James River Equipment

OIL ANALYSIS REPORT

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

Machine Id
## JOHN DEERE 333G JDSS-82 (S/N 1T0333GMJRF459912)
Component
## Diesel Engine
Fluid
## {not provided} (--- GAL)

## RECOMMENDATION

Oil and filter change at the time of sampling has been noted. No corrective action is recommended at this time. Resample at the next service interval to monitor. Please specify the brand, type, and viscosity of the oil on your next sample.

## WEAR

The copper level is abnormal. In the absence of other significant wear metals, suspect copper due to sources other than wear (i.e. cooling core). All other metal levels are typical for a new component breaking in.

## CONTAMINATION

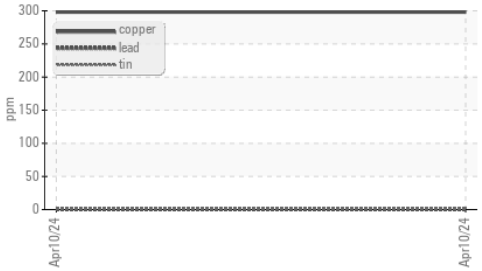
There is no indication of any contamination in the oil.

## FLUID CONDITION

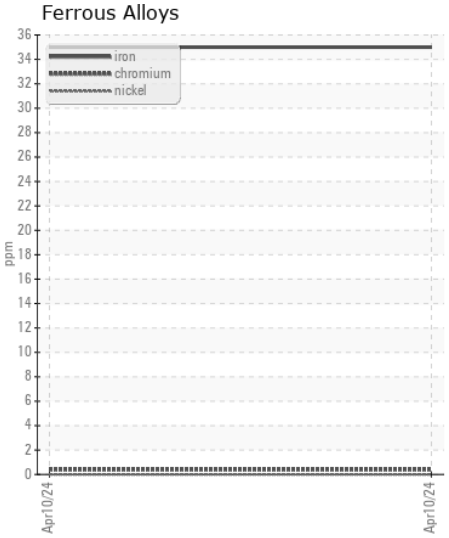
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is acceptable for the time in service.

| Test | UOM | Method | Limit/Abn | Current | History1 | History2 |
|---|---|---|---|---|---|---|
| Sample Number | | Client Info | | JR0198072 | --- | --- |
| Sample Date | | Client Info | | 10 Apr 2024 | --- | --- |
| Machine Age | hrs | Client Info | | 543 | --- | --- |
| Oil Age | hrs | Client Info | | 543 | --- | --- |
| Filter Age | hrs | Client Info | | 543 | --- | --- |
| Oil Changed | | Client Info | | Changed | --- | --- |
| Filter Changed | | Client Info | | Changed | --- | --- |
| Sample Status | | | | ABNORMAL | --- | --- |
| Iron | ppm | ASTM D5185m | >51 | 35 | --- | --- |
| Chromium | ppm | ASTM D5185m | >11 | <1 | --- | --- |
| Nickel | ppm | ASTM D5185m | >5 | 0 | --- | --- |
| Titanium | ppm | ASTM D5185m | | 0 | --- | --- |
| Silver | ppm | ASTM D5185m | >3 | 0 | --- | --- |
| Aluminum | ppm | ASTM D5185m | >31 | 7 | --- | --- |
| Lead | ppm | ASTM D5185m | >26 | 0 | --- | --- |
| Copper | ppm | ASTM D5185m | >26 | ▲ 298 | --- | --- |
| Tin | ppm | ASTM D5185m | >4 | 1 | --- | --- |
| Vanadium | ppm | ASTM D5185m | | 0 | --- | --- |
| White Metal | scalar | *Visual | NONE | NONE | --- | --- |
| Yellow Metal | scalar | *Visual | NONE | NONE | --- | --- |
| Silicon | ppm | ASTM D5185m | >22 | 44 | --- | --- |
| Potassium | ppm | ASTM D5185m | >20 | 1 | --- | --- |
| Fuel | % | ASTM D3524 | >2.1 | <1.0 | --- | --- |
| Water | | WC Method | >0.21 | NEG | --- | --- |
| Glycol | | WC Method | | NEG | --- | --- |
| Soot % | % | *ASTM D7844 | >3 | 0.3 | --- | --- |
| Nitration | Abs/cm | *ASTM D7624 | >20 | 9.1 | --- | --- |
| Sulfation | Abs/.1mm | *ASTM D7415 | >30 | 26.9 | --- | --- |
| 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 | >0.21 | NEG | --- | --- |
| Sodium | ppm | ASTM D5185m | >31 | 12 | --- | --- |
| Boron | ppm | ASTM D5185m | | 171 | --- | --- |
| Barium | ppm | ASTM D5185m | | 3 | --- | --- |
| Molybdenum | ppm | ASTM D5185m | | 227 | --- | --- |
| Manganese | ppm | ASTM D5185m | | 3 | --- | --- |
| Magnesium | ppm | ASTM D5185m | | 697 | --- | --- |
| Calcium | ppm | ASTM D5185m | | 1836 | --- | --- |
| Phosphorus | ppm | ASTM D5185m | | 916 | --- | --- |
| Zinc | ppm | ASTM D5185m | | 1149 | --- | --- |
| Sulfur | ppm | ASTM D5185m | | 3395 | --- | --- |
| Oxidation | Abs/.1mm | *ASTM D7414 | >25 | 25.2 | --- | --- |
| Base Number (BN) | mg KOH/g | ASTM D2896 | | 7.0 | --- | --- |
| Visc @ 100°C | cSt | ASTM D445 | | 12.2 | --- | --- |

