CONST

James River Equipment

OIL ANALYSIS REPORT

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

Machine Id
## JOHN DEERE 824K 1DW824KXLHF674516
Component
## Front Differential
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 oil.

## FLUID CONDITION

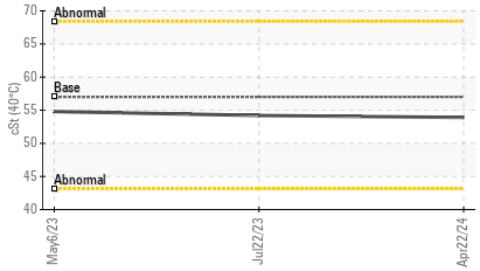
The condition of the oil is acceptable for the time in service.

| Test | UOM | Method | Limit/Abn | Current | History1 | History2 |
|---|---|---|---|---|---|---|
| Sample Number | | Client Info | | JR0208994 | JR0176480 | JR0167289 |
| Sample Date | | Client Info | | 22 Apr 2024 | 22 Jul 2023 | 06 May 2023 |
| Machine Age | hrs | Client Info | | 15228 | 13550 | 13037 |
| Oil Age | hrs | Client Info | | 15228 | 13550 | 13037 |
| Filter Age | hrs | Client Info | | 0 | 0 | 0 |
| Oil Changed | | Client Info | | Not Changd | Not Changd | Not Changd |
| Filter Changed | | Client Info | | Changed | Changed | Not Changd |
| Sample Status | | | | NORMAL | NORMAL | ABNORMAL |
| PQ | | ASTM D8184 | | 13 | 9 | 12 |
| Iron | ppm | ASTM D5185m | >1501 | 11 | 8 | 319 |
| Chromium | ppm | ASTM D5185m | >11 | <1 | 0 | 2 |
| Nickel | ppm | ASTM D5185m | >10 | <1 | 0 | 0 |
| Titanium | ppm | ASTM D5185m | | <1 | 0 | 0 |
| Silver | ppm | ASTM D5185m | | 0 | 0 | 0 |
| Aluminum | ppm | ASTM D5185m | >21 | 2 | <1 | 12 |
| Lead | ppm | ASTM D5185m | >51 | 3 | 4 | 2 |
| Copper | ppm | ASTM D5185m | >101 | 3 | 4 | 2 |
| Tin | ppm | ASTM D5185m | >10 | <1 | 0 | 0 |
| Vanadium | ppm | ASTM D5185m | | <1 | 0 | 0 |
| White Metal | scalar | *Visual | NONE | NONE | NONE | NONE |
| Yellow Metal | scalar | *Visual | NONE | NONE | NONE | NONE |
| Silicon | ppm | ASTM D5185m | >31 | 3 | 2 | ▲ 67 |
| Potassium | ppm | ASTM D5185m | >20 | 2 | 0 | 4 |
| 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 | >51 | <1 | 1 | 3 |
| Boron | ppm | ASTM D5185m | 6 | <1 | 0 | 4 |
| Barium | ppm | ASTM D5185m | 0 | 0 | 0 | 0 |
| Molybdenum | ppm | ASTM D5185m | 0 | <1 | <1 | 0 |
| Manganese | ppm | ASTM D5185m | | <1 | <1 | 3 |
| Magnesium | ppm | ASTM D5185m | 145 | 94 | 106 | 100 |
| Calcium | ppm | ASTM D5185m | 3570 | 3218 | 3758 | 3385 |
| Phosphorus | ppm | ASTM D5185m | 1290 | 1047 | 1067 | 1011 |
| Zinc | ppm | ASTM D5185m | 1640 | 1195 | 1311 | 1198 |
| Sulfur | ppm | ASTM D5185m | | 3792 | 4270 | 6515 |
| Visc @ 40°C | cSt | ASTM D445 | 57.0 | 53.9 | 54.2 | 54.8 |

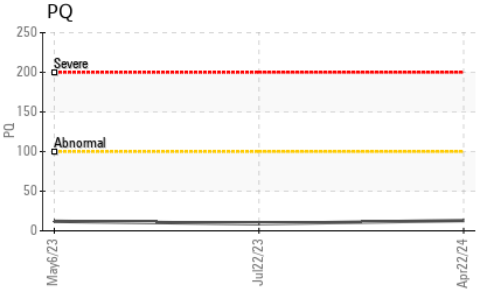
Report Id: AMEWICKS [WUSCAR] 06157972 (Generated: 04/24/2024 07:32:49) Rev: 1

