



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



Machine Id
JOHN DEERE 724K 1DW724KZLGF674537

Component
Hydraulic System

Fluid
JOHN DEERE HYDRAU (28 GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

| Test | UOM | Method | Limit/Abn | Current | History1 | History2 |
|----------------|-----|-------------|-----------|--------------------|-------------|-------------|
| Sample Number | | Client Info | | JR0203499 | JR0143704 | JR0108880 |
| Sample Date | | Client Info | | 08 Feb 2024 | 15 Sep 2022 | 28 Nov 2021 |
| Machine Age | hrs | Client Info | | 6898 | 6603 | 5609 |
| Oil Age | hrs | Client Info | | 5904 | 0 | 500 |
| Filter Age | hrs | Client Info | | 0 | 0 | 500 |
| Oil Changed | | Client Info | | Not Chngd | N/A | Changed |
| Filter Changed | | Client Info | | Not Chngd | N/A | Changed |
| Sample Status | | | | NORMAL | NORMAL | NORMAL |

WEAR

All component wear rates are normal.

| | | | | | | |
|--------------|--------|-------------|------|--------------|------|------|
| PQ | | ASTM D8184 | >50 | 16 | 7 | --- |
| Iron | ppm | ASTM D5185m | >71 | 0 | <1 | 35 |
| Chromium | ppm | ASTM D5185m | >11 | 0 | 0 | 10 |
| Nickel | ppm | ASTM D5185m | >6 | <1 | 0 | 0 |
| Titanium | ppm | ASTM D5185m | | 0 | 0 | <1 |
| Silver | ppm | ASTM D5185m | | 0 | 0 | 0 |
| Aluminum | ppm | ASTM D5185m | >11 | <1 | 0 | 5 |
| Lead | ppm | ASTM D5185m | >13 | 0 | 0 | 0 |
| Copper | ppm | ASTM D5185m | >21 | 0 | 0 | 4 |
| Tin | ppm | ASTM D5185m | >5 | 0 | 0 | 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