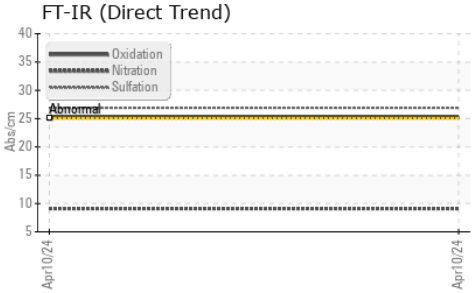
Non-ferrous Metals



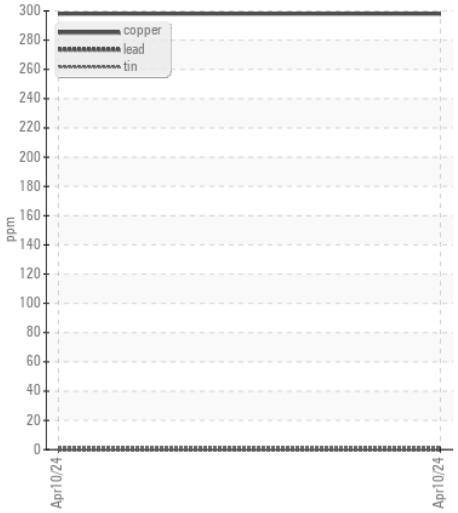

Ferrous Alloys



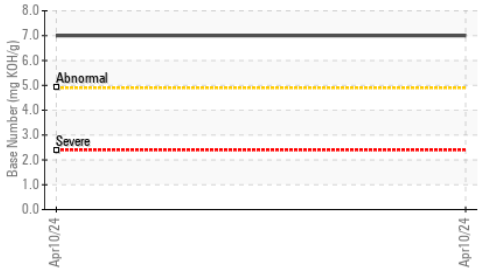

FT-IR (Direct Trend)



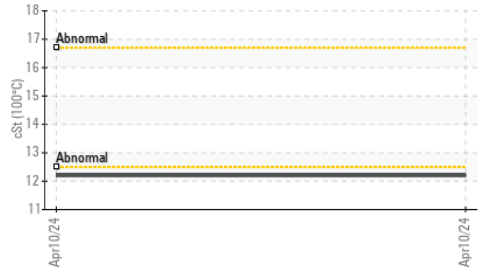

Non-ferrous Metals



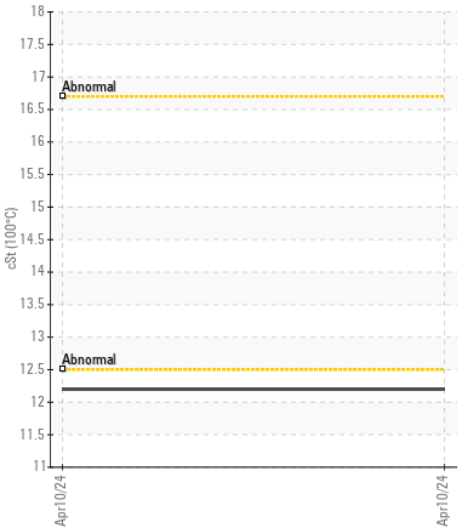

Base Number




Viscosity @ 100°C




Viscosity @ 100°C

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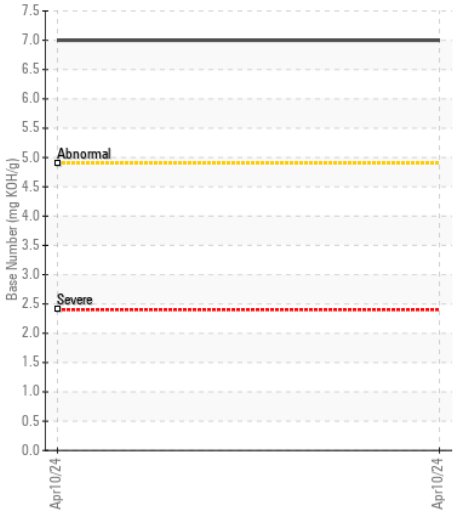


Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513
**Sample No.** : JR0198072 **Received** : 12 Apr 2024
**Lab Number** : 06147181 **Tested** : 15 Apr 2024
**Unique Number** : 10977259 **Diagnosed** : 16 Apr 2024 - Sean Felton
**Test Package** : CONST ( Additional Tests: FuelDilution, TBN )

*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)*

**PEDULLA**
1275 SHINN FARM RD
MOORESVILLE, NC
US 28115
Contact: STEPHEN

T:
F: