



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

Machine Id
JOHN DEERE 624L 1DW624LZVLF706825
 Component
Hydraulic System
 Fluid
JOHN DEERE HYDRAU (--- GAL)

RECOMMENDATION

No corrective action is recommended at this time. Resample at the next service interval to monitor.

| Test | UOM | Method | Limit/Abn | Current | History1 | History2 |
|----------------|-----|-------------|-----------|--------------------|-------------|-------------|
| Sample Number | | Client Info | | JR0218355 | JR0196037 | JR0190106 |
| Sample Date | | Client Info | | 19 Jun 2024 | 23 Feb 2024 | 02 Nov 2023 |
| Machine Age | hrs | Client Info | | 7429 | 6930 | 6434 |
| Oil Age | hrs | Client Info | | 499 | 0 | 4216 |
| Filter Age | hrs | Client Info | | 0 | 0 | 0 |
| Oil Changed | | Client Info | | Not Chngd | Changed | Changed |
| Filter Changed | | Client Info | | Not Chngd | Changed | Changed |
| Sample Status | | | | ATTENTION | SEVERE | SEVERE |

WEAR

All component wear rates are normal.

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

CONTAMINATION

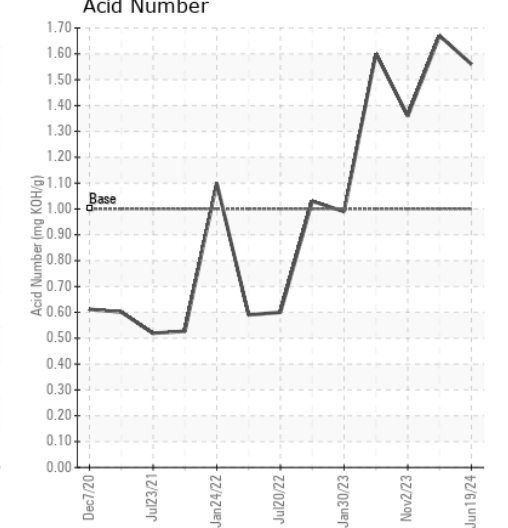
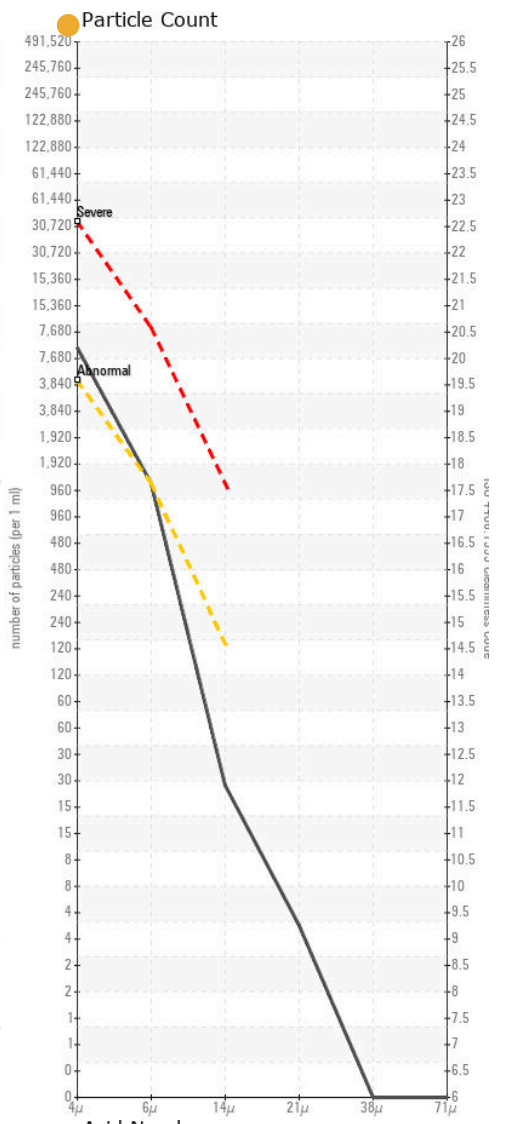
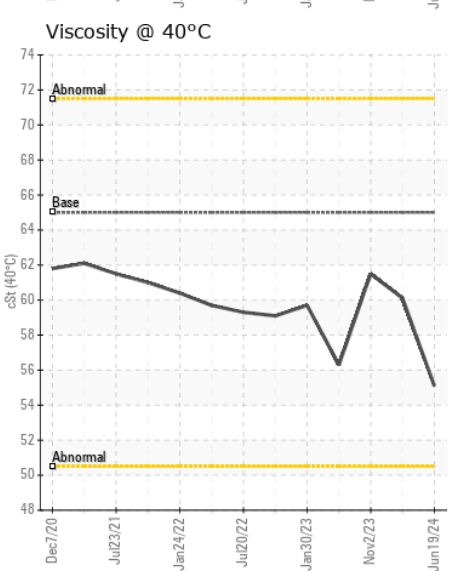
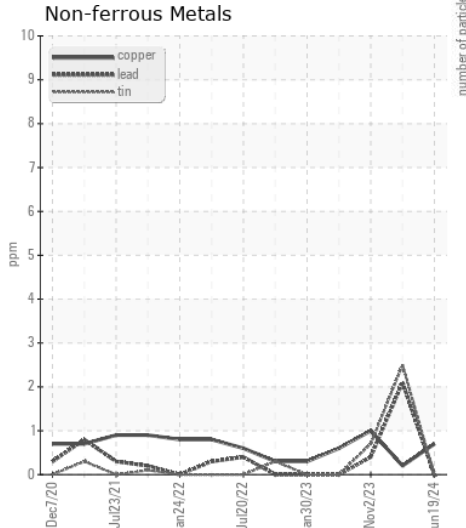
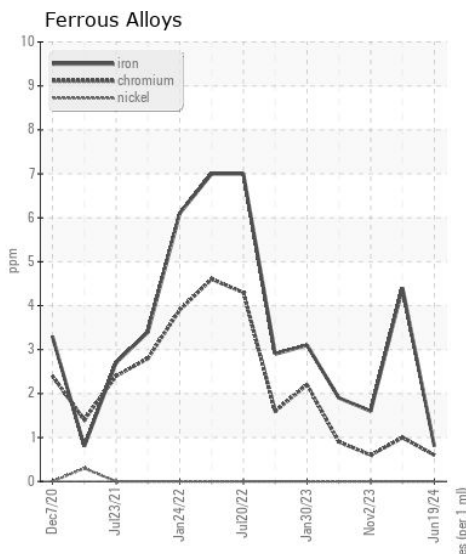
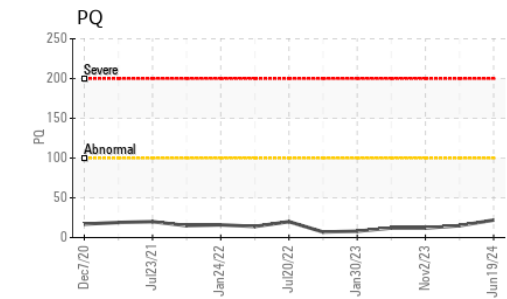
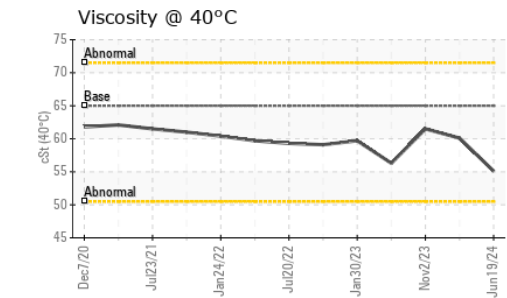
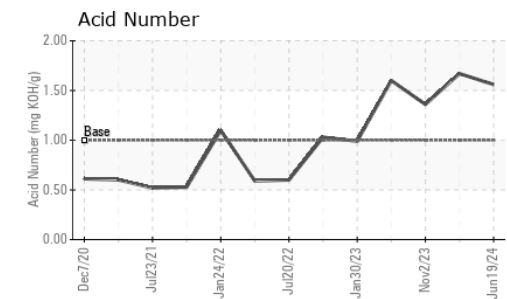
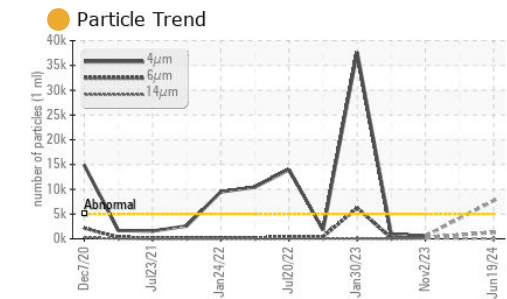
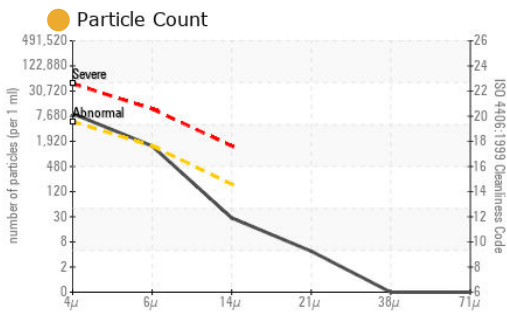
There is a moderate amount of silt (particulates < 6 microns in size) present in the oil.