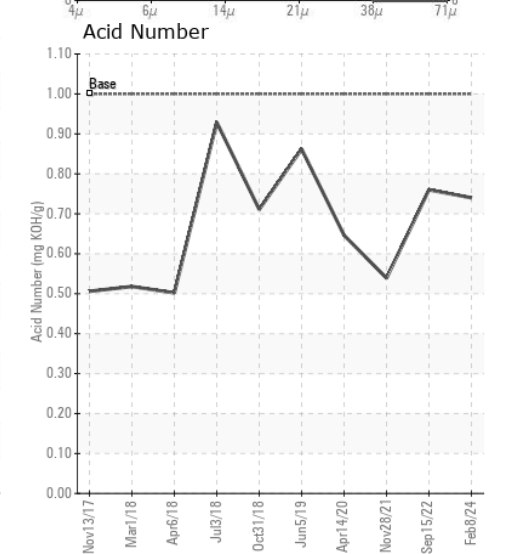
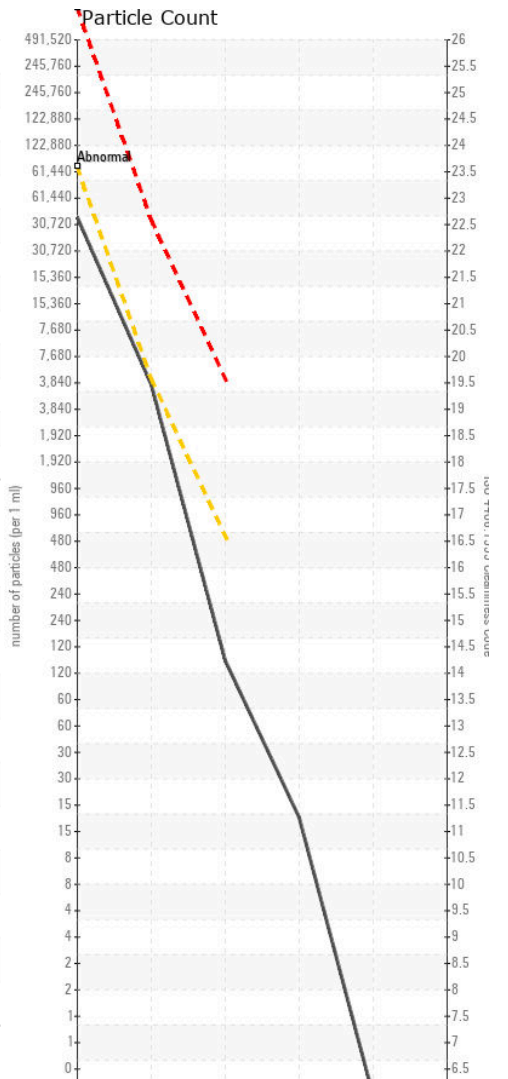
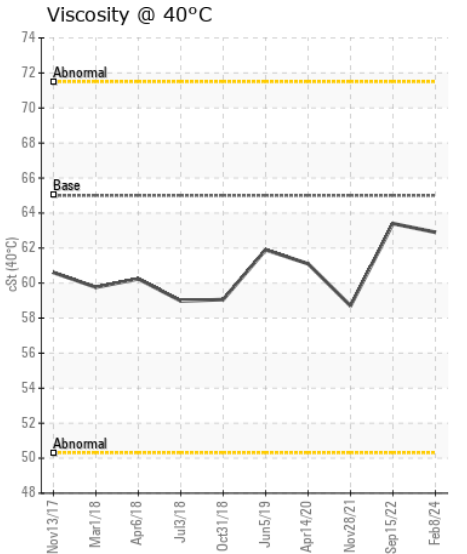
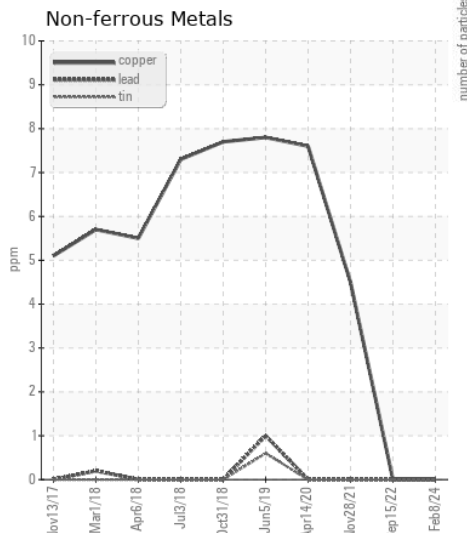
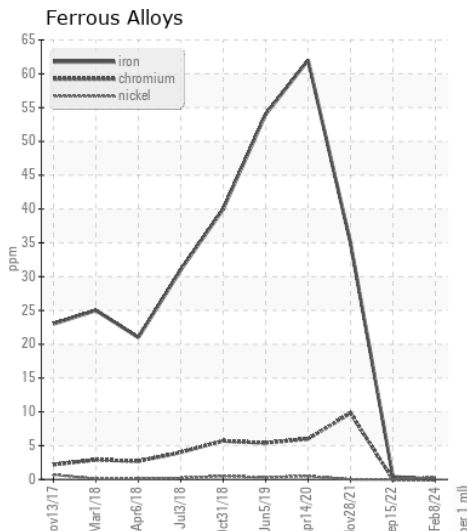
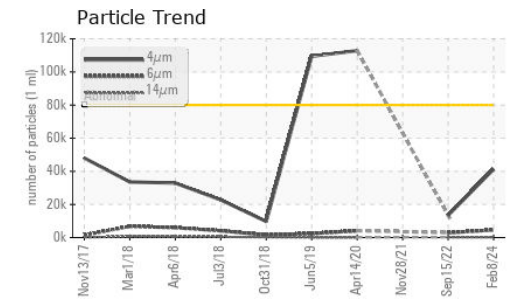
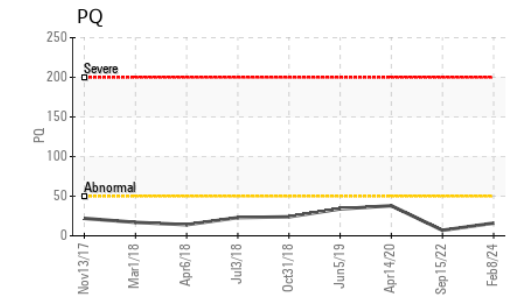
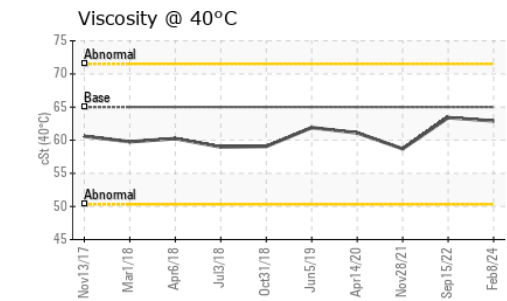
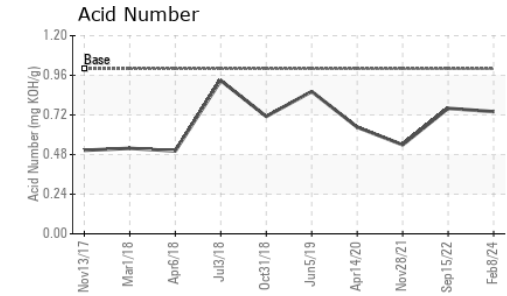
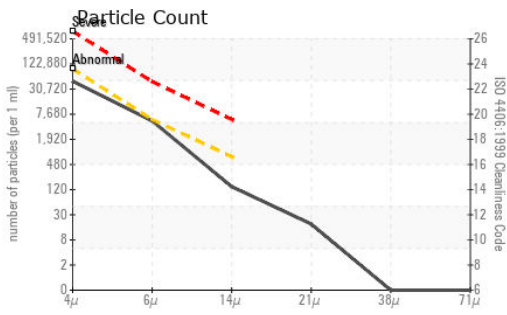
The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The system and fluid cleanliness is acceptable.

