LESLIE EQUIPMENT CO.

# OIL ANALYSIS REPORT

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

Area
## Store 9 - Marietta
Machine Id
## JOHN DEERE 333G 1T0333GMHMF405378
Component
## Hydraulic System
Fluid
## JOHN DEERE HYDRAU (9 GAL)

## RECOMMENDATION

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

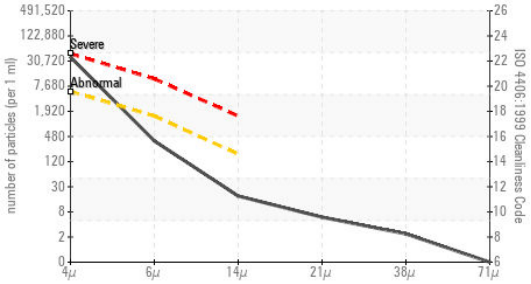
There is a high amount of silt (particulates < 14 microns in size) present in the oil. There is a light concentration of water present in the oil.

## FLUID CONDITION

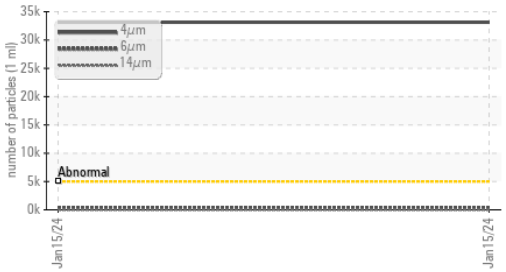
The AN level is acceptable for this fluid.

| Test | UOM | Method | Limit/Abn | Current | History1 | History2 |
|---|---|---|---|---|---|---|
| Sample Number | | Client Info | | LEC0047292 | --- | --- |
| Sample Date | | Client Info | | 15 Jan 2024 | --- | --- |
| Machine Age | hrs | Client Info | | 356 | --- | --- |
| Oil Age | hrs | Client Info | | 356 | --- | --- |
| Filter Age | hrs | Client Info | | 356 | --- | --- |
| Oil Changed | | Client Info | | Not Changd | --- | --- |
| Filter Changed | | Client Info | | Changed | --- | --- |
| Sample Status | | | | ABNORMAL | --- | --- |
| PQ | | ASTM D8184 | | 15 | --- | --- |
| Iron | ppm | ASTM D5185m | >20 | 12 | --- | --- |
| Chromium | ppm | ASTM D5185m | >10 | 0 | --- | --- |
| Nickel | ppm | ASTM D5185m | >10 | 0 | --- | --- |
| Titanium | ppm | ASTM D5185m | | 0 | --- | --- |
| Silver | ppm | ASTM D5185m | | 0 | --- | --- |
| Aluminum | ppm | ASTM D5185m | >10 | <1 | --- | --- |
| Lead | ppm | ASTM D5185m | >10 | 2 | --- | --- |
| Copper | ppm | ASTM D5185m | >75 | 13 | --- | --- |
| Tin | ppm | ASTM D5185m | >10 | <1 | --- | --- |
| Vanadium | ppm | ASTM D5185m | | 0 | --- | --- |
| White Metal | scalar | *Visual | NONE | NONE | --- | --- |
| Yellow Metal | scalar | *Visual | NONE | NONE | --- | --- |
| Silicon | ppm | ASTM D5185m | >20 | 6 | --- | --- |
| Potassium | ppm | ASTM D5185m | >20 | 2 | --- | --- |
| Water | % | ASTM D6304 | >0.1 | ▲ 0.183 | --- | --- |
| ppm Water | ppm | ASTM D6304 | >1000 | ▲ 1830 | --- | --- |
| Particles >4µm | | ASTM D7647 | >5000 | ▲ 33140 | --- | --- |
| Particles >6µm | | ASTM D7647 | >1300 | 331 | --- | --- |
| Particles >14µm | | ASTM D7647 | >160 | 16 | --- | --- |
| Particles >21µm | | ASTM D7647 | >40 | 5 | --- | --- |
| Particles >38µm | | ASTM D7647 | >10 | 2 | --- | --- |
| Particles >71µm | | ASTM D7647 | >3 | 0 | --- | --- |
| Oil Cleanliness | | ISO 4406 (c) | >19/17/14 | ▲ 22/16/11 | --- | --- |
| Silt | scalar | *Visual | NONE | NONE | --- | --- |
| Debris | scalar | *Visual | NONE | NONE | --- | --- |
| Sand/Dirt | scalar | *Visual | NONE | NONE | --- | --- |
| Appearance | scalar | *Visual | NORML | NORML | --- | --- |
| Odor | scalar | *Visual | NORML | NORML | --- | --- |
| Emulsified Water | scalar | *Visual | >0.1 | 0.2% | --- | --- |
| Sodium | ppm | ASTM D5185m | | <1 | --- | --- |
| Boron | ppm | ASTM D5185m | | 0 | --- | --- |
| Barium | ppm | ASTM D5185m | | 0 | --- | --- |
| Molybdenum | ppm | ASTM D5185m | | 0 | --- | --- |
| Manganese | ppm | ASTM D5185m | | <1 | --- | --- |
| Magnesium | ppm | ASTM D5185m | | 3 | --- | --- |
| Calcium | ppm | ASTM D5185m | 87 | 72 | --- | --- |
| Phosphorus | ppm | ASTM D5185m | 727 | 600 | --- | --- |
| Zinc | ppm | ASTM D5185m | 900 | 788 | --- | --- |
| Sulfur | ppm | ASTM D5185m | 1500 | 1616 | --- | --- |
| Acid Number (AN) | mg KOH/g | ASTM D8045 | 1.0 | 0.62 | --- | --- |
| Visc @ 40°C | cSt | ASTM D445 | 65 | 53.4 | --- | --- |

