



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

Machine Id
JOHN DEERE 544 P 1DW544PAVNLZ15187
 Component
Front Differential
 Fluid
JOHN DEERE HY-GARD HYD/TRANS (16 QTS)

RECOMMENDATION

Resample at the next service interval to monitor.

| Test | UOM | Method | Limit/Abn | Current | History1 | History2 |
|----------------|-----|-------------|-----------|--------------------|-------------|-------------|
| Sample Number | | Client Info | | JR0213980 | JR0197631 | JR0176618 |
| Sample Date | | Client Info | | 13 Jun 2024 | 15 Jan 2024 | 26 Aug 2023 |
| Machine Age | hrs | Client Info | | 1945 | 1458 | 1005 |
| Oil Age | hrs | Client Info | | 981 | 947 | 511 |
| Filter Age | hrs | Client Info | | 0 | 0 | 0 |
| Oil Changed | | Client Info | | Changed | Not Changd | Not Changd |
| Filter Changed | | Client Info | | N/A | Not Changd | N/A |
| Sample Status | | | | NORMAL | NORMAL | NORMAL |

WEAR

All component wear rates are normal.

| PQ | UOM | Method | Limit/Abn | Current | History1 | History2 |
|--------------|--------|-------------|-----------|--------------|----------|----------|
| PQ | | ASTM D8184 | | 101 | 158 | 197 |
| Iron | ppm | ASTM D5185m | >500 | 286 | 273 | 313 |
| Chromium | ppm | ASTM D5185m | >10 | 2 | 2 | 2 |
| Nickel | ppm | ASTM D5185m | >10 | 2 | 2 | 3 |
| Titanium | ppm | ASTM D5185m | | <1 | <1 | <1 |
| Silver | ppm | ASTM D5185m | | 0 | 0 | 0 |
| Aluminum | ppm | ASTM D5185m | >25 | 2 | 2 | 3 |
| Lead | ppm | ASTM D5185m | >25 | 16 | 14 | 14 |
| Copper | ppm | ASTM D5185m | >100 | 32 | 28 | 30 |
| Tin | ppm | ASTM D5185m | >10 | 2 | 1 | 2 |
| Vanadium | ppm | ASTM D5185m | | 0 | 0 | 0 |
| White Metal | scalar | *Visual | NONE | NONE | NONE | NONE |
| Yellow Metal | scalar | *Visual | NONE | NONE | NONE | NONE |

CONTAMINATION

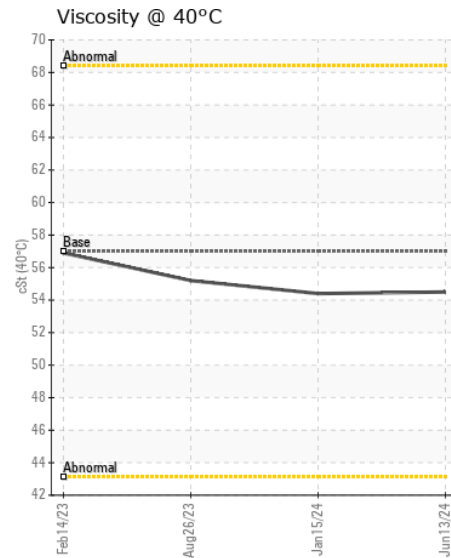
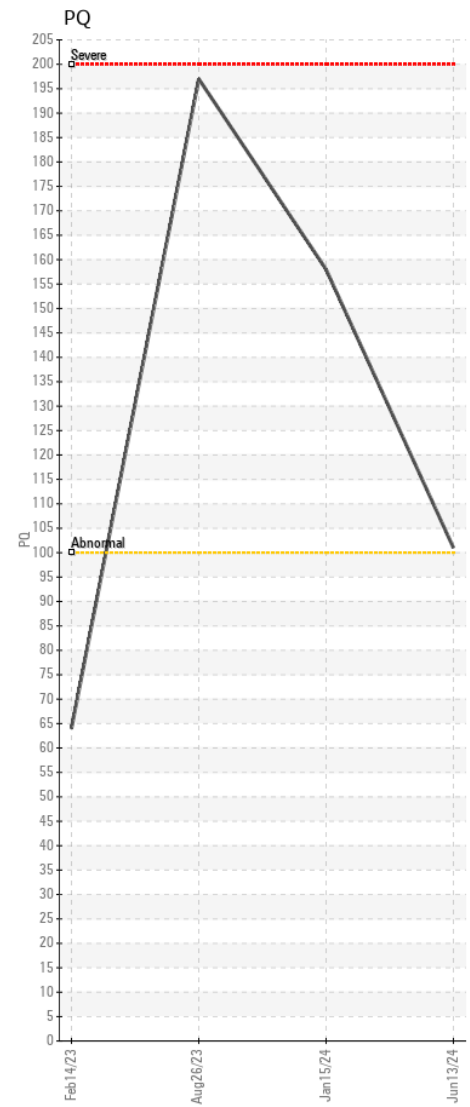
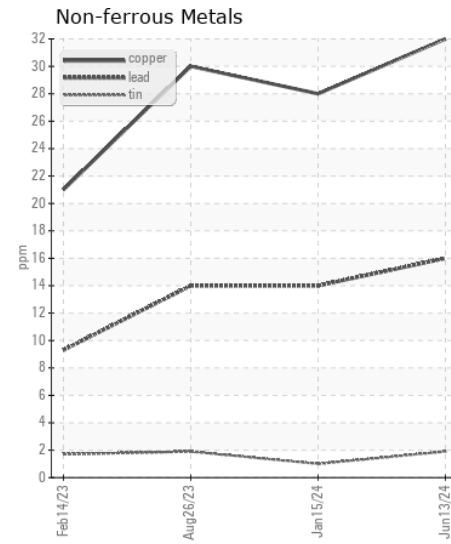
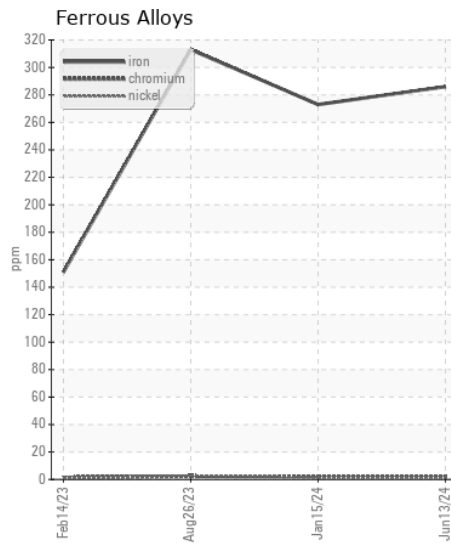
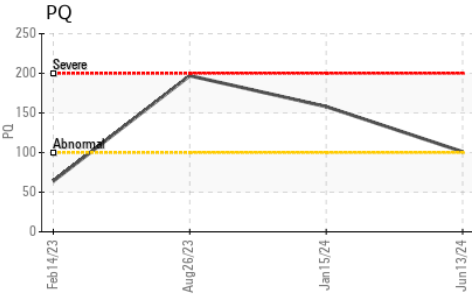
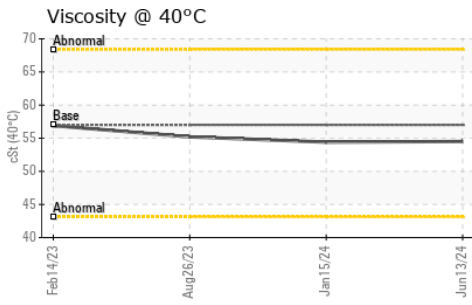
There is no indication of any contamination in the oil.

| | | | | | | |
|------------------|--------|-------------|-------|--------------|-------|-------|
| Silicon | ppm | ASTM D5185m | >75 | 19 | 18 | 23 |
| Potassium | ppm | ASTM D5185m | >20 | 3 | 1 | 3 |
| Water | | WC Method | >.2 | NEG | NEG | NEG |
| Silt | scalar | *Visual | NONE | NONE | NONE | LIGHT |
| Debris | scalar | *Visual | NONE | LIGHT | 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 | >.2 | NEG | NEG | NEG |

FLUID CONDITION

The condition of the oil is acceptable for the time in service.

| | | | | | | |
|-------------|-----|-------------|------|-------------|------|------|
| Sodium | ppm | ASTM D5185m | | 8 | 7 | <1 |
| Boron | ppm | ASTM D5185m | 6 | 7 | 2 | 7 |
| Barium | ppm | ASTM D5185m | 0 | 4 | 4 | 7 |
| Molybdenum | ppm | ASTM D5185m | 0 | 0 | <1 | <1 |
| Manganese | ppm | ASTM D5185m | | 10 | 10 | 13 |
| Magnesium | ppm | ASTM D5185m | 145 | 97 | 96 | 98 |
| Calcium | ppm | ASTM D5185m | 3570 | 3409 | 3385 | 3654 |
| Phosphorus | ppm | ASTM D5185m | 1290 | 1044 | 1071 | 1087 |
| Zinc | ppm | ASTM D5185m | 1640 | 1228 | 1225 | 1279 |
| Sulfur | ppm | ASTM D5185m | | 4526 | 3612 | 4473 |
| Visc @ 40°C | cSt | ASTM D445 | 57.0 | 54.5 | 54.4 | 55.2 |



Certificate L2367

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

Sample No. : JR0213980

Lab Number : 06212041

Unique Number : 11084905

Test Package : CONST (Additional Tests: PQ)

Received : 17 Jun 2024

Tested : 18 Jun 2024

Diagnosed : 18 Jun 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 - GREENVILLE

3604 HIGHWAY 264 E

GREENVILLE, NC

US 27834-5800

Contact: GREENVILLE SHOP

christopher.martin@jamesriverequipment.com

T:

F: