



OIL ANALYSIS REPORT

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

Area  
**Store 1 - Cowen [141880]**  
 Machine Id  
**JOHN DEERE 624P 1DW624PACMLZ13219**  
 Component  
**Rear Axle**  
 Fluid  
**JOHN DEERE HY-GARD HYD/TRANS (4 GAL)**

**RECOMMENDATION**

Resample at the next service interval to monitor.

| Test           | UOM | Method      | Limit/Abn | Current     | History1    | History2    |
|----------------|-----|-------------|-----------|-------------|-------------|-------------|
| Sample Number  |     | Client Info |           | LEC0041070  | LEC0036931  | LEC0036986  |
| Sample Date    |     | Client Info |           | 04 Aug 2023 | 20 Mar 2023 | 06 Jan 2023 |
| Machine Age    | hrs | Client Info |           | 2507        | 2019        | 1560        |
| Oil Age        | hrs | Client Info |           | 488         | 2019        | 1560        |
| Filter Age     | hrs | Client Info |           | 488         | 1007        | 0           |
| Oil Changed    |     | Client Info |           | Not Changd  | Changed     | Not Changd  |
| Filter Changed |     | Client Info |           | Not Changd  | Changed     | N/A         |
| Sample Status  |     |             |           | NORMAL      | ABNORMAL    | ABNORMAL    |

**WEAR**

All component wear rates are normal.

|              |        |             |      |      |       |       |
|--------------|--------|-------------|------|------|-------|-------|
| PQ           |        | ASTM D8184  |      | 16   | 11    | 8     |
| Iron         | ppm    | ASTM D5185m | >750 | 34   | 85    | 81    |
| Chromium     | ppm    | ASTM D5185m | >11  | <1   | <1    | <1    |
| Nickel       | ppm    | ASTM D5185m | >10  | 0    | <1    | <1    |
| Titanium     | ppm    | ASTM D5185m |      | <1   | <1    | 0     |
| Silver       | ppm    | ASTM D5185m |      | 0    | <1    | 0     |
| Aluminum     | ppm    | ASTM D5185m | >21  | <1   | <1    | 1     |
| Lead         | ppm    | ASTM D5185m | >49  | 34   | ▲ 82  | ▲ 81  |
| Copper       | ppm    | ASTM D5185m | >101 | 53   | ▲ 114 | ▲ 117 |
| Tin          | ppm    | ASTM D5185m | >10  | 0    | 1     | <1    |
| Vanadium     | ppm    | ASTM D5185m |      | 0    | 0     | 0     |
| White Metal  | scalar | *Visual     | NONE | NONE | NONE  | NONE  |
| Yellow Metal | scalar | *Visual     | NONE | NONE | NONE  | NONE  |

