CONST

James River Equipment

OIL ANALYSIS REPORT

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

Machine Id
## JOHN DEERE 650K 1T0650KKEHF318440
Component
## Hydraulic System
Fluid
## Hydraulic System Oil (--- QTS)

## RECOMMENDATION

Resample at the next service interval to monitor.

## WEAR

All component wear rates are normal.

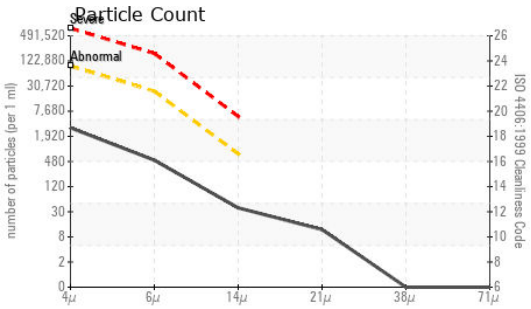
## CONTAMINATION

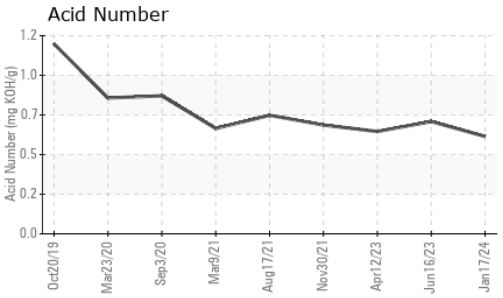
There is no indication of any contamination in the oil. The amount and size of particulates present in the system are acceptable.

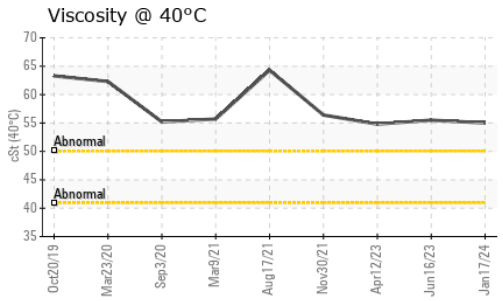
## FLUID CONDITION

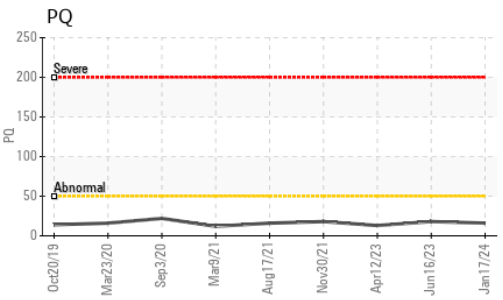
The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

