



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



Machine Id
JOHN DEERE 624K 1DW624KZJFF670993

Component
Front Differential

Fluid
JOHN DEERE HY-GARD HYD/TRANS (23 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 | | JR0206889 | JR0185322 | JR0160967 |
| Sample Date | | Client Info | | 10 May 2024 | 15 Sep 2023 | 23 Feb 2023 |
| Machine Age | hrs | Client Info | | 4393 | 4086 | 3640 |
| Oil Age | hrs | Client Info | | 0 | 4086 | 3640 |
| Filter Age | hrs | Client Info | | 0 | 446 | 635 |
| Oil Changed | | Client Info | | Not Changed | Not Changed | Not Changed |
| Filter Changed | | Client Info | | Not Changed | Not Changed | Changed |
| Sample Status | | | | ABNORMAL | ABNORMAL | ABNORMAL |

WEAR

The lead level is abnormal. All other component wear rates are normal.

| PQ | UOM | Method | Limit/Abn | Current | History1 | History2 |
|--------------|--------|-------------|-----------|--------------|----------|----------|
| PQ | | ASTM D8184 | | 26 | 25 | 23 |
| Iron | ppm | ASTM D5185m | >500 | 116 | 210 | 110 |
| Chromium | ppm | ASTM D5185m | >10 | <1 | <1 | <1 |
| Nickel | ppm | ASTM D5185m | >10 | <1 | <1 | <1 |
| Titanium | ppm | ASTM D5185m | | <1 | <1 | <1 |
| Silver | ppm | ASTM D5185m | | 0 | 0 | <1 |
| Aluminum | ppm | ASTM D5185m | >25 | 2 | <1 | 1 |
| Lead | ppm | ASTM D5185m | >25 | ▲ 145 | ▲ 49 | ▲ 135 |
| Copper | ppm | ASTM D5185m | >100 | 36 | 77 | 31 |
| Tin | ppm | ASTM D5185m | >10 | 5 | 7 | 4 |
| Vanadium | ppm | ASTM D5185m | | <1 | <1 | 0 |
| White Metal | scalar | *Visual | NONE | NONE | NONE | NONE |
| Yellow Metal | scalar | *Visual | NONE | NONE | NONE | NONE |

CONTAMINATION

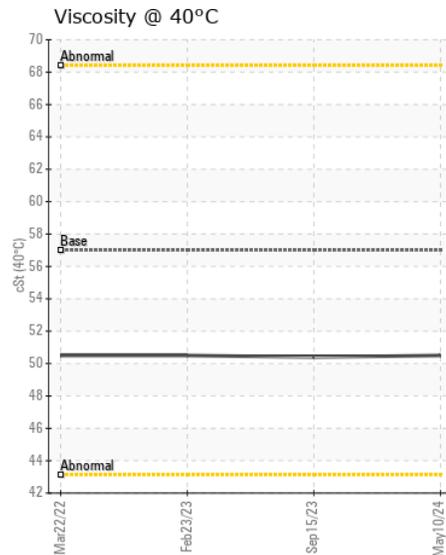
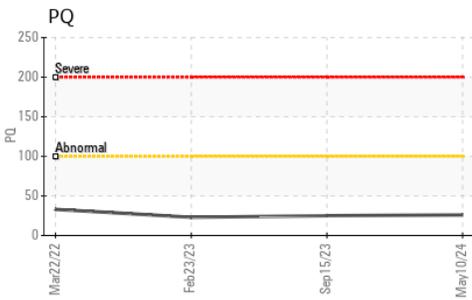
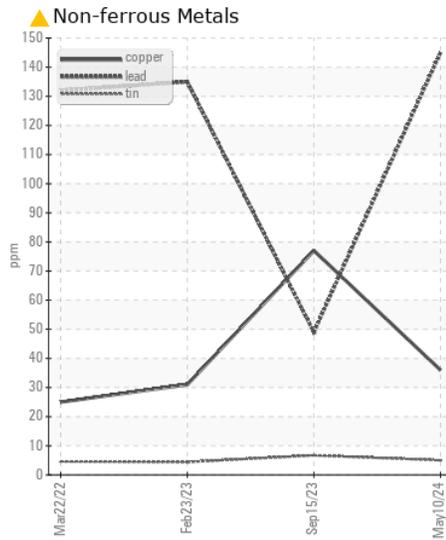
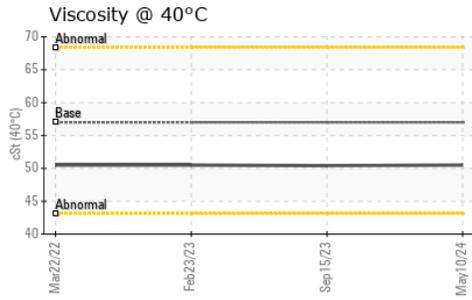
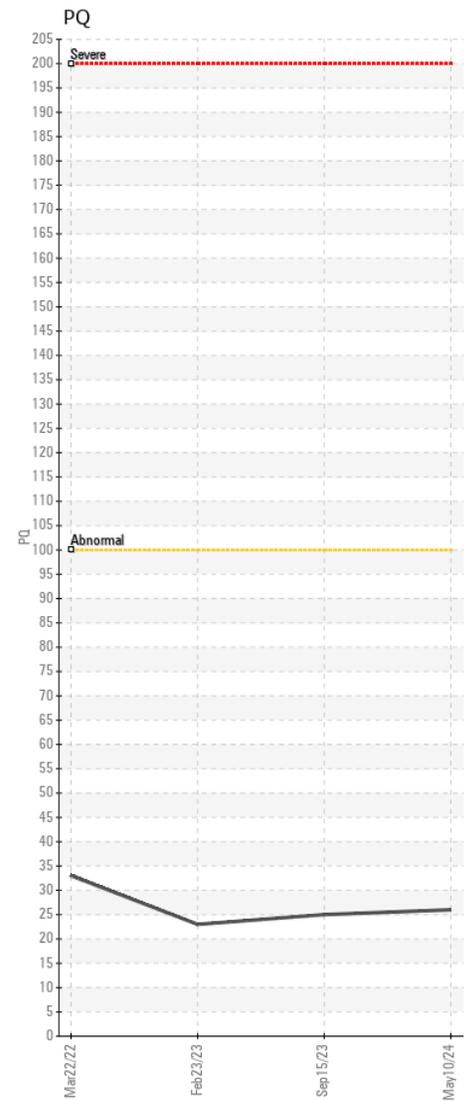
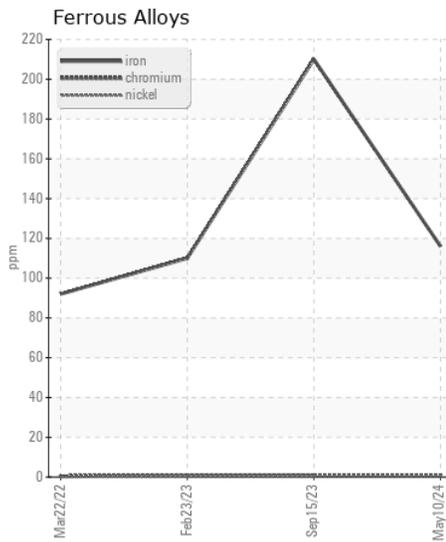
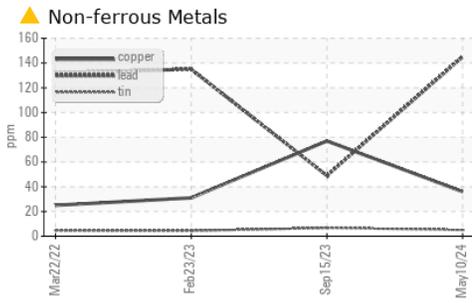
There is no indication of any contamination in the oil.

| Test | UOM | Method | Limit/Abn | Current | History1 | History2 |
|------------------|--------|-------------|-----------|--------------|----------|----------|
| Silicon | ppm | ASTM D5185m | >75 | 17 | 8 | 8 |
| Potassium | ppm | ASTM D5185m | >20 | 4 | 2 | 2 |
| Water | | WC Method | >.2 | NEG | NEG | NEG |
| 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 | >.2 | NEG | NEG | NEG |

FLUID CONDITION

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

| Test | UOM | Method | Limit/Abn | Current | History1 | History2 |
|-------------|-----|-------------|-----------|--------------|----------|----------|
| Sodium | ppm | ASTM D5185m | | 4 | 8 | 7 |
| Boron | ppm | ASTM D5185m | 6 | <1 | 3 | 3 |
| Barium | ppm | ASTM D5185m | 0 | 6 | 1 | 0 |
| Molybdenum | ppm | ASTM D5185m | 0 | <1 | <1 | 2 |
| Manganese | ppm | ASTM D5185m | | 2 | 5 | 2 |
| Magnesium | ppm | ASTM D5185m | 145 | 69 | 94 | 72 |
| Calcium | ppm | ASTM D5185m | 3570 | 2857 | 3230 | 2893 |
| Phosphorus | ppm | ASTM D5185m | 1290 | 1111 | 1026 | 1031 |
| Zinc | ppm | ASTM D5185m | 1640 | 1144 | 1229 | 1178 |
| Sulfur | ppm | ASTM D5185m | | 3834 | 4461 | 3685 |
| Visc @ 40°C | cSt | ASTM D445 | 57.0 | 50.5 | 50.4 | 50.5 |



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : JR0206889 **Received** : 13 May 2024
Lab Number : 06177423 **Tested** : 14 May 2024
Unique Number : 11023476 **Diagnosed** : 15 May 2024 - Don Baldrige
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)

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