**CONTAMINATION**

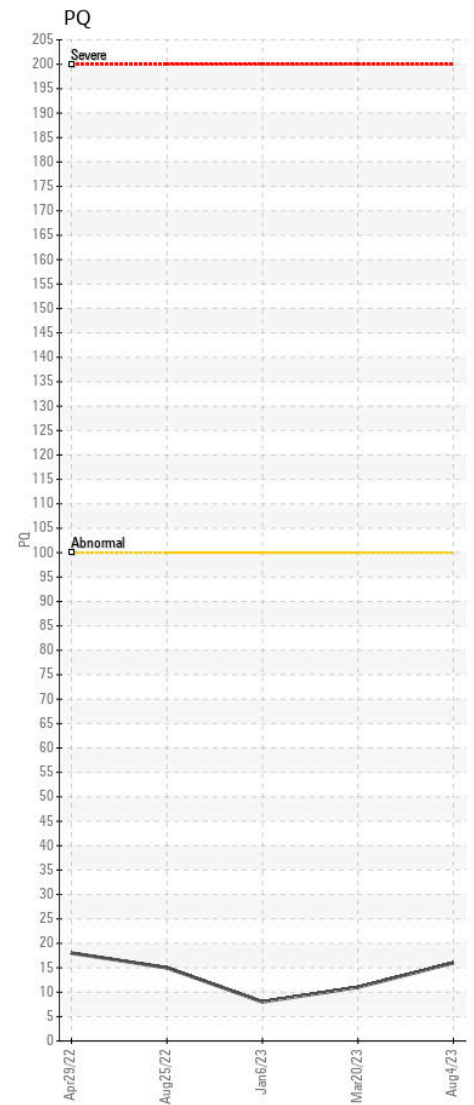
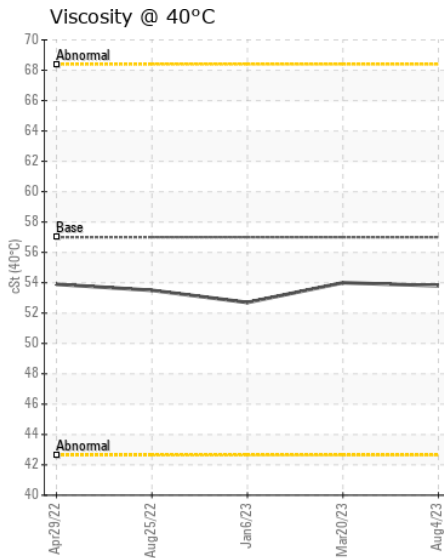
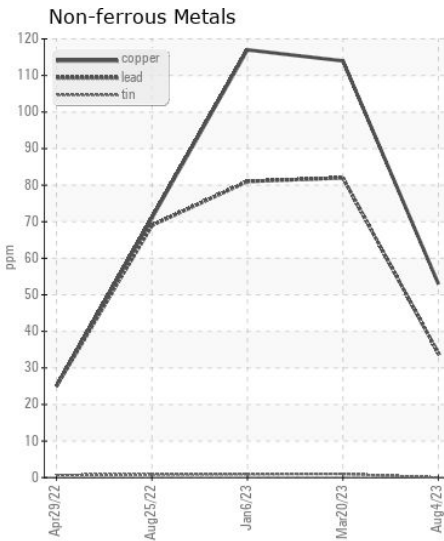
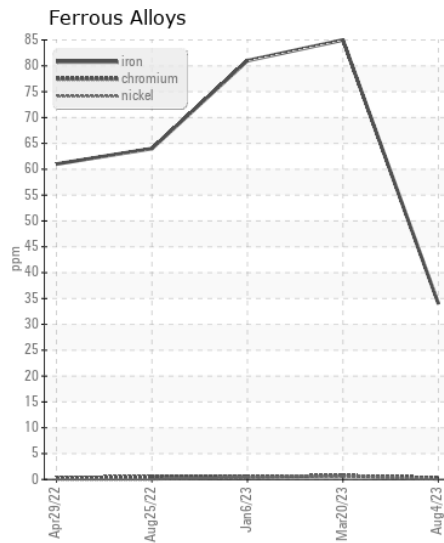
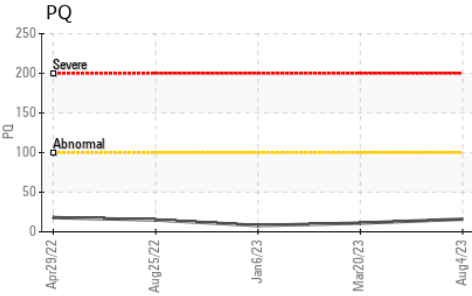
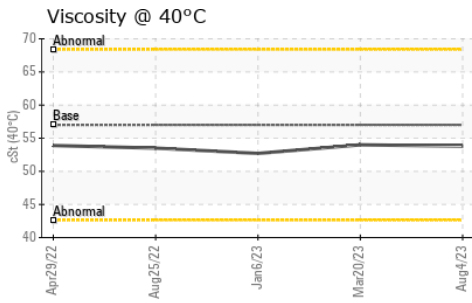
There is no indication of any contamination in the oil.

|                  |        |             |       |       |       |       |
|------------------|--------|-------------|-------|-------|-------|-------|
| Silicon          | ppm    | ASTM D5185m | >31   | 5     | 7     | 6     |
| Potassium        | ppm    | ASTM D5185m | >20   | 0     | <1    | 0     |
| Water            |        | WC Method   | >0.1  | 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     | >0.1  | NEG   | NEG   | NEG   |

**FLUID CONDITION**

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

|             |     |             |      |      |      |      |
|-------------|-----|-------------|------|------|------|------|
| Sodium      | ppm | ASTM D5185m | >51  | 3    | 6    | 7    |
| Boron       | ppm | ASTM D5185m | 6    | <1   | 4    | 6    |
| Barium      | ppm | ASTM D5185m | 0    | 0    | 0    | 0    |
| Molybdenum  | ppm | ASTM D5185m | 0    | <1   | 4    | 3    |
| Manganese   | ppm | ASTM D5185m |      | <1   | 3    | 2    |
| Magnesium   | ppm | ASTM D5185m | 145  | 98   | 95   | 90   |
| Calcium     | ppm | ASTM D5185m | 3570 | 3286 | 3121 | 3248 |
| Phosphorus  | ppm | ASTM D5185m | 1290 | 978  | 953  | 963  |
| Zinc        | ppm | ASTM D5185m | 1640 | 1194 | 1154 | 1125 |
| Sulfur      | ppm | ASTM D5185m |      | 4229 | 3570 | 4081 |
| Visc @ 40°C | cSt | ASTM D445   | 57.0 | 53.8 | 54.0 | 52.7 |



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : LEC0041070 **Received** : 08 Aug 2023  
**Lab Number** : 05918856 **Tested** : 09 Aug 2023  
**Unique Number** : 10590770 **Diagnosed** : 09 Aug 2023 - Sean Felton  
**Test Package** : CONST ( Additional Tests: PQ )

**LESLIE EQUIPMENT COMPANY**  
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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)