



OIL ANALYSIS REPORT

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

Area

[125295]

Machine Id

JOHN DEERE 824L 1DW824LXVML712912

Component

Rear Differential

Fluid

JOHN DEERE HY-GARD HYD/TRANS (--- QTS)

RECOMMENDATION

The oil change at the time of sampling has been noted. 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 | | WE0006450 | WE0004541 | WE0004118 |
| Sample Date | | Client Info | | 05 Feb 2024 | 14 Jul 2023 | 27 Apr 2023 |
| Machine Age | hrs | Client Info | | 4097 | 2991 | 2504 |
| Oil Age | hrs | Client Info | | 0 | 0 | 0 |
| Filter Age | hrs | Client Info | | 0 | 0 | 0 |
| Oil Changed | | Client Info | | Changed | N/A | N/A |
| Filter Changed | | Client Info | | Changed | Changed | N/A |
| Sample Status | | | | ABNORMAL | NORMAL | NORMAL |

WEAR

Bearing and/or bushing wear is indicated. All other component wear rates are normal.

| | | | | | | |
|--------------|--------|-------------|------|--------------|------|------|
| PQ | | ASTM D8184 | | 12 | 11 | 14 |
| Iron | ppm | ASTM D5185m | >500 | 55 | 25 | 21 |
| Chromium | ppm | ASTM D5185m | >10 | <1 | 0 | <1 |
| Nickel | ppm | ASTM D5185m | >10 | 0 | 0 | 0 |
| Titanium | ppm | ASTM D5185m | | 0 | <1 | 0 |
| Silver | ppm | ASTM D5185m | | 0 | 0 | <1 |
| Aluminum | ppm | ASTM D5185m | >25 | 2 | 0 | <1 |
| Lead | ppm | ASTM D5185m | >25 | 18 | 6 | 2 |
| Copper | ppm | ASTM D5185m | >100 | ▲ 139 | 47 | 29 |
| Tin | ppm | ASTM D5185m | >10 | <1 | 0 | 0 |
| Vanadium | ppm | ASTM D5185m | | 0 | <1 | 0 |
| White Metal | scalar | *Visual | NONE | NONE | NONE | NONE |
| Yellow Metal | scalar | *Visual | NONE | NONE | NONE | NONE |