| | | | | | | |
|------------------|--------|--------------|-----------|-----------------|----------|-------|
| Silicon | ppm | ASTM D5185m | >24 | <1 | <1 | 6 |
| Potassium | ppm | ASTM D5185m | >20 | <1 | 0 | 0 |
| Water | | WC Method | >0.075 | NEG | NEG | NEG |
| Particles >4µm | | ASTM D7647 | >80000 | 41313 | 13381 | --- |
| Particles >6µm | | ASTM D7647 | >5000 | 4628 | 2887 | --- |
| Particles >14µm | | ASTM D7647 | >640 | 125 | 126 | --- |
| Particles >21µm | | ASTM D7647 | >160 | 16 | 19 | --- |
| Particles >38µm | | ASTM D7647 | >40 | 0 | 1 | --- |
| Particles >71µm | | ASTM D7647 | >10 | 0 | 0 | --- |
| Oil Cleanliness | | ISO 4406 (c) | >23/19/16 | 23/19/14 | 21/19/14 | --- |
| 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 | <1 | 4 |
| Boron | ppm | ASTM D5185m | | 4 | 9 | 17 |
| Barium | ppm | ASTM D5185m | | 0 | 0 | 0 |
| Molybdenum | ppm | ASTM D5185m | | 2 | 8 | 14 |
| Manganese | ppm | ASTM D5185m | | 0 | 0 | <1 |
| Magnesium | ppm | ASTM D5185m | | 13 | 24 | 47 |
| Calcium | ppm | ASTM D5185m | 87 | 107 | 151 | 276 |
| Phosphorus | ppm | ASTM D5185m | 727 | 695 | 640 | 665 |
| Zinc | ppm | ASTM D5185m | 900 | 907 | 825 | 762 |
| Sulfur | ppm | ASTM D5185m | 1500 | 1723 | 2266 | 1641 |
| Acid Number (AN) | mg KOH/g | ASTM D8045 | 1.0 | 0.74 | 0.76 | 0.539 |
| Visc @ 40°C | cSt | ASTM D445 | 65 | 62.9 | 63.4 | 58.7 |



Certificate L2367

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

Sample No. : JR0203499

Lab Number : 06088694

Unique Number : 10876139

Test Package : CONST (Additional Tests: PQ)

Received : 14 Feb 2024

Tested : 15 Feb 2024

Diagnosed : 15 Feb 2024 - Wes Davis

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 - CHARLOTTE

9550 STATESVILLE ROAD

CHARLOTTE, NC

US 28269

Contact: CHARLOTTE SHOP

myoung@jamesriverequipment.com

T: (704)597-0211

F: (704)596-6198