



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

Area
[44275]
 Machine Id
JOHN DEERE 501075
 Component
Hydraulic System
 Fluid
JOHN DEERE HYDRAU (--- QTS)

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 | | JR0199084 | JR0132135 | --- |
| Sample Date | | Client Info | | 11 Jan 2024 | 18 May 2022 | --- |
| Machine Age | hrs | Client Info | | 1366 | 646 | --- |
| Oil Age | hrs | Client Info | | 1366 | 646 | --- |
| Filter Age | hrs | Client Info | | 0 | 646 | --- |
| Oil Changed | | Client Info | | N/A | Not Changd | --- |
| Filter Changed | | Client Info | | N/A | Not Changd | --- |
| Sample Status | | | | ABNORMAL | ABNORMAL | --- |

WEAR

All component wear rates are normal.

| PQ | UOM | Method | Limit/Abn | Current | History1 | History2 |
|--------------|--------|-------------|-----------|--------------|----------|----------|
| Iron | ppm | ASTM D5185m | >20 | 15 | 9 | --- |
| Chromium | ppm | ASTM D5185m | >10 | 11 | 7 | --- |
| Nickel | ppm | ASTM D5185m | >10 | 0 | 0 | --- |
| Titanium | ppm | ASTM D5185m | | 0 | 0 | --- |
| Silver | ppm | ASTM D5185m | | 0 | 0 | --- |
| Aluminum | ppm | ASTM D5185m | >10 | 2 | 2 | --- |
| Lead | ppm | ASTM D5185m | >10 | <1 | <1 | --- |
| Copper | ppm | ASTM D5185m | >75 | 2 | 1 | --- |
| Tin | ppm | ASTM D5185m | >10 | 0 | 0 | --- |
| Vanadium | ppm | ASTM D5185m | | 0 | 0 | --- |
| White Metal | scalar | *Visual | NONE | NONE | NONE | --- |
| Yellow Metal | scalar | *Visual | NONE | NONE | NONE | --- |

