



OIL ANALYSIS REPORT

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



Area
Store 1 - Cowen [143801]
Machine Id
JOHN DEERE 210G 1FF210GXCF526717 (S/N 003173)
Component
Swing Drive
Fluid
JOHN DEERE HY-GARD HYD/TRANS (2 GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

| Test | UOM | Method | Limit/Abn | Current | History1 | History2 |
|----------------|-----|-------------|-----------|--------------------|-------------|-------------|
| Sample Number | | Client Info | | LEC0044273 | LEC0036913 | LEC0036892 |
| Sample Date | | Client Info | | 05 Oct 2023 | 09 May 2023 | 01 Feb 2023 |
| Machine Age | hrs | Client Info | | 8187 | 7618 | 7062 |
| Oil Age | hrs | Client Info | | 8187 | 7618 | 7062 |
| 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 | | ASTM D8184 | | 36 | 12 | 6 |
| Iron | ppm | ASTM D5185m | >151 | 95 | <1 | 2 |
| Chromium | ppm | ASTM D5185m | >11 | 1 | 0 | 0 |
| Nickel | ppm | ASTM D5185m | >10 | 0 | 0 | 0 |
| Titanium | ppm | ASTM D5185m | | <1 | 0 | 0 |
| Silver | ppm | ASTM D5185m | | 0 | 0 | 0 |
| Aluminum | ppm | ASTM D5185m | >21 | 0 | 3 | 0 |
| Lead | ppm | ASTM D5185m | >51 | 0 | 0 | 0 |
| Copper | ppm | ASTM D5185m | >51 | <1 | 0 | 0 |
| Tin | ppm | ASTM D5185m | >10 | 0 | 0 | 0 |
| Vanadium | ppm | ASTM D5185m | | 0 | 0 | 0 |
| White Metal | scalar | *Visual | NONE | LIGHT | NONE | NONE |
| Yellow Metal | scalar | *Visual | NONE | NONE | NONE | NONE |

