MOB

LESLIE EQUIPMENT CO.

# OIL ANALYSIS REPORT

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

Area
## Store 9 - Marietta [122361]
Machine Id
## JOHN DEERE 304L 1LU304LXLZB048374
Component
## Hydraulic System
Fluid
## JOHN DEERE HYDRAU (24 GAL)

## RECOMMENDATION

No corrective action is recommended at this time. The filter change at the time of sampling has been noted. Resample at the next service interval to monitor.

## WEAR

All component wear rates are normal.

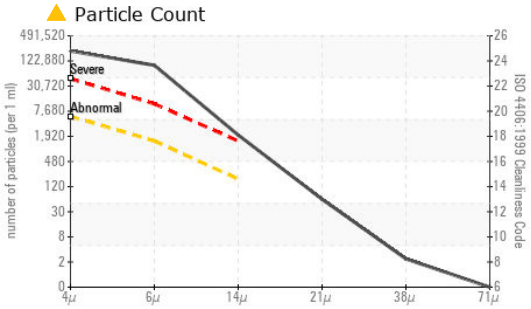
## CONTAMINATION

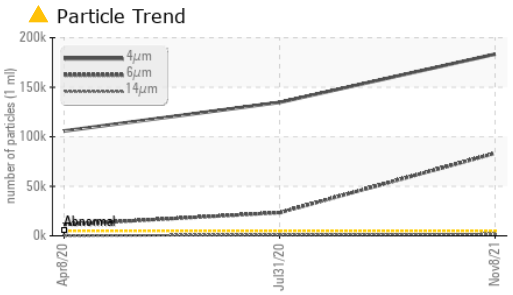
There is a high amount of particulates present in the oil.

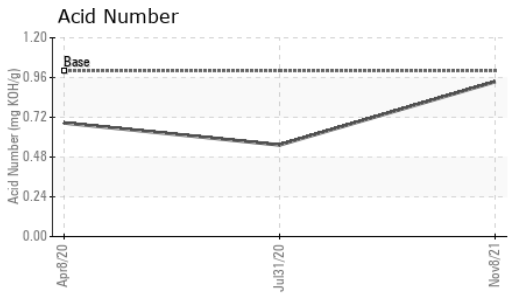
## FLUID CONDITION

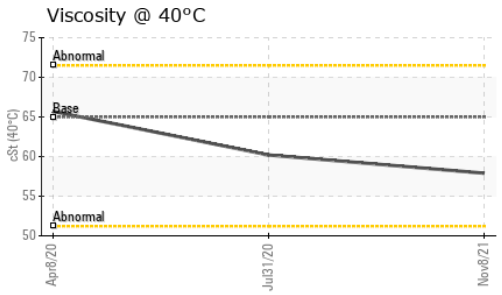
The AN level is acceptable for this fluid. The condition of the oils additive package is suitable for further service.

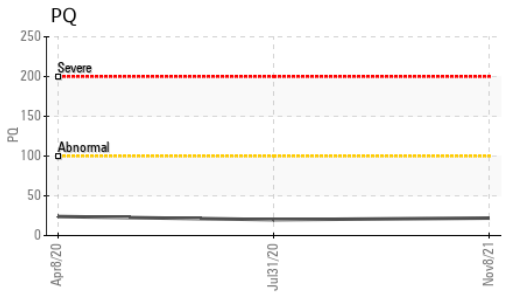
| Test | UOM | Method | Limit/Abn | Current | History1 | History2 |
|---|---|---|---|---|---|---|
| Sample Number | | Client Info | | LEC0023546 | LEC0013799 | LEC0009931 |
| Sample Date | | Client Info | | 08 Nov 2021 | 31 Jul 2020 | 08 Apr 2020 |
| Machine Age | hrs | Client Info | | 4184 | 2453 | 1970 |
| Oil Age | hrs | Client Info | | 4184 | 2453 | 1970 |
| Filter Age | hrs | Client Info | | 0 | 2453 | 0 |
| Oil Changed | | Client Info | | Not Changd | Not Changd | Not Changd |
| Filter Changed | | Client Info | | Changed | N/A | N/A |
| Sample Status | | | | ABNORMAL | ABNORMAL | ABNORMAL |
| PQ | | ASTM D8184 | | 22 | 20 | 24 |
| Iron | ppm | ASTM D5185m | >20 | 9 | 4 | 6 |
| Chromium | ppm | ASTM D5185m | >10 | 1 | <1 | 1 |
| Nickel | ppm | ASTM D5185m | | <1 | 0 | <1 |
| Titanium | ppm | ASTM D5185m | | <1 | 0 | <1 |
| Silver | ppm | ASTM D5185m | | 0 | 0 | 0 |
| Aluminum | ppm | ASTM D5185m | >10 | 3 | 1 | 2 |
| Lead | ppm | ASTM D5185m | >10 | 0 | <1 | <1 |
| Copper | ppm | ASTM D5185m | >75 | 2 | 3 | 2 |
| Tin | ppm | ASTM D5185m | >10 | 0 | 0 | <1 |
| Vanadium | ppm | ASTM D5185m | | 0 | 0 | 0 |
| White Metal | scalar | *Visual | NONE | NONE | LIGHT | VLITE |
| Yellow Metal | scalar | *Visual | NONE | NONE | NONE | NONE |
| Silicon | ppm | ASTM D5185m | >20 | 4 | 3 | 2 |
| Potassium | ppm | ASTM D5185m | >20 | 4 | <1 | 1 |
| Water | | WC Method | >0.1 | NEG | NEG | NEG |
| Particles >4µm | | ASTM D7647 | >5000 | ▲ 183376 | ▲ 134707 | ▲ 105890 |
| Particles >6µm | | ASTM D7647 | >1300 | ▲ 83390 | ▲ 23377 | ▲ 11362 |
| Particles >14µm | | ASTM D7647 | >160 | ▲ 1810 | ▲ 1112 | 88 |
| Particles >21µm | | ASTM D7647 | >40 | ▲ 53 | ▲ 153 | 17 |
| Particles >38µm | | ASTM D7647 | >10 | 2 | 4 | 1 |
| Particles >71µm | | ASTM D7647 | >3 | 0 | 0 | 0 |
| Oil Cleanliness | | ISO 4406 (c) | >19/17/14 | ▲ 25/24/18 | ▲ 24/22/17 | ▲ 24/21/14 |
| Silt | scalar | *Visual | NONE | NONE | NONE | NONE |
| Debris | scalar | *Visual | NONE | NONE | LIGHT | 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 |
| Sodium | ppm | ASTM D5185m | | 2 | 2 | 1 |
| Boron | ppm | ASTM D5185m | | 17 | 7 | 7 |
| Barium | ppm | ASTM D5185m | | 0 | <1 | 0 |
| Molybdenum | ppm | ASTM D5185m | | <1 | 2 | <1 |
| Manganese | ppm | ASTM D5185m | | <1 | <1 | <1 |
| Magnesium | ppm | ASTM D5185m | | 11 | 11 | 8 |
| Calcium | ppm | ASTM D5185m | 87 | 2039 | 1078 | 1199 |
| Phosphorus | ppm | ASTM D5185m | 727 | 628 | 201 | 316 |
| Zinc | ppm | ASTM D5185m | 900 | 704 | 290 | 395 |
| Sulfur | ppm | ASTM D5185m | 1500 | 5258 | 3060 | 3460 |
| Acid Number (AN) | mg KOH/g | ASTM D8045 | 1.0 | 0.935 | 0.553 | 0.686 |
| Visc @ 40°C | cSt | ASTM D445 | 65 | 57.9 | 60.2 | 65.7 |