Submitted By: Jeffrey Moore

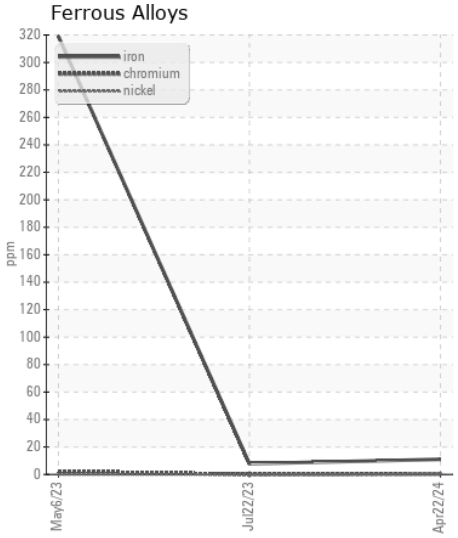
Viscosity @ 40°C



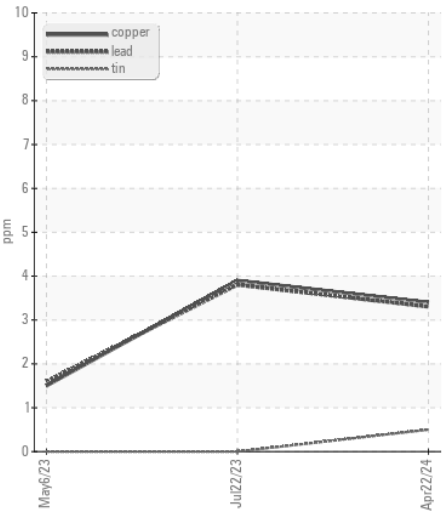

PQ



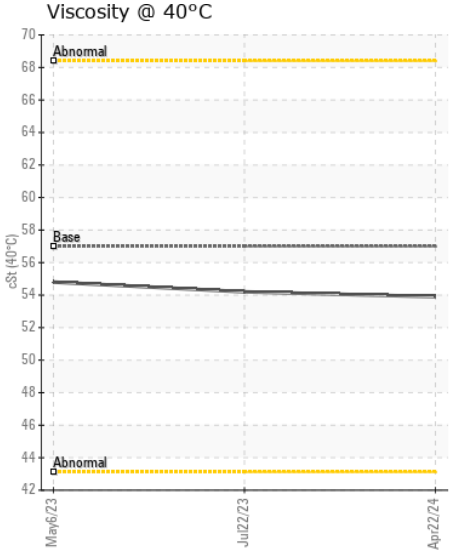

Ferrous Alloys



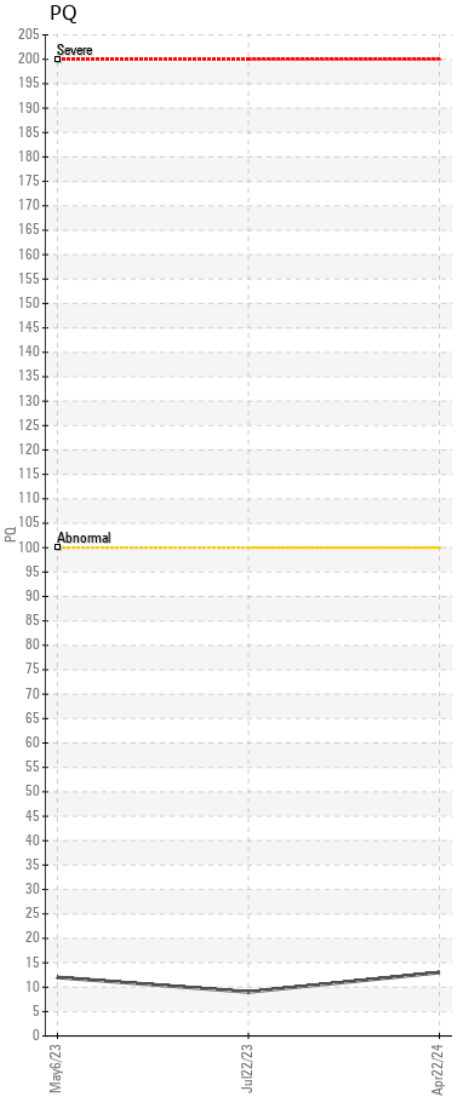

Non-ferrous Metals




Viscosity @ 40°C




PQ




Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513
**Sample No.** : JR0208994 **Received** : 23 Apr 2024
**Lab Number** : 06157972 **Tested** : 24 Apr 2024
**Unique Number** : 10993395 **Diagnosed** : 24 Apr 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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