CONTAMINATION

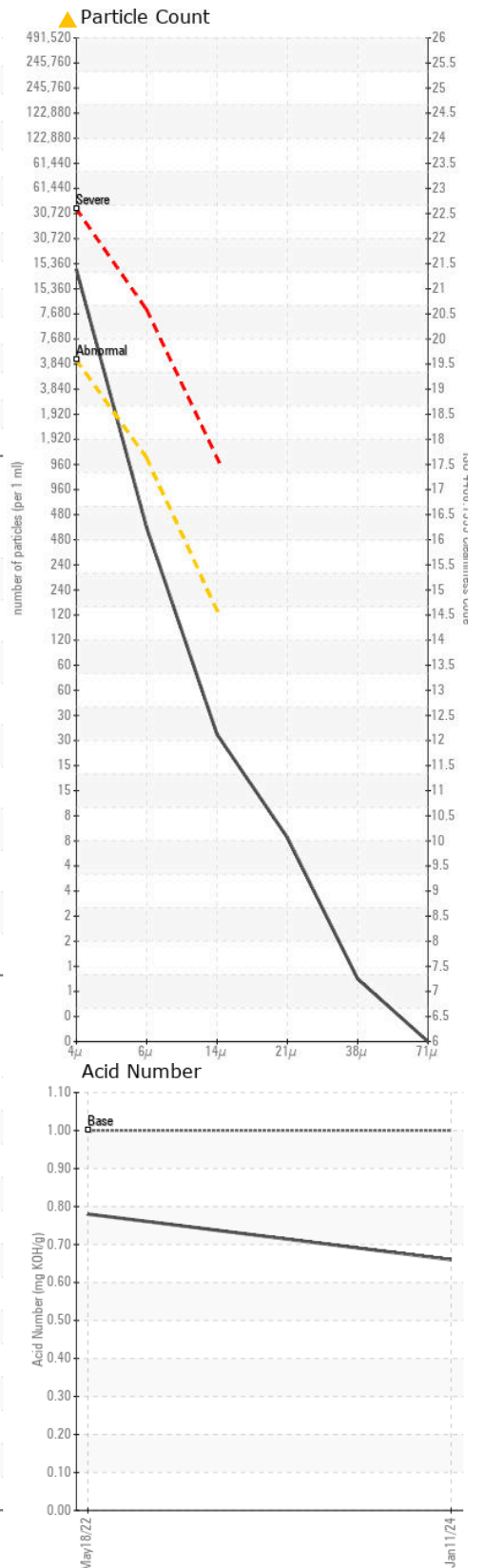
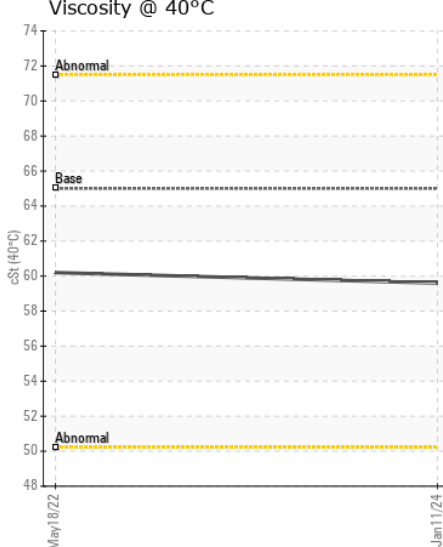
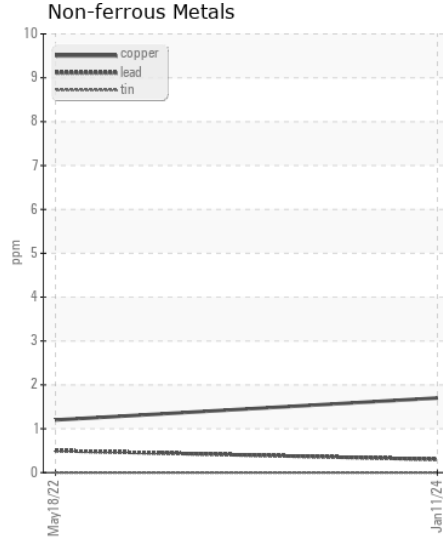
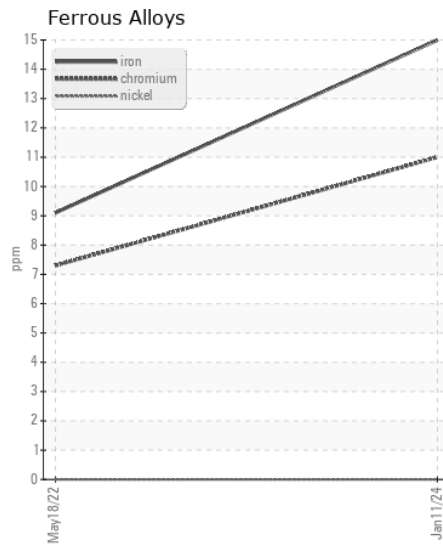
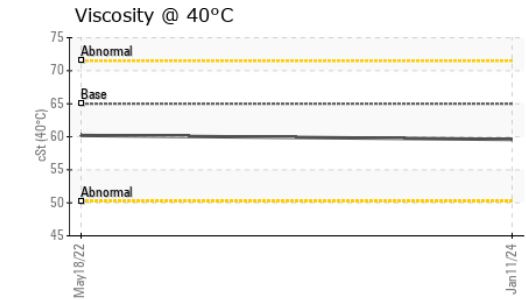
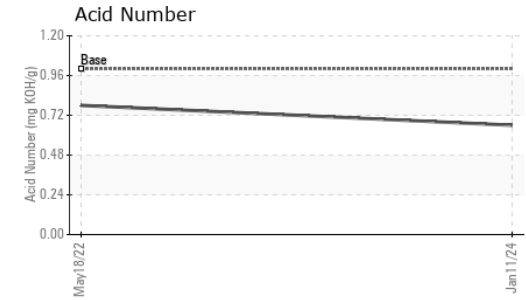
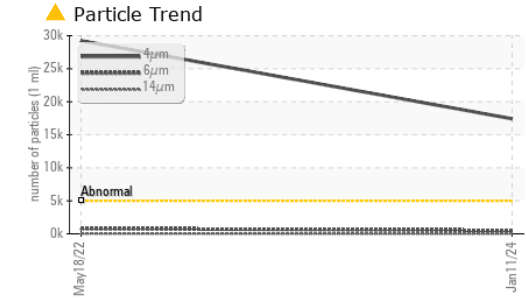
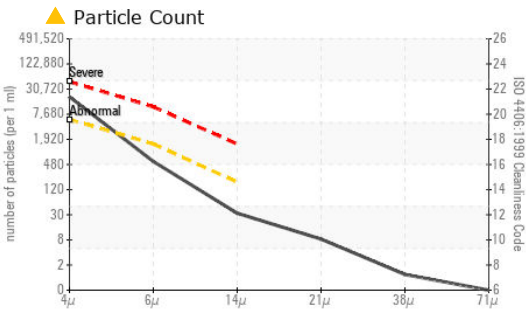
There is a high amount of silt (particulates < 14 microns in size) present in the oil.