CONTAMINATION

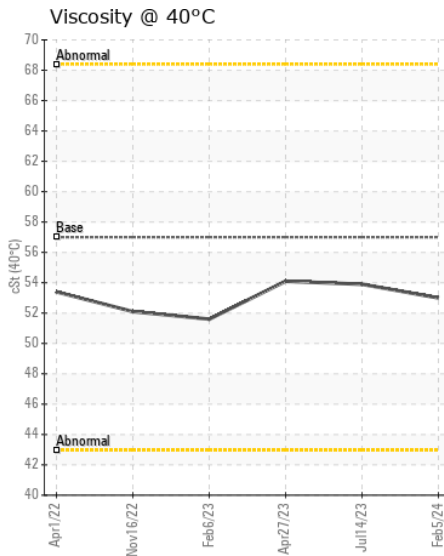
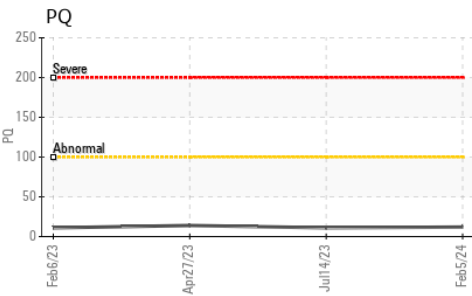
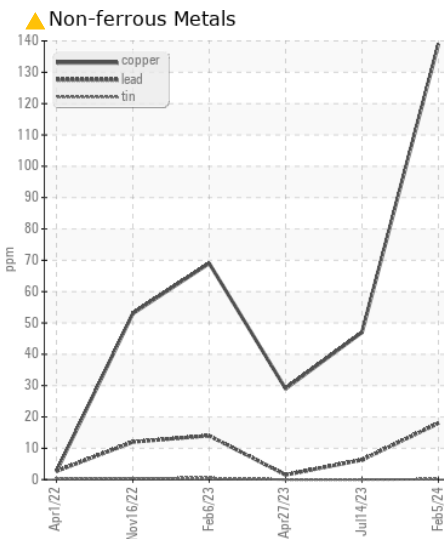
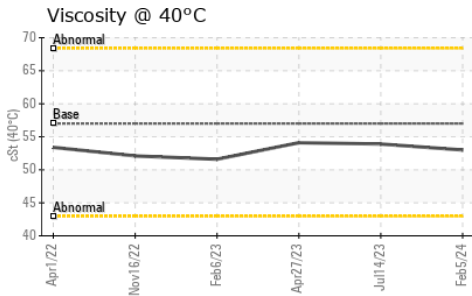
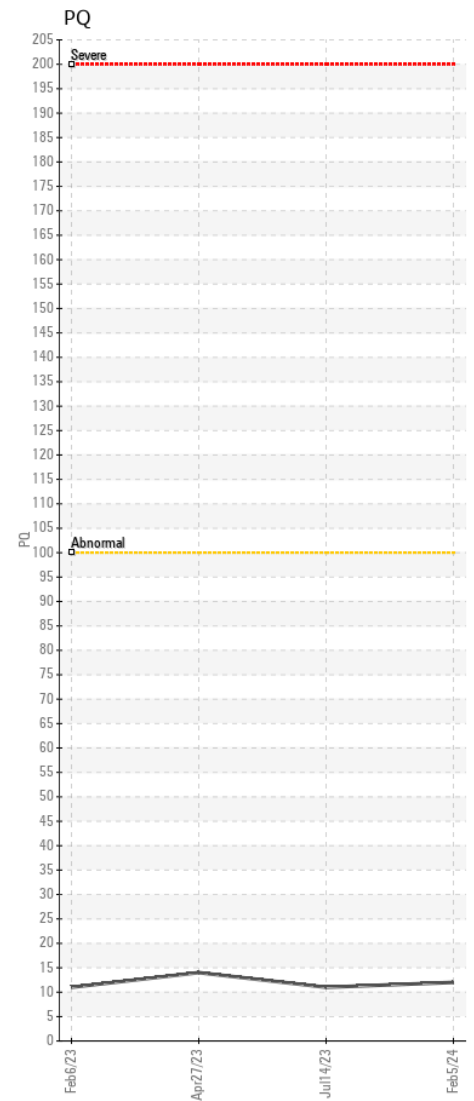
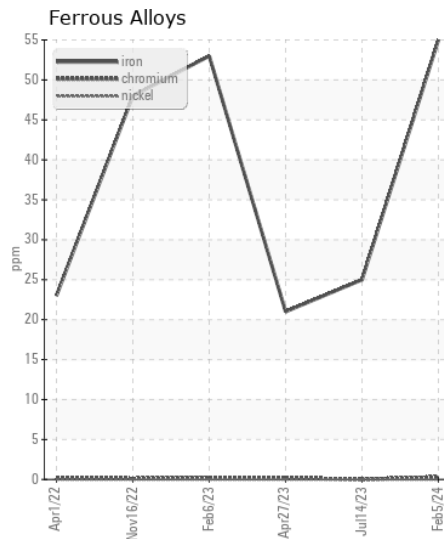
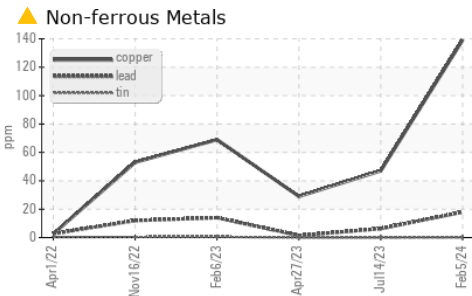
There is no indication of any contamination in the oil.

| | | | | | | |
|------------------|--------|-------------|-------|--------------|-------|-------|
| Silicon | ppm | ASTM D5185m | >75 | 7 | 4 | 3 |
| Potassium | ppm | ASTM D5185m | >20 | 2 | 0 | 0 |
| Water | | WC Method | >.2 | NEG | NEG | NEG |
| Silt | scalar | *Visual | NONE | NONE | NONE | NONE |
| 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 | | 3 | 3 | 2 |
| Boron | ppm | ASTM D5185m | 6 | 2 | 0 | <1 |
| Barium | ppm | ASTM D5185m | 0 | 0 | 0 | 0 |
| Molybdenum | ppm | ASTM D5185m | 0 | <1 | <1 | 1 |
| Manganese | ppm | ASTM D5185m | | <1 | <1 | 1 |
| Magnesium | ppm | ASTM D5185m | 145 | 151 | 93 | 97 |
| Calcium | ppm | ASTM D5185m | 3570 | 4591 | 3467 | 3453 |
| Phosphorus | ppm | ASTM D5185m | 1290 | 1663 | 1007 | 1021 |
| Zinc | ppm | ASTM D5185m | 1640 | 1793 | 1190 | 1229 |
| Sulfur | ppm | ASTM D5185m | | 6248 | 4202 | 4165 |
| Visc @ 40°C | cSt | ASTM D445 | 57.0 | 53.0 | 53.9 | 54.1 |



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WE0006450 **Received** : 08 Feb 2024
Lab Number : 06083901 **Tested** : 09 Feb 2024
Unique Number : 10871346 **Diagnosed** : 11 Feb 2024 - Don Baldrige
Test Package : CONST (Additional Tests: PQ)

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Certificate L2367
 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)