James River Equipment

OIL ANALYSIS REPORT

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

Machine Id
## JOHN DEERE 60G 1FF060GXCKJ291461
Component
## Diesel Engine
Fluid
## {not provided} (--- GAL)

## RECOMMENDATION

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. All other component wear rates are normal.

## CONTAMINATION

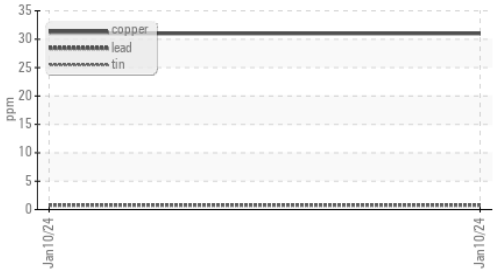
Fuel content negligible. There is no indication of any contamination in the oil.

## FLUID CONDITION

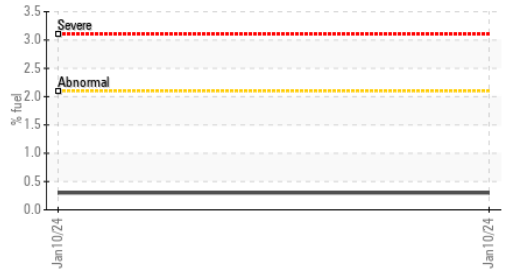
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

| Test | UOM | Method | Limit/Abn | Current | History1 | History2 |
|---|---|---|---|---|---|---|
| Sample Number | | Client Info | | JR0158842 | --- | --- |
| Sample Date | | Client Info | | 10 Jan 2024 | --- | --- |
| Machine Age | hrs | Client Info | | 2846 | --- | --- |
| Oil Age | hrs | Client Info | | 0 | --- | --- |
| Filter Age | hrs | Client Info | | 0 | --- | --- |
| Oil Changed | | Client Info | | Not Changd | --- | --- |
| Filter Changed | | Client Info | | Not Changd | --- | --- |
| Sample Status | | | | ABNORMAL | --- | --- |
| Iron | ppm | ASTM D5185m | >51 | 12 | --- | --- |
| Chromium | ppm | ASTM D5185m | >11 | <1 | --- | --- |
| Nickel | ppm | ASTM D5185m | >5 | <1 | --- | --- |
| Titanium | ppm | ASTM D5185m | | <1 | --- | --- |
| Silver | ppm | ASTM D5185m | >3 | 0 | --- | --- |
| Aluminum | ppm | ASTM D5185m | >31 | 3 | --- | --- |
| Lead | ppm | ASTM D5185m | >26 | <1 | --- | --- |
| Copper | ppm | ASTM D5185m | >26 | ▲ 31 | --- | --- |
| 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 | 11 | --- | --- |
| Potassium | ppm | ASTM D5185m | >20 | 3 | --- | --- |
| Fuel | % | ASTM D3524 | >2.1 | 0.3 | --- | --- |
| Water | | WC Method | >0.21 | NEG | --- | --- |
| Glycol | | WC Method | | NEG | --- | --- |
| Soot % | % | *ASTM D7844 | >3 | 0.1 | --- | --- |
| Nitration | Abs/cm | *ASTM D7624 | >20 | 6.5 | --- | --- |
| Sulfation | Abs/.1mm | *ASTM D7415 | >30 | 18.7 | --- | --- |
| 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 | 4 | --- | --- |
| Boron | ppm | ASTM D5185m | | 289 | --- | --- |
| Barium | ppm | ASTM D5185m | | 2 | --- | --- |
| Molybdenum | ppm | ASTM D5185m | | 229 | --- | --- |
| Manganese | ppm | ASTM D5185m | | 4 | --- | --- |
| Magnesium | ppm | ASTM D5185m | | 753 | --- | --- |
| Calcium | ppm | ASTM D5185m | | 1237 | --- | --- |
| Phosphorus | ppm | ASTM D5185m | | 918 | --- | --- |
| Zinc | ppm | ASTM D5185m | | 1002 | --- | --- |
| Sulfur | ppm | ASTM D5185m | | 3304 | --- | --- |
| Oxidation | Abs/.1mm | *ASTM D7414 | >25 | 14.5 | --- | --- |
| Base Number (BN) | mg KOH/g | ASTM D2896 | | 11.7 | --- | --- |
| Visc @ 100°C | cSt | ASTM D445 | | 9.8 | --- | --- |

