James River Equipment

OIL ANALYSIS REPORT

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

Machine Id
## JOHN DEERE 648L II 1DW648LBLJF692803
Component
## Transmission (Manual)
Fluid
## JOHN DEERE HY-GARD HYD/TRANS (--- GAL)

### RECOMMENDATION

Resample at the next service interval to monitor.

### WEAR

All component wear rates are normal.

### CONTAMINATION

There is no indication of any contamination in the fluid.

### FLUID CONDITION

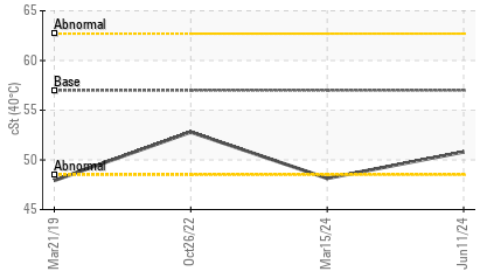
The condition of the fluid is acceptable for the time in service.

| Test | UOM | Method | Limit/Abn | Current | History1 | History2 |
|---|---|---|---|---|---|---|
| Sample Number | | Client Info | | **JR0211476** | JR0210775 | JR0148852 |
| Sample Date | | Client Info | | **11 Jun 2024** | 15 Mar 2024 | 26 Oct 2022 |
| Machine Age | hrs | Client Info | | **10268** | 10229 | 0 |
| Oil Age | hrs | Client Info | | **40** | 0 | 0 |
| Filter Age | hrs | Client Info | | **40** | 0 | 0 |
| Oil Changed | | Client Info | | **Not Changd** | Not Changd | Not Changd |
| Filter Changed | | Client Info | | **Not Changd** | Not Changd | Not Changd |
| Sample Status | | | | **NORMAL** | ABNORMAL | NORMAL |
| PQ | | ASTM D8184 | >95 | **21** | 48 | 9 |
| Iron | ppm | ASTM D5185m | >200 | **15** | 92 | 5 |
| Chromium | ppm | ASTM D5185m | >5 | **<1** | <1 | <1 |
| Nickel | ppm | ASTM D5185m | >5 | **<1** | 0 | 0 |
| Titanium | ppm | ASTM D5185m | | **<1** | 2 | 0 |
| Silver | ppm | ASTM D5185m | >7 | **0** | 0 | 0 |
| Aluminum | ppm | ASTM D5185m | >25 | **4** | ▲ 34 | 1 |
| Lead | ppm | ASTM D5185m | >45 | **<1** | 0 | <1 |
| Copper | ppm | ASTM D5185m | >225 | **3** | 7 | 1 |
| Tin | ppm | ASTM D5185m | >10 | **<1** | 0 | 0 |
| Vanadium | ppm | ASTM D5185m | | **0** | 0 | 0 |
| White Metal | scalar | *Visual | NONE | **NONE** | NONE | NONE |
| Yellow Metal | scalar | *Visual | NONE | **NONE** | NONE | NONE |
| Silicon | ppm | ASTM D5185m | >125 | **10** | 87 | 5 |
| Potassium | ppm | ASTM D5185m | >20 | **2** | 12 | 0 |
| Water | | WC Method | >0.1 | **NEG** | NEG | NEG |
| 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 | >0.1 | **NEG** | NEG | NEG |
| Sodium | ppm | ASTM D5185m | | **9** | 7 | 11 |
| Boron | ppm | ASTM D5185m | 6 | **1** | 12 | 0 |
| Barium | ppm | ASTM D5185m | 0 | **0** | <1 | <1 |
| Molybdenum | ppm | ASTM D5185m | 0 | **1** | 3 | 6 |
| Manganese | ppm | ASTM D5185m | | **<1** | 0 | <1 |
| Magnesium | ppm | ASTM D5185m | 145 | **105** | 107 | 111 |
| Calcium | ppm | ASTM D5185m | 3570 | **3540** | 3393 | 3333 |
| Phosphorus | ppm | ASTM D5185m | 1290 | **1067** | 1117 | 972 |
| Zinc | ppm | ASTM D5185m | 1640 | **1312** | 1264 | 1204 |
| Sulfur | ppm | ASTM D5185m | | **3773** | 3879 | 3975 |
| Visc @ 40°C | cSt | ASTM D445 | 57.0 | **50.8** | 48.14 | 52.8 |

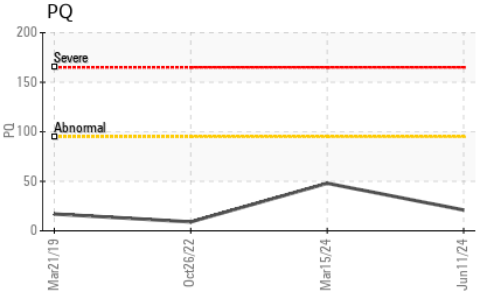
Report Id: JAMASH [WUSCAR] 06210396 (Generated: 06/17/2024 20:47:38) Rev: 1