CONTAMINATION

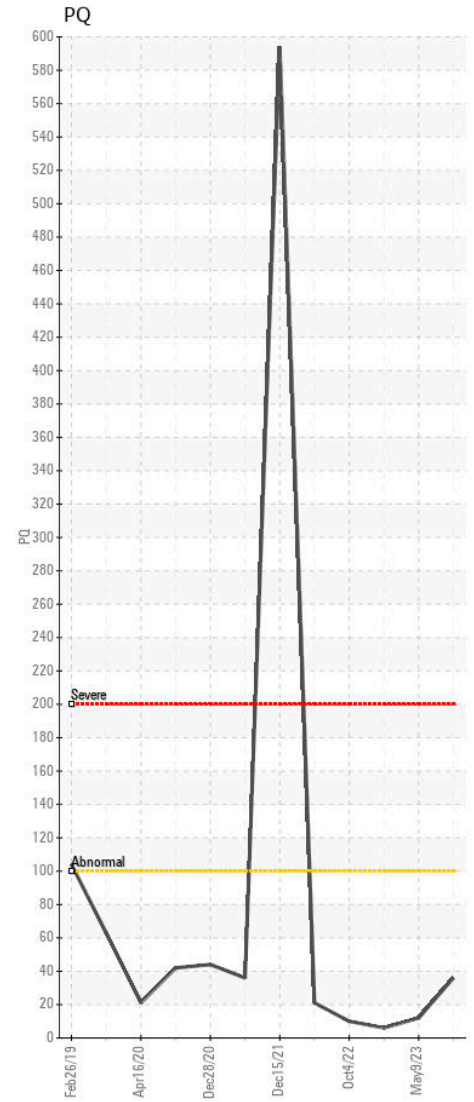
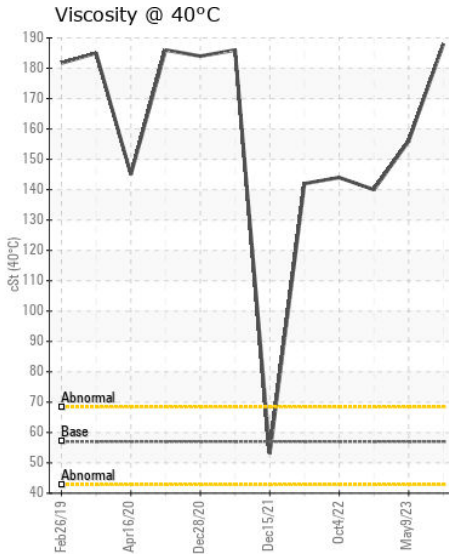
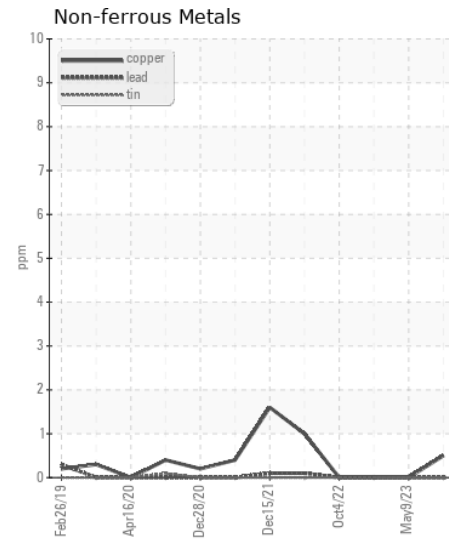
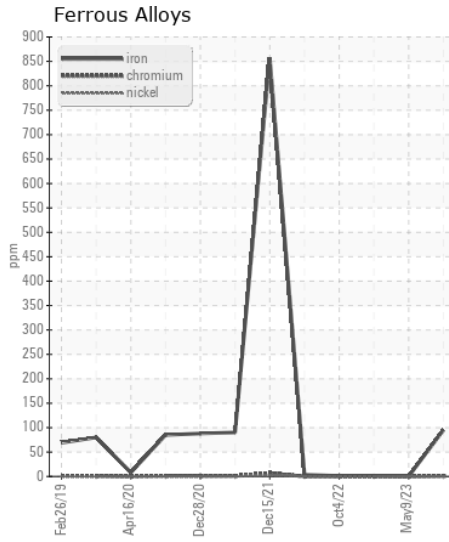
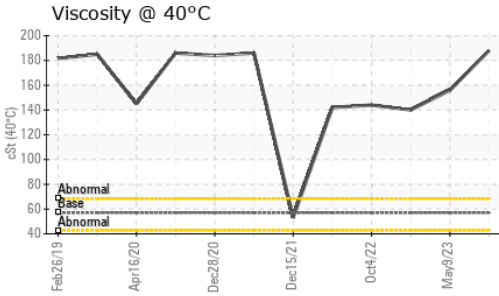
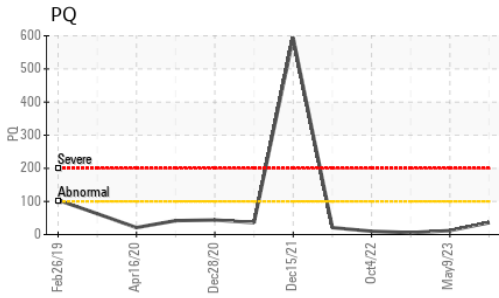
There is no indication of any contamination in the oil.

| | | | | | | |
|------------------|--------|-------------|-------|--------------|-------|-------|
| Silicon | ppm | ASTM D5185m | >31 | 24 | 0 | <1 |
| Potassium | ppm | ASTM D5185m | >20 | 2 | <1 | <1 |
| 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 | 0 | 0 | 0 |
| Boron | ppm | ASTM D5185m | 6 | 60 | 0 | 0 |
| Barium | ppm | ASTM D5185m | 0 | 6 | 0 | 0 |
| Molybdenum | ppm | ASTM D5185m | 0 | <1 | <1 | <1 |
| Manganese | ppm | ASTM D5185m | | 2 | <1 | 0 |
| Magnesium | ppm | ASTM D5185m | 145 | 2 | 2 | 3 |
| Calcium | ppm | ASTM D5185m | 3570 | 39 | 15 | 15 |
| Phosphorus | ppm | ASTM D5185m | 1290 | 475 | 287 | 282 |
| Zinc | ppm | ASTM D5185m | 1640 | 18 | 0 | 7 |
| Sulfur | ppm | ASTM D5185m | | 17377 | 21301 | 17723 |
| Visc @ 40°C | cSt | ASTM D445 | 57.0 | 188 | 156 | 140 |



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : LEC0044273 **Received** : 10 Oct 2023
Lab Number : 05974326 **Diagnosed** : 12 Oct 2023
Unique Number : 10686276 **Diagnostician** : Don Baldrige
Test Package : CONST (Additional Tests: PQ)

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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)