



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

Machine Id
JOHN DEERE 624 P 1DW624PATNLZ14642

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 | | JR0206657 | JR0198405 | JR0177390 |
| Sample Date | | Client Info | | 19 Apr 2024 | 15 Jan 2024 | 09 Aug 2023 |
| Machine Age | hrs | Client Info | | 2523 | 2317 | 1726 |
| Oil Age | hrs | Client Info | | 1233 | 1618 | 699 |
| Filter Age | hrs | Client Info | | 0 | 0 | 0 |
| Oil Changed | | Client Info | | Not Chngd | Not Chngd | Not Chngd |
| Filter Changed | | Client Info | | Not Chngd | Not Chngd | Not Chngd |
| Sample Status | | | | NORMAL | ABNORMAL | NORMAL |

WEAR

All component wear rates are normal.

| PQ | UOM | Method | Limit/Abn | Current | History1 | History2 |
|--------------|--------|-------------|-----------|--------------|----------|----------|
| PQ | | ASTM D8184 | | 15 | 12 | 12 |
| Iron | ppm | ASTM D5185m | >20 | 2 | 0 | <1 |
| Chromium | ppm | ASTM D5185m | >10 | 2 | 0 | 1 |
| Nickel | ppm | ASTM D5185m | >10 | <1 | 0 | 0 |
| Titanium | ppm | ASTM D5185m | | <1 | 0 | <1 |
| Silver | ppm | ASTM D5185m | | 0 | 0 | 0 |
| Aluminum | ppm | ASTM D5185m | >10 | 2 | <1 | <1 |
| Lead | ppm | ASTM D5185m | >10 | <1 | <1 | <1 |
| Copper | ppm | ASTM D5185m | >75 | <1 | 0 | <1 |
| Tin | ppm | ASTM D5185m | >10 | <1 | 0 | <1 |
| Vanadium | ppm | ASTM D5185m | | <1 | 0 | <1 |
| White Metal | scalar | *Visual | NONE | NONE | NONE | NONE |
| Yellow Metal | scalar | *Visual | NONE | NONE | NONE | NONE |