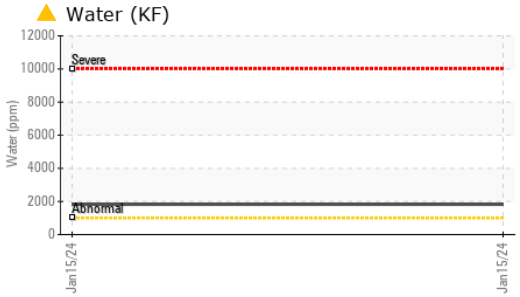
## Particle Count



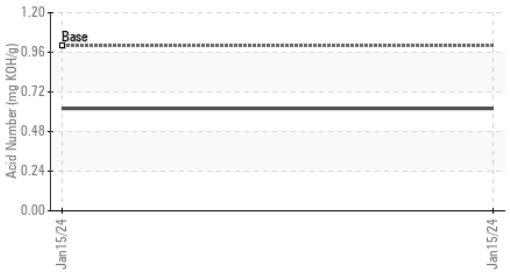

## Particle Trend



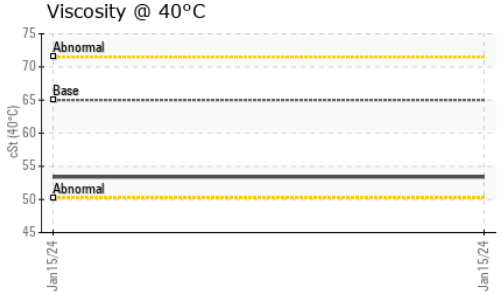

## Water (KF)



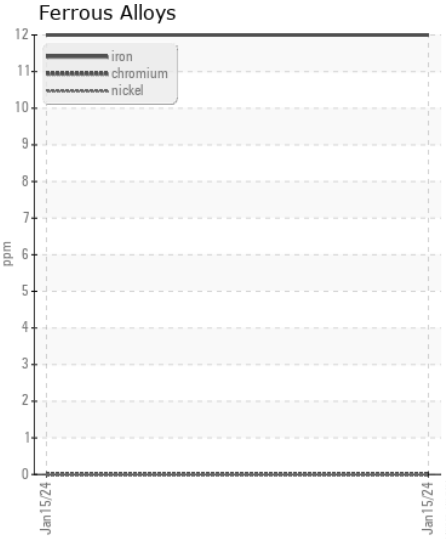

## Acid Number



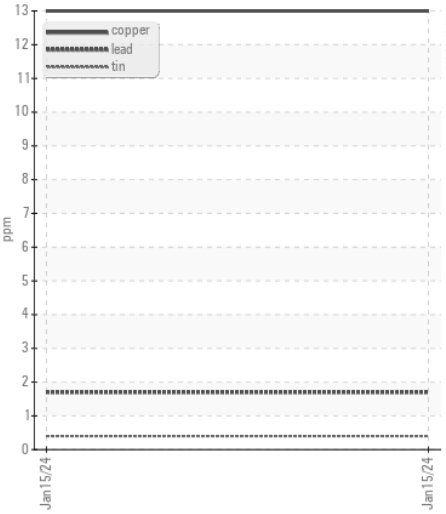

## Viscosity @ 40°C



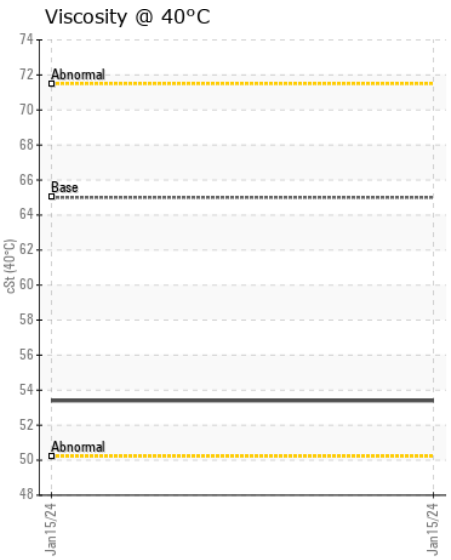

## Ferrous Alloys



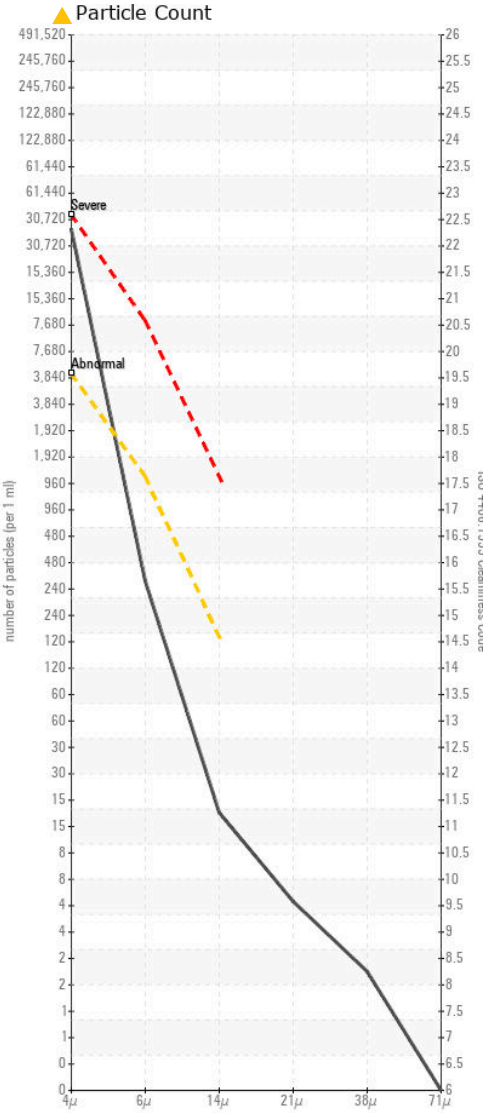

## Non-ferrous Metals



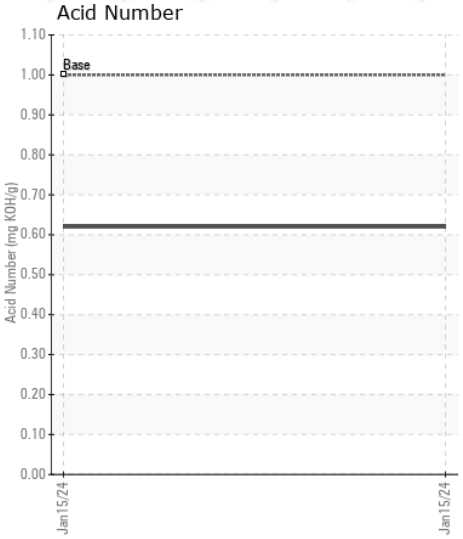

## Viscosity @ 40°C




## Particle Count




## Acid Number




Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513
**Sample No.** : LEC0047292 **Recieved** : 18 Jan 2024
**Lab Number** : 06064202 **Diagnosed** : 28 Jan 2024
**Unique Number** : 10835584 **Diagnostician** : Don Baldridge
**Test Package** : CONST ( Additional Tests: KF, 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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