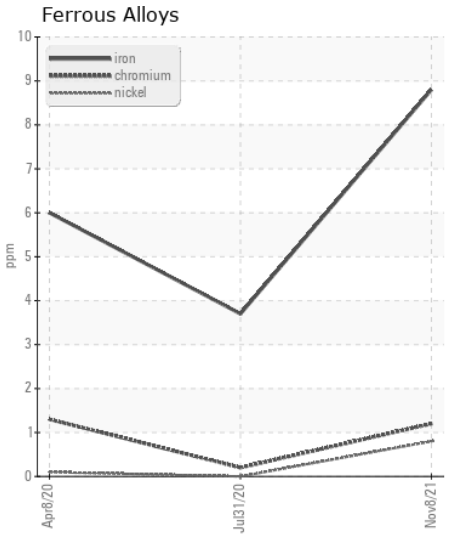


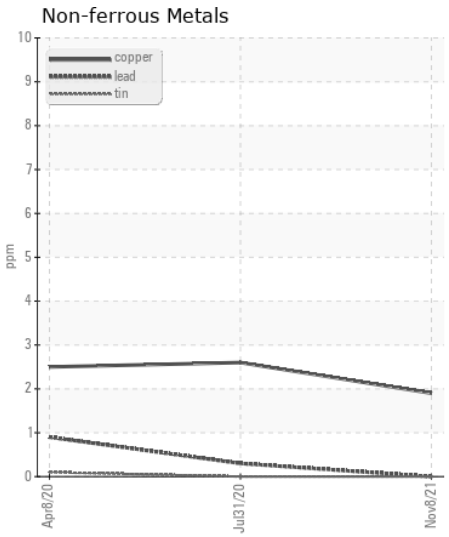



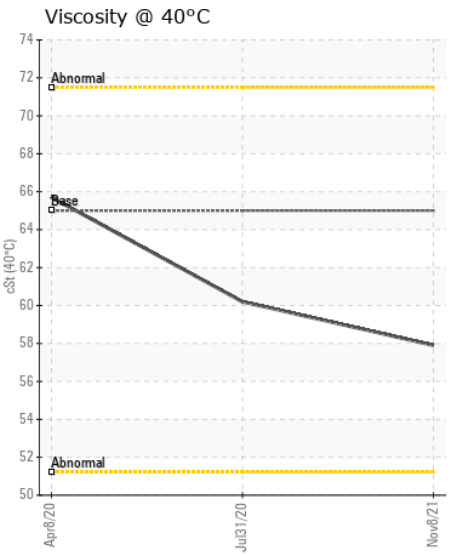



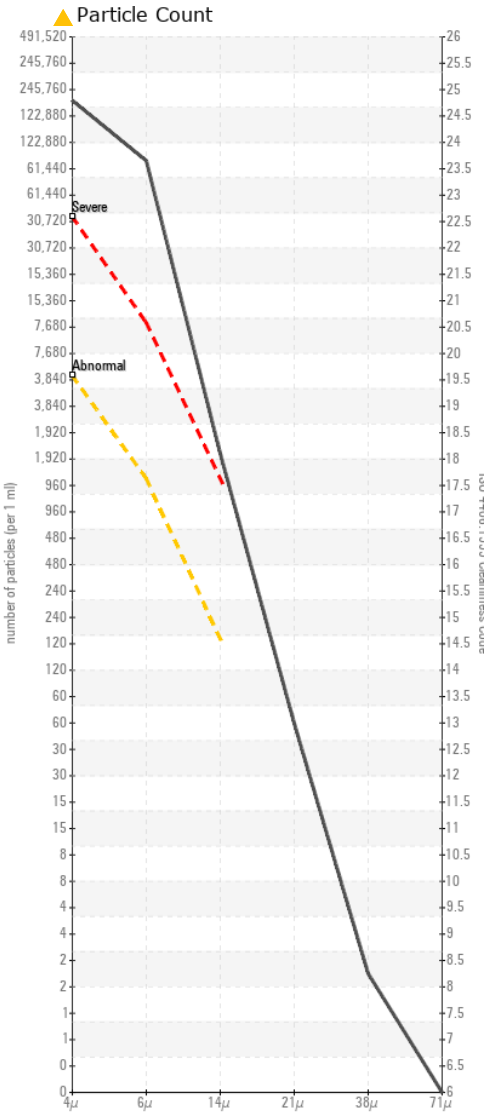



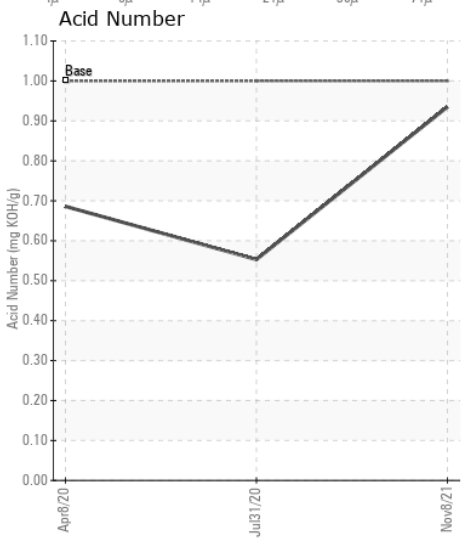




Certificate L2367

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|---|---|---|---|
| **Laboratory** | : WearCheck USA - 501 Madison Ave., Cary, NC 27513 | | |
| **Sample No.** | : LEC0023546 | **Recieved** | : 12 Nov 2021 |
| **Lab Number** | : 05399520 | **Diagnosed** | : 15 Nov 2021 |
| **Unique Number** | : 9738670 | **Diagnostician** | : Don Baldridge |
| **Test Package** | : MOBCE ( 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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