CONTAMINATION

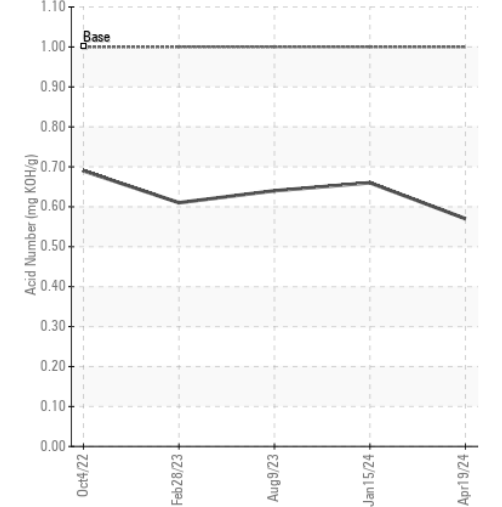
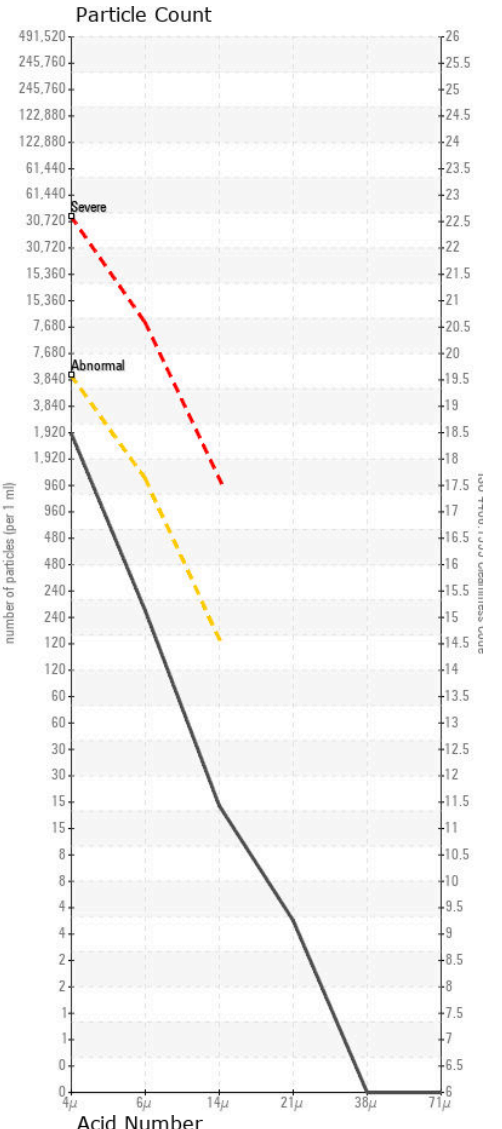
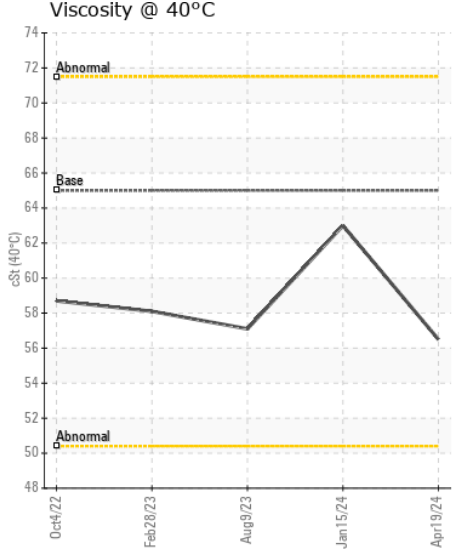
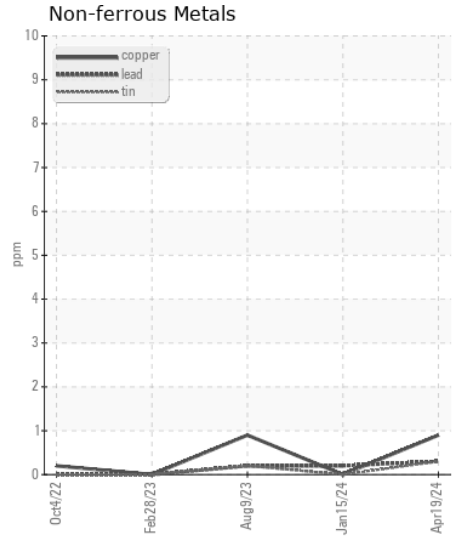
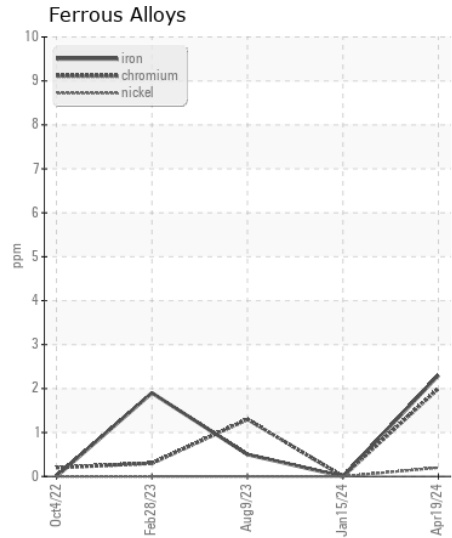
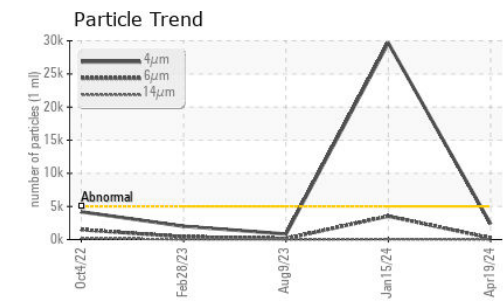
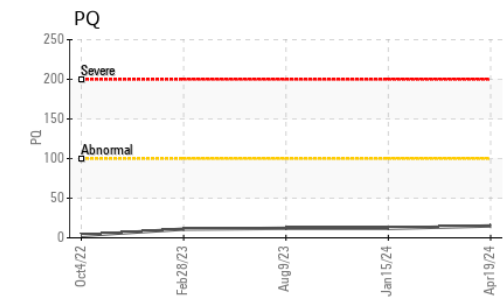
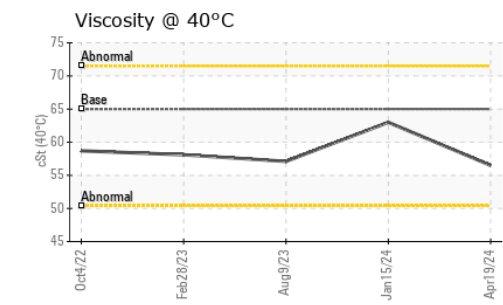
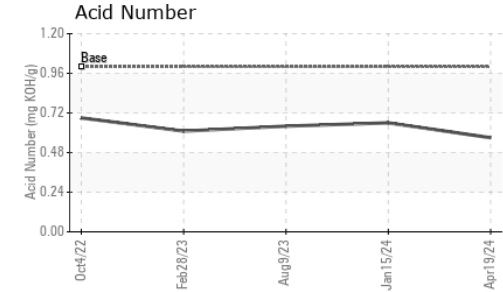
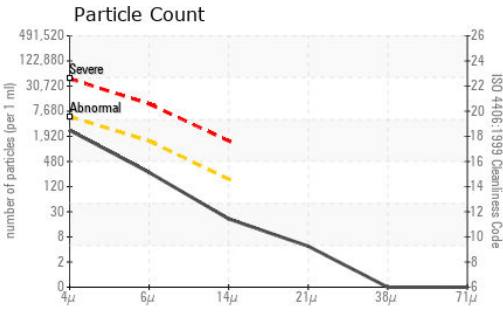
The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The system and fluid cleanliness is acceptable.

