LESLIE EQUIPMENT CO.

# OIL ANALYSIS REPORT

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

Area
## Store 8 - Pikeville
Machine Id
## JOHN DEERE 210G 1FF210GXCNF530286
Component
## Hydraulic System
Fluid
## HITACHI HYDRAULIC SUPER EX 46HN (63 GAL)

## RECOMMENDATION

Resample at the next service interval to monitor.

## WEAR

All component wear rates are normal.

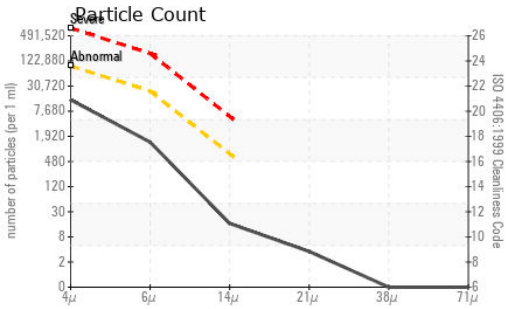
## CONTAMINATION

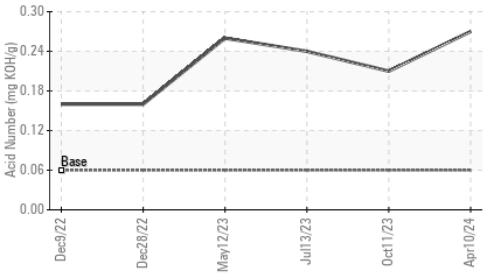
The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The system and fluid cleanliness is acceptable.

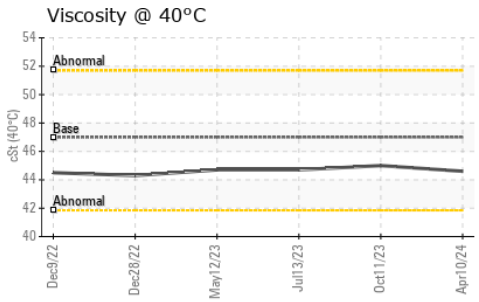
## FLUID CONDITION

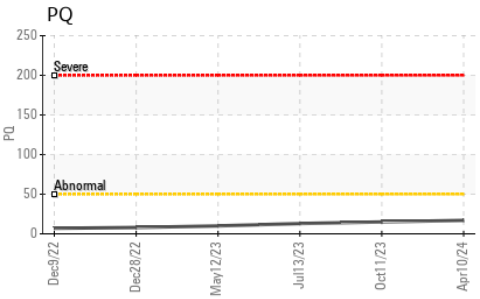
The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

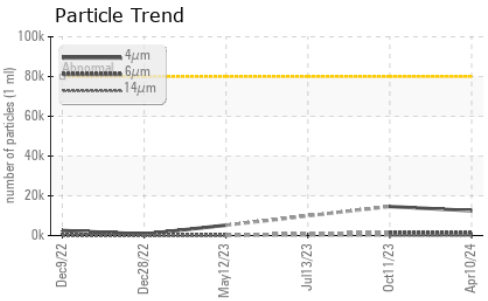
| Test | UOM | Method | Limit/Abn | Current | History1 | History2 |
|---|---|---|---|---|---|---|
| Sample Number | | Client Info | | LEC0049630 | LEC0042787 | LEC0041074 |
| Sample Date | | Client Info | | 10 Apr 2024 | 11 Oct 2023 | 13 Jul 2023 |
| Machine Age | hrs | Client Info | | 1919 | 1570 | 1083 |
| Oil Age | hrs | Client Info | | 1919 | 1570 | 1083 |
| Filter Age | hrs | Client Info | | 349 | 1570 | 1083 |
| Oil Changed | | Client Info | | Not Changd | Not Changd | Not Changd |
| Filter Changed | | Client Info | | Changed | Not Changd | Changed |
| Sample Status | | | | NORMAL | NORMAL | ABNORMAL |
| PQ | | ASTM D8184 | >50 | 17 | 15 | 13 |
| Iron | ppm | ASTM D5185m | >32 | 8 | 6 | 5 |
| Chromium | ppm | ASTM D5185m | >9 | 0 | 0 | 0 |
| Nickel | ppm | ASTM D5185m | >5 | 0 | 0 | 0 |
| Titanium | ppm | ASTM D5185m | | 0 | <1 | <1 |
| Silver | ppm | ASTM D5185m | | 0 | 0 | 0 |
| Aluminum | ppm | ASTM D5185m | >9 | 0 | 0 | 2 |
| Lead | ppm | ASTM D5185m | >28 | 0 | 0 | 0 |
| Copper | ppm | ASTM D5185m | >50 | 8 | 9 | 7 |
| Tin | ppm | ASTM D5185m | >5 | 0 | <1 | <1 |
| Vanadium | ppm | ASTM D5185m | | 0 | 0 | <1 |
| White Metal | scalar | *Visual | NONE | NONE | NONE | ▲ MODER |
| Yellow Metal | scalar | *Visual | NONE | NONE | NONE | NONE |
| Silicon | ppm | ASTM D5185m | >11 | <1 | <1 | <1 |
| Potassium | ppm | ASTM D5185m | >20 | 0 | 0 | <1 |
| Water | | WC Method | >0.075 | NEG | NEG | NEG |
| Particles >4µm | | ASTM D7647 | >80000 | 12505 | 14627 | --- |
| Particles >6µm | | ASTM D7647 | >20000 | 1220 | 1507 | --- |
| Particles >14µm | | ASTM D7647 | >640 | 14 | 34 | --- |
| Particles >21µm | | ASTM D7647 | >160 | 3 | 7 | --- |
| Particles >38µm | | ASTM D7647 | >40 | 0 | 0 | --- |
| Particles >71µm | | ASTM D7647 | >10 | 0 | 0 | --- |
| Oil Cleanliness | | ISO 4406 (c) | >23/21/16 | 21/17/11 | 21/18/12 | --- |
| 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 | >0.075 | NEG | NEG | NEG |
| Sodium | ppm | ASTM D5185m | >21 | 3 | 1 | <1 |
| Boron | ppm | ASTM D5185m | | 0 | 0 | 0 |
| Barium | ppm | ASTM D5185m | | 0 | 1 | 0 |
| Molybdenum | ppm | ASTM D5185m | | 0 | <1 | <1 |
| Manganese | ppm | ASTM D5185m | | 0 | 0 | <1 |
| Magnesium | ppm | ASTM D5185m | | 0 | 5 | 2 |
| Calcium | ppm | ASTM D5185m | | 44 | 47 | 50 |
| Phosphorus | ppm | ASTM D5185m | 827 | 188 | 213 | 221 |
| Zinc | ppm | ASTM D5185m | 0 | 66 | 76 | 75 |
| Sulfur | ppm | ASTM D5185m | 13 | 376 | 405 | 492 |
| Acid Number (AN) | mg KOH/g | ASTM D8045 | 0.06 | 0.27 | 0.21 | 0.24 |
| Visc @ 40°C | cSt | ASTM D445 | 47 | 44.6 | 45.0 | 44.7 |

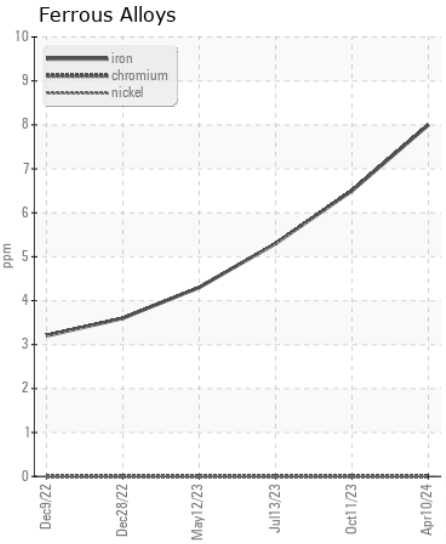


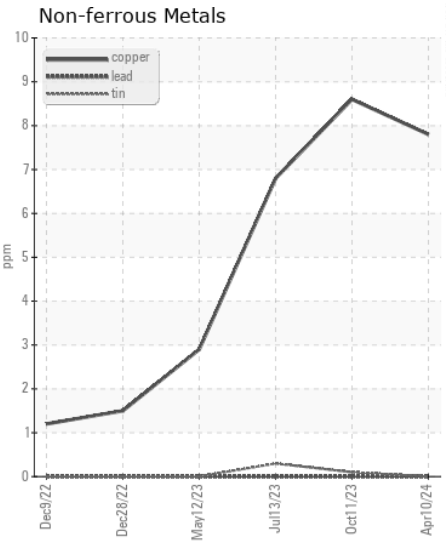



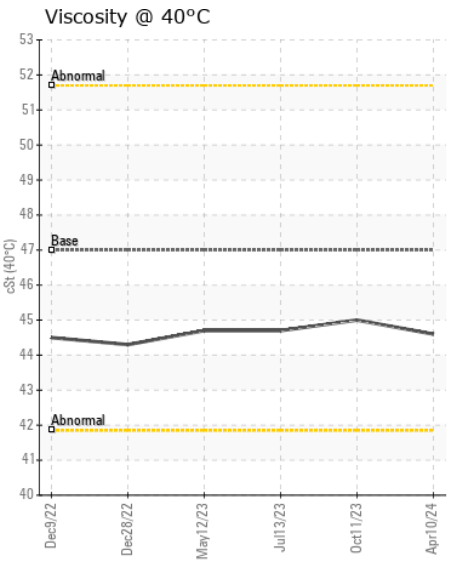



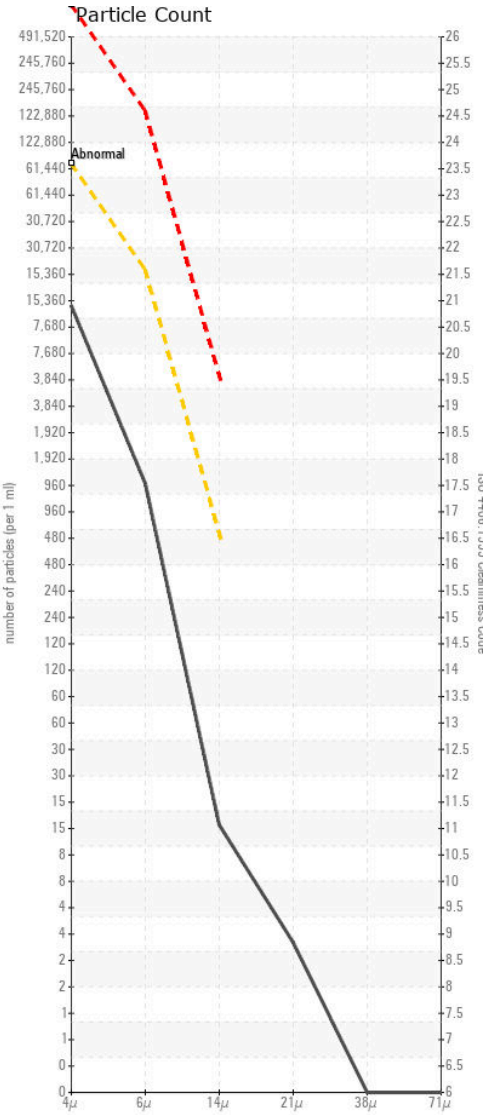



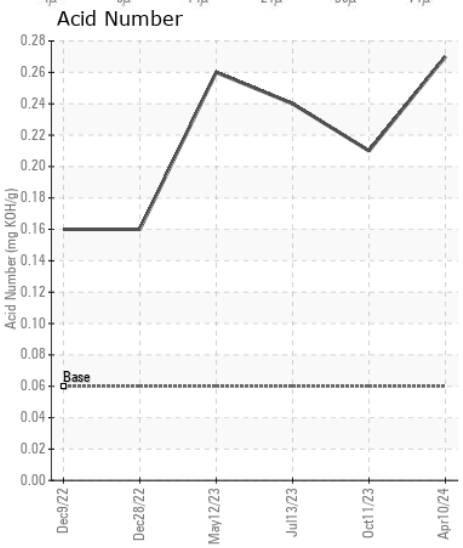




Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513
**Sample No.** : LEC0049630
**Lab Number** : 06149503
**Unique Number** : 10979581
**Test Package** : CONST ( Additional Tests: PQ )

**Received** : 15 Apr 2024
**Tested** : 16 Apr 2024
**Diagnosed** : 16 Apr 2024 - Wes Davis

*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)*

**LESLIE EQUIPMENT COMPANY**
105 TENNIS CENTER DR.
MARIETTA, OH
US 45750-9765
Contact: LEANNE KENDALL
KendalLeanne@lec1.com
T:
F: (740)373-5570