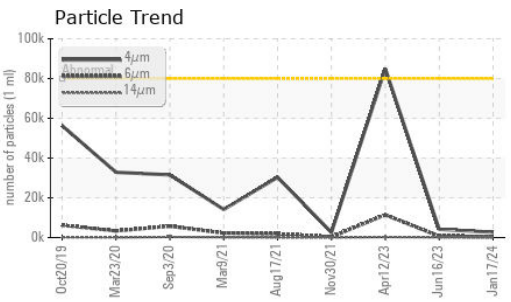
| Test | UOM | Method | Limit/Abn | Current | History1 | History2 |
|---|---|---|---|---|---|---|
| Sample Number | | Client Info | | JR0198847 | JR0171164 | JR0161663 |
| Sample Date | | Client Info | | 17 Jan 2024 | 16 Jun 2023 | 12 Apr 2023 |
| Machine Age | hrs | Client Info | | 4992 | 4469 | 4173 |
| Oil Age | hrs | Client Info | | 4696 | 500 | 500 |
| Filter Age | hrs | Client Info | | 0 | 500 | 500 |
| Oil Changed | | Client Info | | Not Changd | Not Changd | Changed |
| Filter Changed | | Client Info | | Not Changd | Not Changd | Changed |
| Sample Status | | | | NORMAL | NORMAL | ATTENTION |
| PQ | | ASTM D8184 | >50 | 16 | 18 | 13 |
| Iron | ppm | ASTM D5185m | >23 | 6 | 12 | 13 |
| Chromium | ppm | ASTM D5185m | >9 | 1 | 2 | 1 |
| Nickel | ppm | ASTM D5185m | >5 | 0 | <1 | 0 |
| Titanium | ppm | ASTM D5185m | | <1 | <1 | <1 |
| Silver | ppm | ASTM D5185m | | 0 | 0 | 0 |
| Aluminum | ppm | ASTM D5185m | >9 | 3 | 4 | 5 |
| Lead | ppm | ASTM D5185m | >28 | 0 | 1 | 0 |
| Copper | ppm | ASTM D5185m | >51 | 10 | 9 | 10 |
| Tin | ppm | ASTM D5185m | >5 | 0 | 0 | 0 |
| Vanadium | ppm | ASTM D5185m | | 0 | <1 | 0 |
| White Metal | scalar | *Visual | NONE | NONE | NONE | NONE |
| Yellow Metal | scalar | *Visual | NONE | NONE | NONE | NONE |
| Silicon | ppm | ASTM D5185m | >31 | 5 | 5 | 6 |
| Potassium | ppm | ASTM D5185m | >20 | 0 | 2 | 0 |
| Water | | WC Method | >0.075 | NEG | NEG | NEG |
| Particles >4µm | | ASTM D7647 | >80000 | 2684 | 4133 | ▲ 84938 |
| Particles >6µm | | ASTM D7647 | >20000 | 453 | 723 | 11454 |
| Particles >14µm | | ASTM D7647 | >640 | 33 | 63 | 245 |
| Particles >21µm | | ASTM D7647 | >160 | 10 | 18 | 43 |
| Particles >38µm | | ASTM D7647 | >40 | 0 | 1 | 1 |
| Particles >71µm | | ASTM D7647 | >10 | 0 | 0 | 0 |
| Oil Cleanliness | | ISO 4406 (c) | >23/21/16 | 19/16/12 | 19/17/13 | ▲ 24/21/15 |
| Silt | scalar | *Visual | NONE | NONE | NONE | NONE |
| Debris | scalar | *Visual | NONE | NONE | NONE | LIGHT |
| 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 | >0.075 | NEG | NEG | NEG |
| Sodium | ppm | ASTM D5185m | >21 | 0 | 1 | <1 |
| Boron | ppm | ASTM D5185m | | 0 | 0 | 0 |
| Barium | ppm | ASTM D5185m | | 0 | 0 | 0 |
| Molybdenum | ppm | ASTM D5185m | | <1 | 1 | 1 |
| Manganese | ppm | ASTM D5185m | | <1 | <1 | <1 |
| Magnesium | ppm | ASTM D5185m | | 9 | 4 | 5 |
| Calcium | ppm | ASTM D5185m | | 217 | 97 | 95 |
| Phosphorus | ppm | ASTM D5185m | | 631 | 611 | 600 |
| Zinc | ppm | ASTM D5185m | | 791 | 828 | 791 |
| Sulfur | ppm | ASTM D5185m | | 1562 | 1896 | 1871 |
| Acid Number (AN) | mg KOH/g | ASTM D8045 | | 0.59 | 0.68 | 0.62 |
| Visc @ 40°C | cSt | ASTM D445 | | 55.0 | 55.5 | 54.8 |

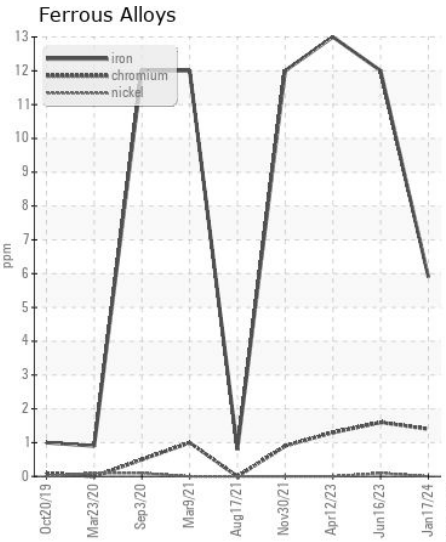


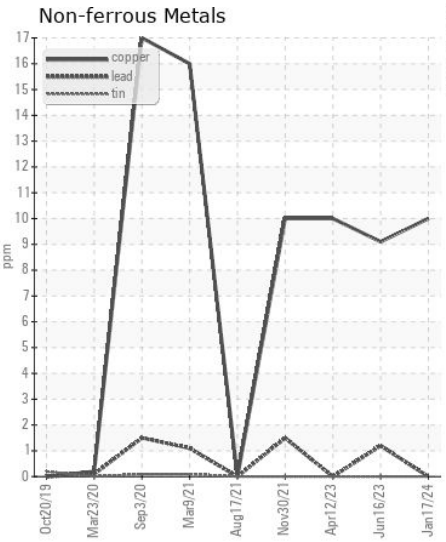



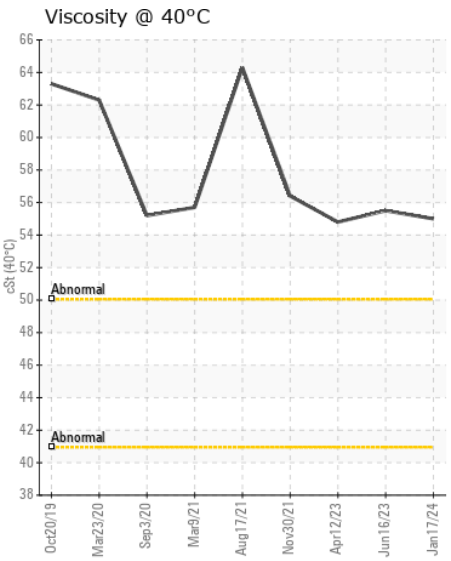



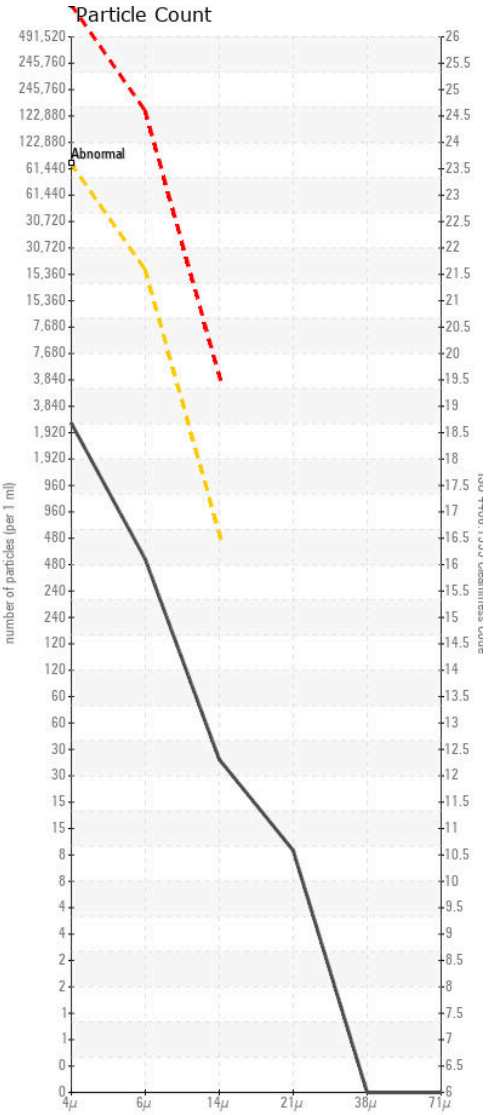



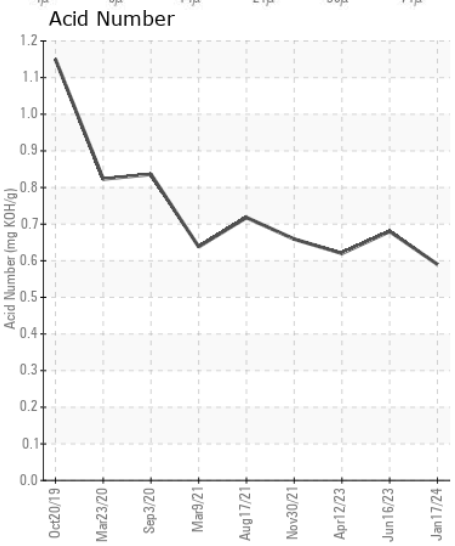





**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513
**Sample No.** : JR0198847 **Recieved** : 19 Jan 2024
**Lab Number** : 06065512 **Diagnosed** : 23 Jan 2024
**Unique Number** : 10836894 **Diagnostician** : Don Baldridge
**Test Package** : CONST ( Additional Tests: PQ )

Certificate L2367

*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)*

**JRE - CHARLOTTE**
9550 STATESVILLE ROAD
CHARLOTTE, NC
US 28269
Contact: CHARLOTTE SHOP
myoung@jamesriverequipment.com
T: (704)597-0211
F: (704)596-6198