| | | | | | | |
|------------------|--------|--------------|-----------|-----------------|------------|----------|
| Silicon | ppm | ASTM D5185m | >20 | 2 | <1 | <1 |
| Potassium | ppm | ASTM D5185m | >20 | 4 | <1 | 3 |
| Water | | WC Method | >0.1 | NEG | NEG | NEG |
| Particles >4µm | | ASTM D7647 | >5000 | 2346 | ▲ 29675 | 834 |
| Particles >6µm | | ASTM D7647 | >1300 | 231 | ▲ 3538 | 147 |
| Particles >14µm | | ASTM D7647 | >160 | 18 | 44 | 11 |
| Particles >21µm | | ASTM D7647 | >40 | 4 | 5 | 3 |
| Particles >38µm | | ASTM D7647 | >10 | 0 | 1 | 0 |
| Particles >71µm | | ASTM D7647 | >3 | 0 | 1 | 0 |
| Oil Cleanliness | | ISO 4406 (c) | >19/17/14 | 18/15/11 | ▲ 22/19/13 | 17/14/11 |
| 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.

| | | | | | | |
|------------------|----------|-------------|------|--------------|------|------|
| Sodium | ppm | ASTM D5185m | | 2 | 0 | 4 |
| Boron | ppm | ASTM D5185m | | 0 | 3 | 0 |
| Barium | ppm | ASTM D5185m | | 0 | 0 | <1 |
| Molybdenum | ppm | ASTM D5185m | | <1 | 1 | <1 |
| Manganese | ppm | ASTM D5185m | | 0 | <1 | <1 |
| Magnesium | ppm | ASTM D5185m | | 3 | 14 | 8 |
| Calcium | ppm | ASTM D5185m | 87 | 92 | 100 | 99 |
| Phosphorus | ppm | ASTM D5185m | 727 | 634 | 673 | 636 |
| Zinc | ppm | ASTM D5185m | 900 | 857 | 832 | 862 |
| Sulfur | ppm | ASTM D5185m | 1500 | 1711 | 1565 | 1948 |
| Acid Number (AN) | mg KOH/g | ASTM D8045 | 1.0 | 0.57 | 0.66 | 0.64 |
| Visc @ 40°C | cSt | ASTM D445 | 65 | 56.5 | 63.0 | 57.1 |



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : JR0206657 **Received** : 23 Apr 2024
Lab Number : 06157545 **Tested** : 24 Apr 2024
Unique Number : 10992968 **Diagnosed** : 24 Apr 2024 - Wes Davis
Test Package : CONST (Additional Tests: PQ)

CARLTON'S BACKHOE
 9550 STATESVILLE ROAD
 CHARLOTTE, NC
 US 28269
 Contact: LEO

Certificate L2367
 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)

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