



OIL ANALYSIS REPORT

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



Area
[A35771]
 Machine Id
JOHN DEERE 644P 1DW644PAARLX23263
 Component
Tank Hydraulic System
 Fluid
JOHN DEERE HYDRAU (30 GAL)

RECOMMENDATION

Resample at the next service interval to monitor. (Customer Sample Comment: A35771)

| Test | UOM | Method | Limit/Abn | Current | History1 | History2 |
|----------------|-----|-------------|-----------|-------------|----------|----------|
| Sample Number | | Client Info | | WE0007701 | --- | --- |
| Sample Date | | Client Info | | 11 Jul 2024 | --- | --- |
| Machine Age | hrs | Client Info | | 574 | --- | --- |
| Oil Age | hrs | Client Info | | 574 | --- | --- |
| Filter Age | hrs | Client Info | | 574 | --- | --- |
| Oil Changed | | Client Info | | Not Chngd | --- | --- |
| Filter Changed | | Client Info | | Not Chngd | --- | --- |
| Sample Status | | | | NORMAL | --- | --- |

WEAR

All component wear rates are normal.

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

CONTAMINATION

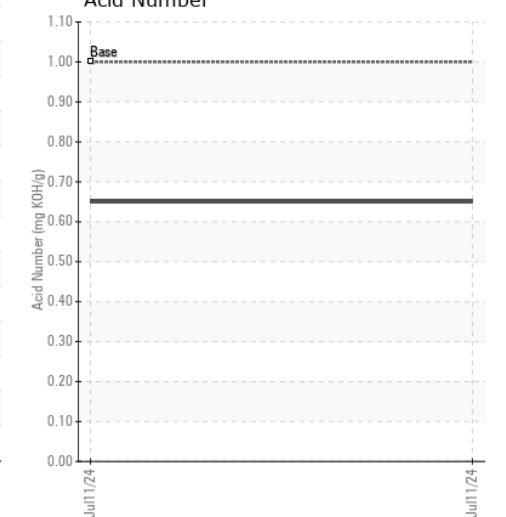
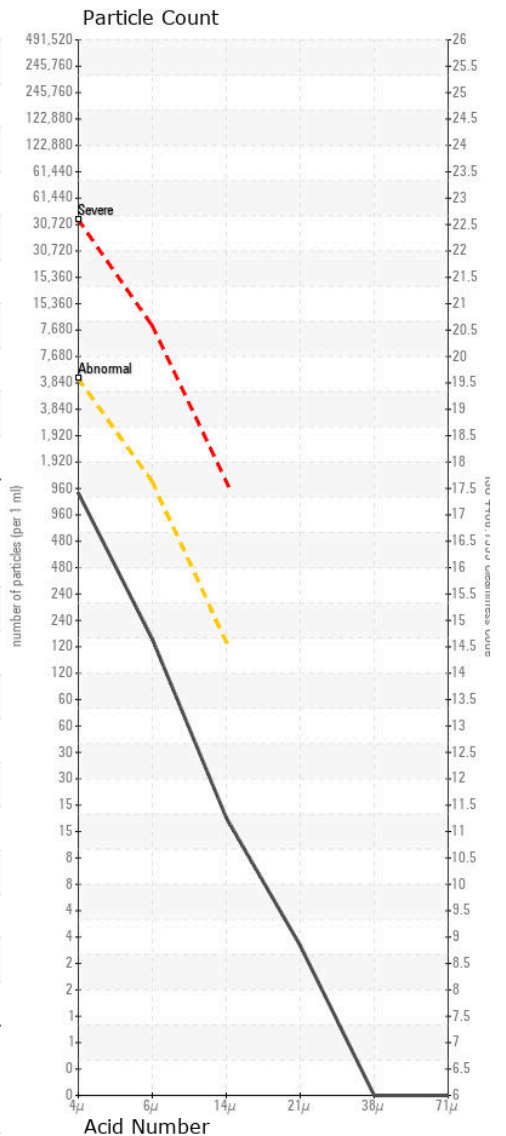
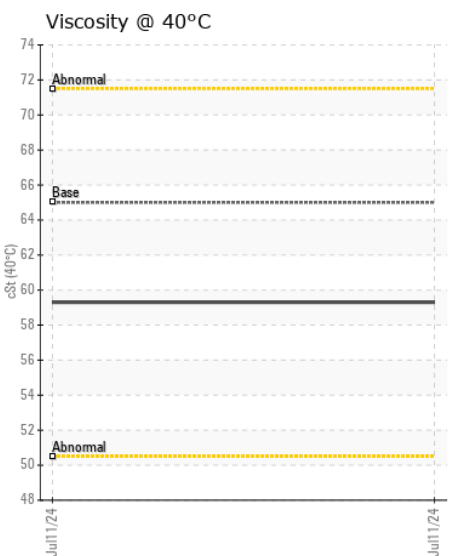
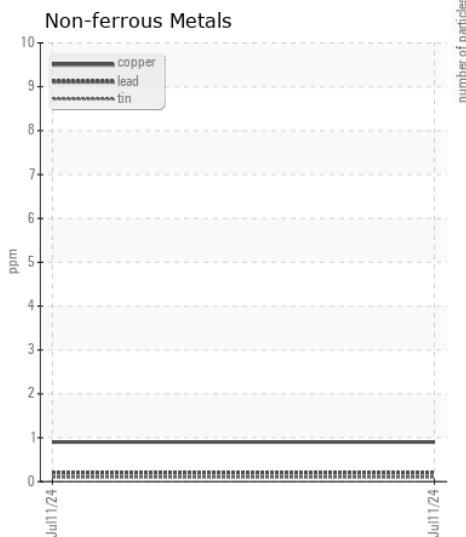
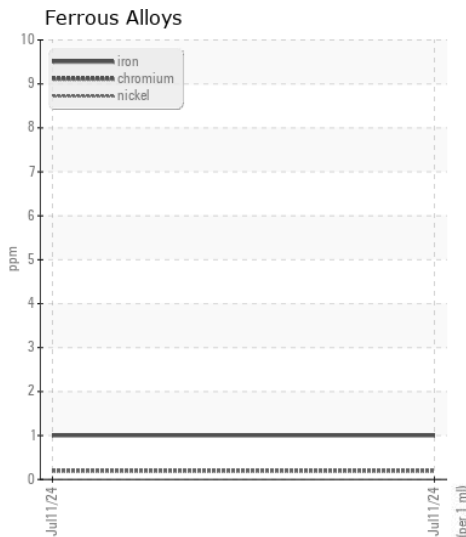
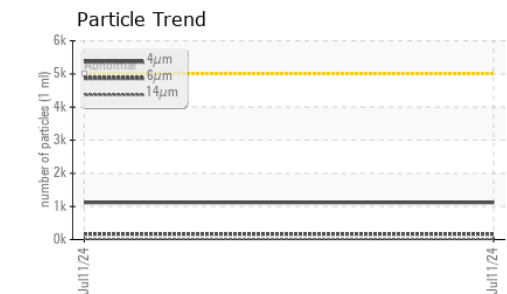
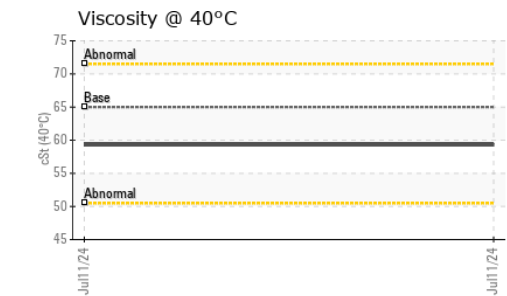
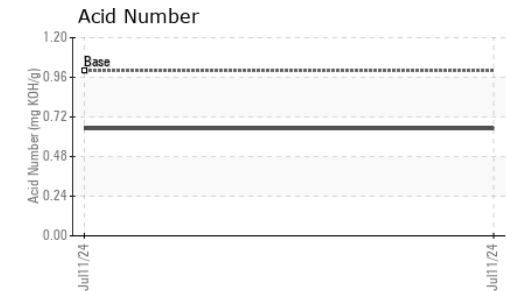
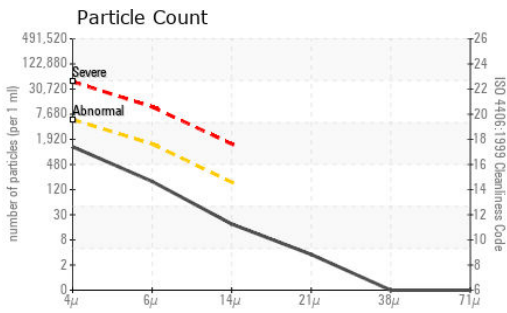
There is no indication of any contamination in the oil. The amount and size of particulates present in the system are acceptable.

| | | | | | | |
|------------------|--------|--------------|-----------|----------|-----|-----|
| Silicon | ppm | ASTM D5185m | >20 | 2 | --- | --- |
| Potassium | ppm | ASTM D5185m | >20 | 3 | --- | --- |
| Water | | WC Method | >0.1 | NEG | --- | --- |
| Particles >4µm | | ASTM D7647 | >5000 | 1119 | --- | --- |
| Particles >6µm | | ASTM D7647 | >1300 | 166 | --- | --- |
| Particles >14µm | | ASTM D7647 | >160 | 16 | --- | --- |
| Particles >21µm | | ASTM D7647 | >40 | 3 | --- | --- |
| Particles >38µm | | ASTM D7647 | >10 | 0 | --- | --- |
| Particles >71µm | | ASTM D7647 | >3 | 0 | --- | --- |
| Oil Cleanliness | | ISO 4406 (c) | >19/17/14 | 17/15/11 | --- | --- |
| Silt | scalar | *Visual | NONE | NONE | --- | --- |
| Debris | scalar | *Visual | NONE | NONE | --- | --- |
| Sand/Dirt | scalar | *Visual | NONE | NONE | --- | --- |
| Appearance | scalar | *Visual | NORML | NORML | --- | --- |
| Odor | scalar | *Visual | NORML | NORML | --- | --- |
| Emulsified Water | scalar | *Visual | >0.1 | 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 | --- | --- |
| Boron | ppm | ASTM D5185m | | 32 | --- | --- |
| Barium | ppm | ASTM D5185m | | 0 | --- | --- |
| Molybdenum | ppm | ASTM D5185m | | 2 | --- | --- |
| Manganese | ppm | ASTM D5185m | | <1 | --- | --- |
| Magnesium | ppm | ASTM D5185m | | 31 | --- | --- |
| Calcium | ppm | ASTM D5185m | 87 | 1095 | --- | --- |
| Phosphorus | ppm | ASTM D5185m | 727 | 716 | --- | --- |
| Zinc | ppm | ASTM D5185m | 900 | 936 | --- | --- |
| Sulfur | ppm | ASTM D5185m | 1500 | 1825 | --- | --- |
| Acid Number (AN) | mg KOH/g | ASTM D8045 | 1.0 | 0.65 | --- | --- |
| Visc @ 40°C | cSt | ASTM D445 | 65 | 59.3 | --- | --- |



Certificate L2367

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

Sample No. : WE0007701

Lab Number : 06235827

Unique Number : 11124661

Test Package : CONST (Additional Tests: PQ)

Received : 15 Jul 2024

Tested : 16 Jul 2024

Diagnosed : 16 Jul 2024 - Don Baldrige

WARRIOR TRACTOR AND EQUIPMENT - HUNTSVILLE

25135 ONE AVIATION WAY SW

MADISON, AL

US 35756

Contact: BOBBY LUCKY

wariorparts033@gmail.com

T:

F:

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)