| | | | | | | |
|------------------|--------|--------------|-----------|-----------------|---------------|---------------|
| Silicon | ppm | ASTM D5185m | >20 | 3 | 4 | 4 |
| Potassium | ppm | ASTM D5185m | >20 | 4 | 5 | 2 |
| Water | | WC Method | >0.1 | NEG | NEG | NEG |
| Particles >4µm | | ASTM D7647 | >5000 | 7704 | --- | 539 |
| Particles >6µm | | ASTM D7647 | >1300 | 1300 | --- | 294 |
| Particles >14µm | | ASTM D7647 | >160 | 25 | --- | 50 |
| Particles >21µm | | ASTM D7647 | >40 | 4 | --- | 17 |
| Particles >38µm | | ASTM D7647 | >10 | 0 | --- | 3 |
| Particles >71µm | | ASTM D7647 | >3 | 0 | --- | 0 |
| Oil Cleanliness | | ISO 4406 (c) | >19/17/14 | 20/17/12 | --- | 16/15/13 |
| 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 | MILKY | MILKY |
| Odor | scalar | *Visual | NORML | NORML | NORML | NORML |
| Emulsified Water | scalar | *Visual | >0.1 | NEG | ▲ 0.2% | ▲ 0.2% |

FLUID CONDITION

The AN level is acceptable for this fluid. The condition of the oils additive package is suitable for further service.

| | | | | | | |
|------------------|----------|-------------|------|--------------|------|------|
| Sodium | ppm | ASTM D5185m | | 6 | 6 | 2 |
| Boron | ppm | ASTM D5185m | | 6 | 12 | 11 |
| Barium | ppm | ASTM D5185m | | 0 | 0 | 0 |
| Molybdenum | ppm | ASTM D5185m | | <1 | 2 | 2 |
| Manganese | ppm | ASTM D5185m | | <1 | 0 | <1 |
| Magnesium | ppm | ASTM D5185m | | 25 | 30 | 31 |
| Calcium | ppm | ASTM D5185m | 87 | 1538 | 1700 | 1624 |
| Phosphorus | ppm | ASTM D5185m | 727 | 926 | 978 | 902 |
| Zinc | ppm | ASTM D5185m | 900 | 1052 | 1203 | 1111 |
| Sulfur | ppm | ASTM D5185m | 1500 | 3045 | 2827 | 2664 |
| Acid Number (AN) | mg KOH/g | ASTM D8045 | 1.0 | 1.56 | 1.67 | 1.36 |
| Visc @ 40°C | cSt | ASTM D445 | 65 | 55.1 | 60.1 | 61.5 |



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : JR0218355 **Received** : 24 Jun 2024
Lab Number : 06218083 **Tested** : 25 Jun 2024
Unique Number : 11096280 **Diagnosed** : 25 Jun 2024 - Jonathan Hester
Test Package : CONST (Additional Tests: PQ)

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 - MANASSAS PARK
 9107 OWENS DRIVE
 MANASSAS PARK, VA
 US 20111

Contact: DON VEST
 dvest@jamesriverequipment.com

T: (703)631-8500

F: (703)631-4715