| | | | | | | |
|------------------|--------|--------------|-----------|-------------------|------------|-----|
| Silicon | ppm | ASTM D5185m | >20 | 4 | 2 | --- |
| Potassium | ppm | ASTM D5185m | >20 | 11 | 10 | --- |
| Water | | WC Method | >0.1 | NEG | NEG | --- |
| Particles >4µm | | ASTM D7647 | >5000 | ▲ 17424 | ▲ 29240 | --- |
| Particles >6µm | | ASTM D7647 | >1300 | 498 | 785 | --- |
| Particles >14µm | | ASTM D7647 | >160 | 29 | 41 | --- |
| Particles >21µm | | ASTM D7647 | >40 | 7 | 9 | --- |
| Particles >38µm | | ASTM D7647 | >10 | 1 | 0 | --- |
| Particles >71µm | | ASTM D7647 | >3 | 0 | 0 | --- |
| Oil Cleanliness | | ISO 4406 (c) | >19/17/14 | ▲ 21/16/12 | ▲ 22/17/13 | --- |
| Silt | scalar | *Visual | NONE | NONE | NONE | --- |
| Debris | scalar | *Visual | NONE | NONE | NONE | --- |
| Sand/Dirt | scalar | *Visual | NONE | NONE | NONE | --- |
| Appearance | scalar | *Visual | NORML | NORML | NORML | --- |
| Odor | scalar | *Visual | NORML | NORML | NORML | --- |
| Emulsified Water | scalar | *Visual | >0.1 | 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 | | 0 | 0 | --- |
| Boron | ppm | ASTM D5185m | | 17 | 23 | --- |
| Barium | ppm | ASTM D5185m | | 3 | 0 | --- |
| Molybdenum | ppm | ASTM D5185m | | 16 | 17 | --- |
| Manganese | ppm | ASTM D5185m | | 0 | <1 | --- |
| Magnesium | ppm | ASTM D5185m | | 50 | 54 | --- |
| Calcium | ppm | ASTM D5185m | 87 | 160 | 185 | --- |
| Phosphorus | ppm | ASTM D5185m | 727 | 717 | 678 | --- |
| Zinc | ppm | ASTM D5185m | 900 | 895 | 935 | --- |
| Sulfur | ppm | ASTM D5185m | 1500 | 2008 | 1609 | --- |
| Acid Number (AN) | mg KOH/g | ASTM D8045 | 1.0 | 0.66 | 0.78 | --- |
| Visc @ 40°C | cSt | ASTM D445 | 65 | 59.6 | 60.2 | --- |



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
 Sample No. : JR0199084 Recieved : 17 Jan 2024
 Lab Number : 06063493 Diagnosed : 19 Jan 2024
 Unique Number : 10834875 Diagnostician : Don Baldrige
 Test Package : CONST (Additional Tests: PQ)

NPL CONSTRUCTION
 7611 COPPERMINE DR
 MANASSAS, VA
 US 20109-2668
 Contact: BRANDON

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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F: