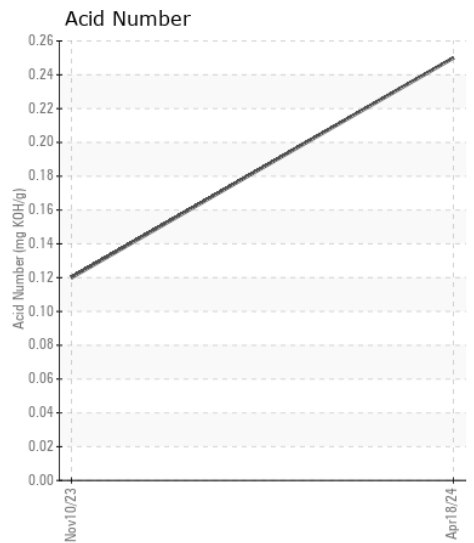
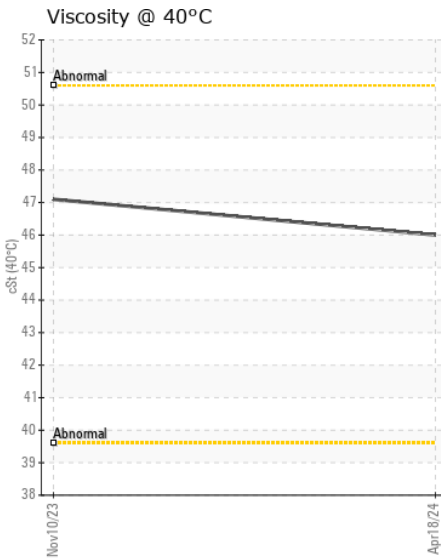
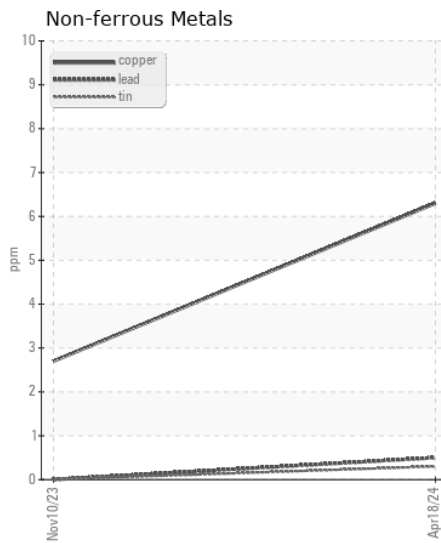
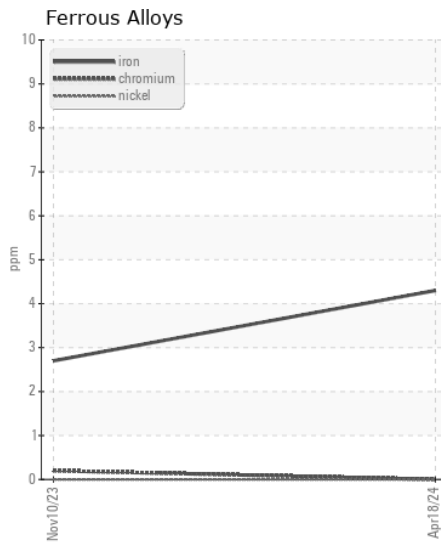
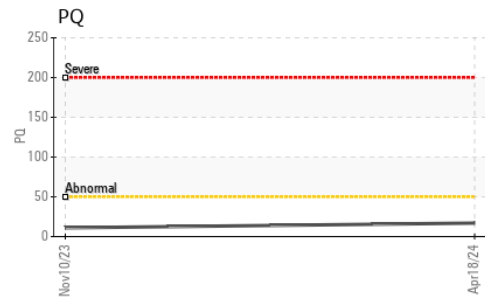
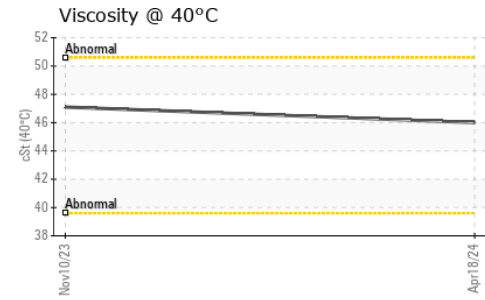
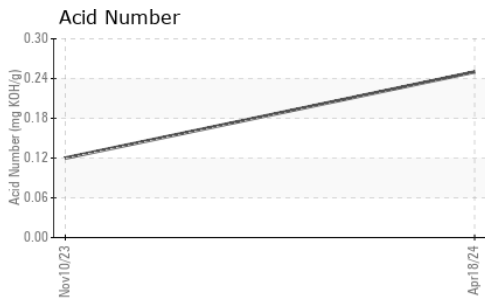
Moderate concentration of visible dirt/debris present in the oil.

| | | | | | | |
|------------------|--------|--------------|-----------|----------------|----------|-----|
| Silicon | ppm | ASTM D5185m | >11 | 4 | 3 | --- |
| Potassium | ppm | ASTM D5185m | >20 | 3 | 2 | --- |
| Water | | WC Method | >0.075 | NEG | NEG | --- |
| Particles >4µm | | ASTM D7647 | >80000 | --- | 29771 | --- |
| Particles >6µm | | ASTM D7647 | >20000 | --- | 3482 | --- |
| Particles >14µm | | ASTM D7647 | >640 | --- | 180 | --- |
| Particles >21µm | | ASTM D7647 | >160 | --- | 38 | --- |
| Particles >38µm | | ASTM D7647 | >40 | --- | 0 | --- |
| Particles >71µm | | ASTM D7647 | >10 | --- | 0 | --- |
| Oil Cleanliness | | ISO 4406 (c) | >23/21/16 | --- | 22/19/15 | --- |
| Silt | scalar | *Visual | NONE | NONE | NONE | --- |
| Debris | scalar | *Visual | NONE | ▲ MODER | NONE | --- |
| Sand/Dirt | scalar | *Visual | NONE | NONE | NONE | --- |
| Appearance | scalar | *Visual | NORML | NORML | NORML | --- |
| Odor | scalar | *Visual | NORML | NORML | NORML | --- |
| Emulsified Water | scalar | *Visual | >0.075 | NEG | NEG | --- |

FLUID CONDITION

The AN level is acceptable for this fluid. The condition of the oil is acceptable for the time in service.

| | | | | | | |
|------------------|----------|-------------|-----|--------------|------|-----|
| Sodium | ppm | ASTM D5185m | >21 | 4 | <1 | --- |
| Boron | ppm | ASTM D5185m | | 0 | 0 | --- |
| Barium | ppm | ASTM D5185m | | 0 | 0 | --- |
| Molybdenum | ppm | ASTM D5185m | | <1 | <1 | --- |
| Manganese | ppm | ASTM D5185m | | <1 | 0 | --- |
| Magnesium | ppm | ASTM D5185m | | 3 | 14 | --- |
| Calcium | ppm | ASTM D5185m | | 25 | 10 | --- |
| Phosphorus | ppm | ASTM D5185m | | 572 | 552 | --- |
| Zinc | ppm | ASTM D5185m | | 82 | 53 | --- |
| Sulfur | ppm | ASTM D5185m | | 348 | 131 | --- |
| Acid Number (AN) | mg KOH/g | ASTM D8045 | | 0.25 | 0.12 | --- |
| Visc @ 40°C | cSt | ASTM D445 | | 46.0 | 47.1 | --- |



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513

Sample No. : JR0213073

Lab Number : 06154232

Unique Number : 10989655

Test Package : CONST (Additional Tests: PQ)

Received : 19 Apr 2024

Tested : 23 Apr 2024

Diagnosed : 23 Apr 2024 - Don Baldrige

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)

JRE - GARNER

4161 AUBURN CHURCH RD

GARNER, NC

US 27529

Contact: RENN MASHBURN

renn.mashburn@jamesriverequipment.com

T:

F: (919)779-5432