Contact/Location: DAVID ZIEG - JAMASH

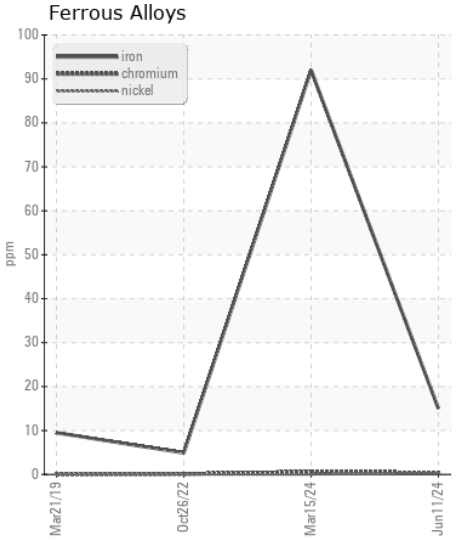
Viscosity @ 40°C



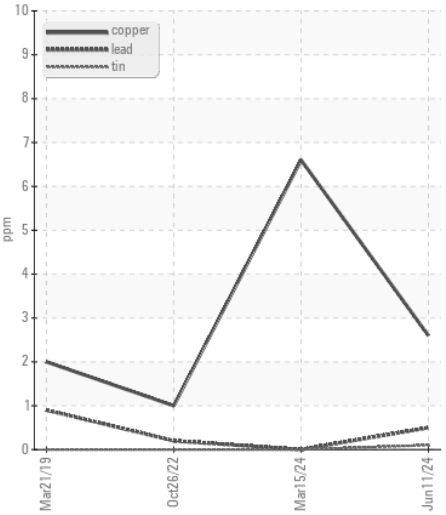

PQ



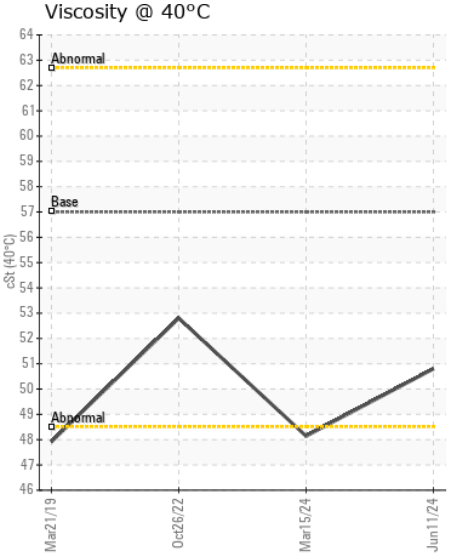

Ferrous Alloys



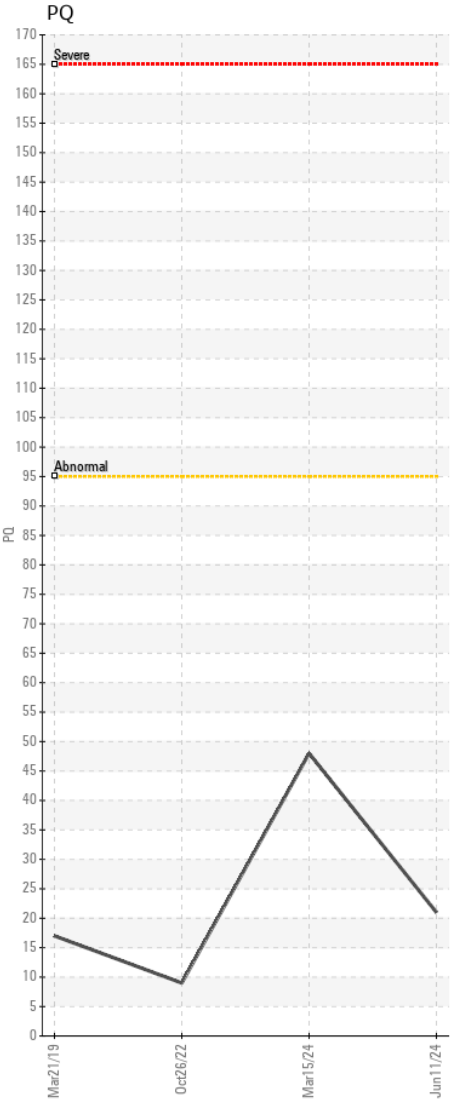

Non-ferrous Metals




Viscosity @ 40°C




PQ




Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513
**Sample No.** : JR0211476 **Received** : 14 Jun 2024
**Lab Number** : 06210396 **Tested** : 17 Jun 2024
**Unique Number** : 11083260 **Diagnosed** : 17 Jun 2024 - Wes Davis
**Test Package** : CONST ( 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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