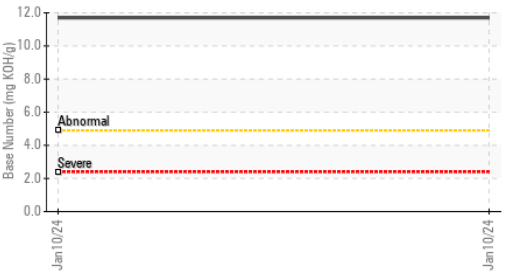
Non-ferrous Metals



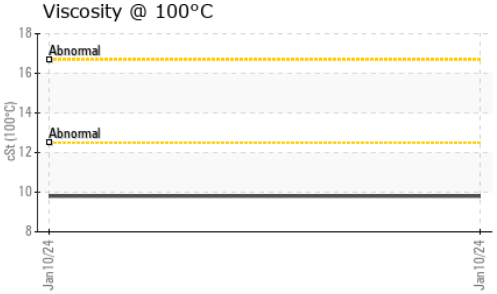

Fuel Dilution



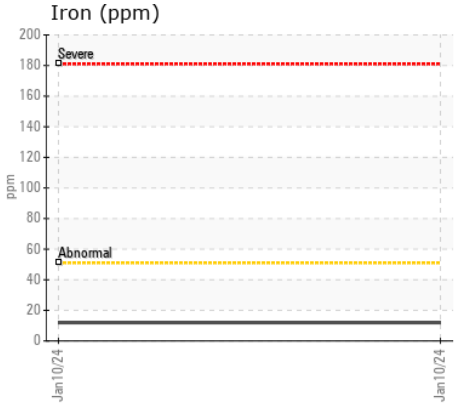

Base Number



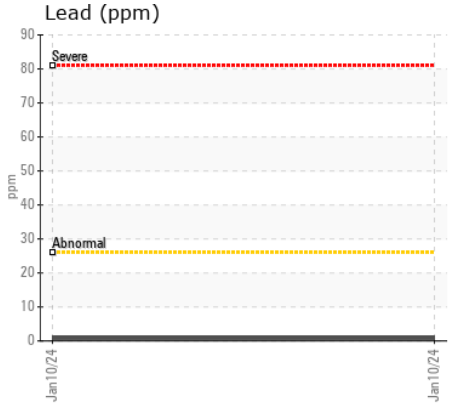

Viscosity @ 100°C



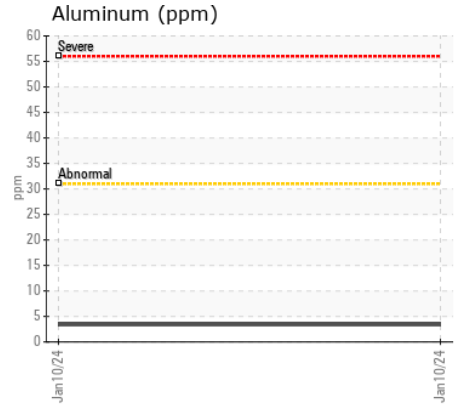

Iron (ppm)



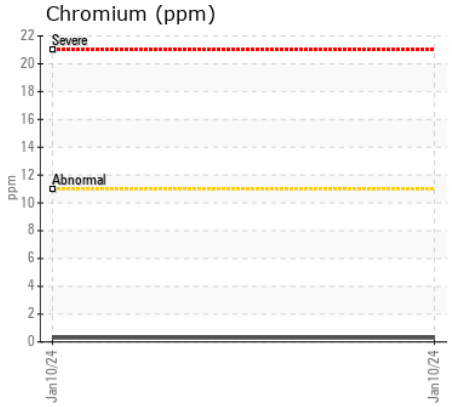

Lead (ppm)



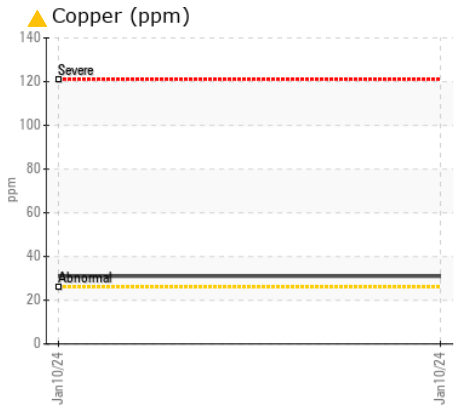

Aluminum (ppm)



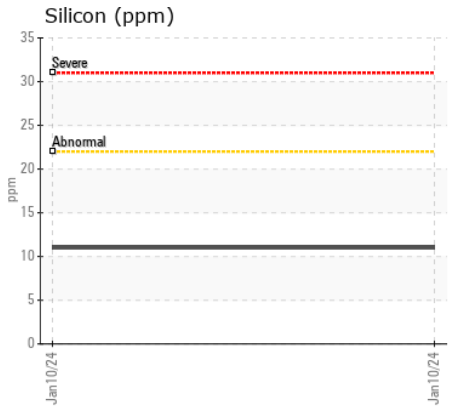

Chromium (ppm)



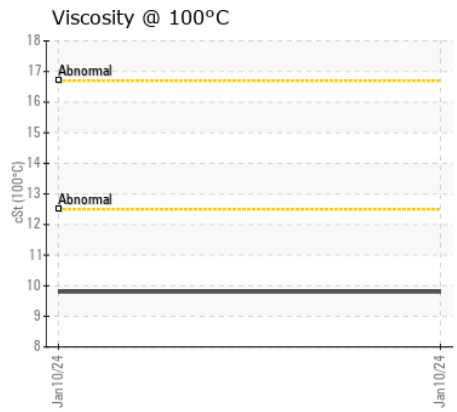

Copper (ppm)



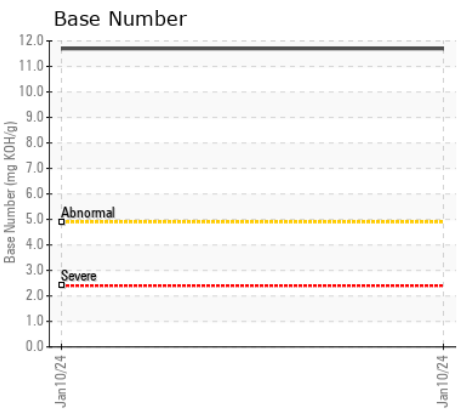

Silicon (ppm)




Viscosity @ 100°C




Base Number




Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513
**Sample No.** : JR0158842 **Recieved** : 11 Jan 2024
**Lab Number** : 06058685 **Diagnosed** : 15 Jan 2024
**Unique Number** : 10830067 **Diagnostician** : Jonathan Hester
**Test Package** : MOBCE ( Additional Tests: FuelDilution, PercentFuel, 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)*

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