



OIL ANALYSIS REPORT

WEAR
CONTAMINATION
FLUID CONDITION

ATTENTION
ABNORMAL
NORMAL



Area
Store 8 - Pikeville
Machine Id
JOHN DEERE 210G 1FF210GXCNF530286
Component
Right Propel Gearbox
Fluid
JOHN DEERE HY-GARD HYD/TRANS (2 GAL)

RECOMMENDATION

We advise that you check all areas where dirt can enter the system. The oil change at the time of sampling has been noted. Resample at the next service interval to monitor.

| Test | UOM | Method | Limit/Abn | Current | History1 | History2 |
|----------------|-----|-------------|-----------|-------------|-------------|-------------|
| Sample Number | | Client Info | | LEC0049627 | LEC0042789 | LEC0041078 |
| Sample Date | | Client Info | | 10 Apr 2024 | 11 Oct 2023 | 13 Jul 2023 |
| Machine Age | hrs | Client Info | | 1919 | 1570 | 1083 |
| Oil Age | hrs | Client Info | | 349 | 487 | 502 |
| Filter Age | hrs | Client Info | | 0 | 0 | 0 |
| Oil Changed | | Client Info | | Changed | Changed | Changed |
| Filter Changed | | Client Info | | None | N/A | N/A |
| Sample Status | | | | ABNORMAL | ABNORMAL | ABNORMAL |

WEAR

All component wear rates are normal.

| | | | | | | |
|--------------|--------|-------------|-------|-------|------|-------|
| PQ | | ASTM D8184 | | 206 | 372 | 413 |
| Iron | ppm | ASTM D5185m | >1250 | 461 | 606 | 645 |
| Chromium | ppm | ASTM D5185m | >10 | 6 | 7 | 9 |
| Nickel | ppm | ASTM D5185m | >10 | 2 | 1 | <1 |
| Titanium | ppm | ASTM D5185m | | 2 | 2 | 3 |
| Silver | ppm | ASTM D5185m | | 0 | 0 | 0 |
| Aluminum | ppm | ASTM D5185m | | 34 | 25 | 53 |
| Lead | ppm | ASTM D5185m | | <1 | 0 | 0 |
| Copper | ppm | ASTM D5185m | | 1 | 1 | 2 |
| Tin | ppm | ASTM D5185m | | <1 | 0 | 0 |
| Vanadium | ppm | ASTM D5185m | | <1 | <1 | <1 |
| White Metal | scalar | *Visual | NONE | MODER | NONE | MODER |
| Yellow Metal | scalar | *Visual | NONE | NONE | NONE | NONE |

CONTAMINATION

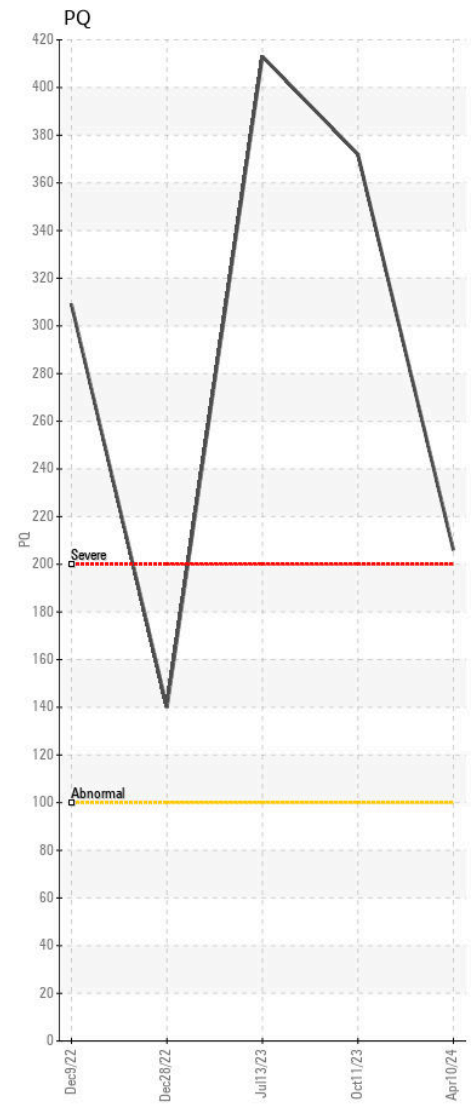
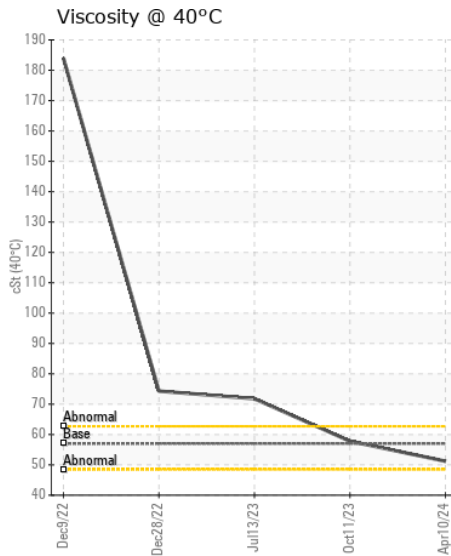
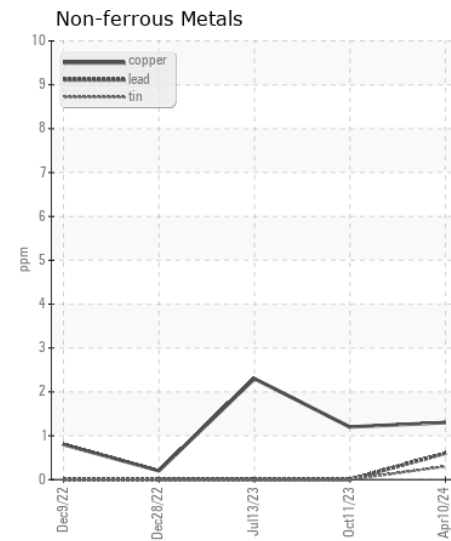
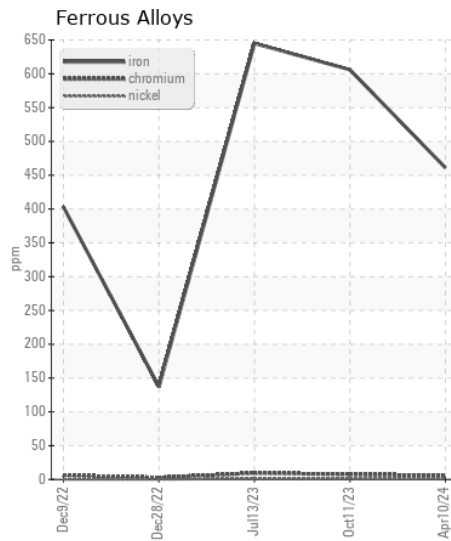
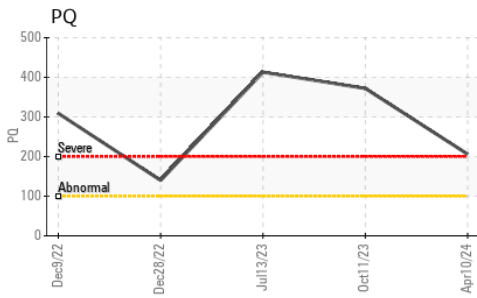
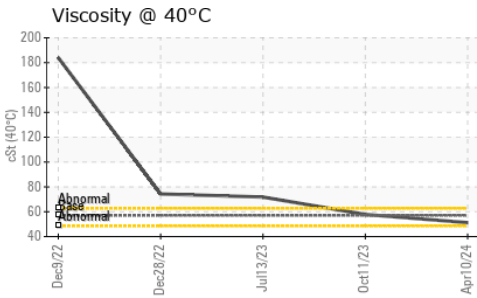
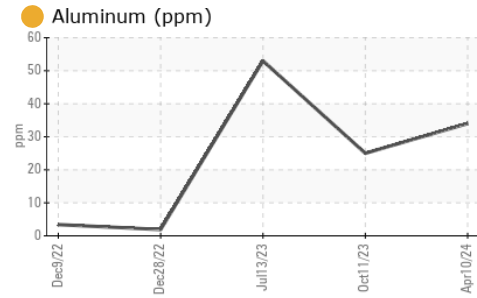
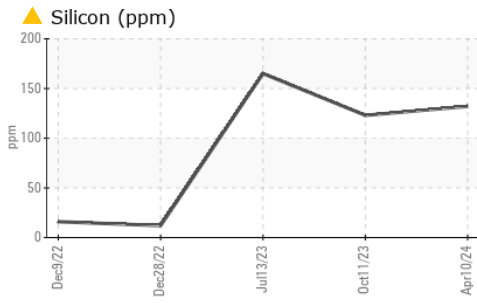
Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress.

| | | | | | | |
|------------------|--------|-------------|-------|-------|-------|-------|
| Silicon | ppm | ASTM D5185m | | 132 | 123 | 165 |
| Potassium | ppm | ASTM D5185m | >20 | 10 | 11 | 16 |
| Water | | WC Method | >0.2 | NEG | NEG | NEG |
| Silt | scalar | *Visual | NONE | MODER | 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 | >0.2 | NEG | NEG | NEG |

FLUID CONDITION

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

| | | | | | | |
|-------------|-----|-------------|------|------|------|------|
| Sodium | ppm | ASTM D5185m | | 3 | 0 | <1 |
| Boron | ppm | ASTM D5185m | 6 | 7 | 9 | 10 |
| Barium | ppm | ASTM D5185m | 0 | 2 | 0 | 1 |
| Molybdenum | ppm | ASTM D5185m | 0 | 7 | 1 | <1 |
| Manganese | ppm | ASTM D5185m | | 6 | 7 | 10 |
| Magnesium | ppm | ASTM D5185m | 145 | 117 | 97 | 83 |
| Calcium | ppm | ASTM D5185m | 3570 | 3537 | 3160 | 2787 |
| Phosphorus | ppm | ASTM D5185m | 1290 | 1017 | 1010 | 909 |
| Zinc | ppm | ASTM D5185m | 1640 | 1279 | 1243 | 994 |
| Sulfur | ppm | ASTM D5185m | | 3795 | 4848 | 8160 |
| Visc @ 40°C | cSt | ASTM D445 | 57.0 | 51.2 | 57.8 | 71.8 |



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : LEC0049627 **Received** : 15 Apr 2024
Lab Number : 06149673 **Tested** : 16 Apr 2024
Unique Number : 10979751 **Diagnosed** : 18 Apr 2024 - Jonathan Hester
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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