MOB

James River Equipment

OIL ANALYSIS REPORT

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

Area
**[W8742]**
Machine Id
**JOHN DEERE 260E 1DW260ETJNF716100**
Component
**Rear Differential**
Fluid
**JOHN DEERE HY-GARD HYD/TRANS (10 GAL)**

## RECOMMENDATION

No corrective action is recommended at this time. The oil change at the time of sampling has been noted. Resample at the next service interval to monitor. ( Customer Sample Comment: W8742 )

## WEAR

The copper level is abnormal. 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

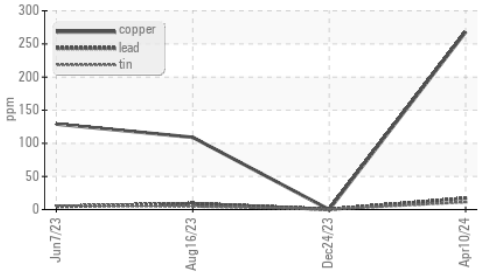
The condition of the oil is acceptable for the time in service.

| Test | UOM | Method | Limit/Abn | Current | History1 | History2 |
|---|---|---|---|---|---|---|
| Sample Number | | Client Info | | JR0197180 | JR0194521 | JR0182680 |
| Sample Date | | Client Info | | 10 Apr 2024 | 24 Dec 2023 | 16 Aug 2023 |
| Machine Age | hrs | Client Info | | 2248 | 1752 | 1016 |
| Oil Age | hrs | Client Info | | 2248 | 0 | 0 |
| Filter Age | hrs | Client Info | | 1200 | 0 | 0 |
| Oil Changed | | Client Info | | Changed | N/A | N/A |
| Filter Changed | | Client Info | | Changed | N/A | N/A |
| Sample Status | | | | ABNORMAL | NORMAL | ABNORMAL |
| PQ | | ASTM D8184 | | 352 | 12 | 124 |
| Iron | ppm | ASTM D5185m | >500 | 488 | 0 | 196 |
| Chromium | ppm | ASTM D5185m | >10 | 3 | 0 | 2 |
| Nickel | ppm | ASTM D5185m | >10 | 7 | 0 | 4 |
| Titanium | ppm | ASTM D5185m | | 0 | 0 | <1 |
| Silver | ppm | ASTM D5185m | | 0 | 0 | 0 |
| Aluminum | ppm | ASTM D5185m | >25 | 5 | <1 | 6 |
| Lead | ppm | ASTM D5185m | >25 | 17 | <1 | 9 |
| Copper | ppm | ASTM D5185m | >100 | ▲ 268 | 0 | ▲ 109 |
| Tin | ppm | ASTM D5185m | >10 | 11 | 0 | 5 |
| 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 | >75 | 25 | 5 | 17 |
| Potassium | ppm | ASTM D5185m | >20 | 0 | 0 | 0 |
| Water | | WC Method | >.2 | NEG | NEG | NEG |
| Silt | scalar | *Visual | NONE | LIGHT | 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 | >.2 | NEG | NEG | NEG |
| Sodium | ppm | ASTM D5185m | | 16 | 0 | 10 |
| Boron | ppm | ASTM D5185m | 6 | 73 | 48 | 71 |
| Barium | ppm | ASTM D5185m | 0 | 2 | 0 | 0 |
| Molybdenum | ppm | ASTM D5185m | 0 | 24 | 39 | 24 |
| Manganese | ppm | ASTM D5185m | | 26 | 0 | 19 |
| Magnesium | ppm | ASTM D5185m | 145 | 133 | 217 | 139 |
| Calcium | ppm | ASTM D5185m | 3570 | 3355 | 2864 | 3407 |
| Phosphorus | ppm | ASTM D5185m | 1290 | 1099 | 1014 | 1064 |
| Zinc | ppm | ASTM D5185m | 1640 | 1315 | 1190 | 1313 |
| Sulfur | ppm | ASTM D5185m | | 4143 | 3338 | 3999 |
| Visc @ 40°C | cSt | ASTM D445 | 57.0 | 58.0 | 64.9 | 60.0 |

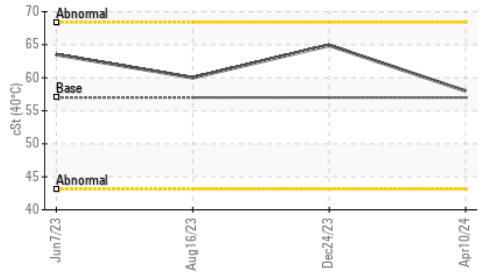
Report Id: RWMFAY [WUSCAR] 06147627 (Generated: 04/16/2024 13:08:36) Rev: 1

Submitted By: Justin Jackson

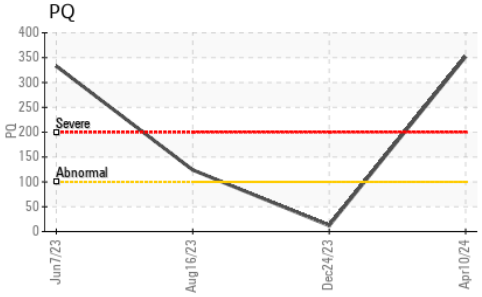
Non-ferrous Metals



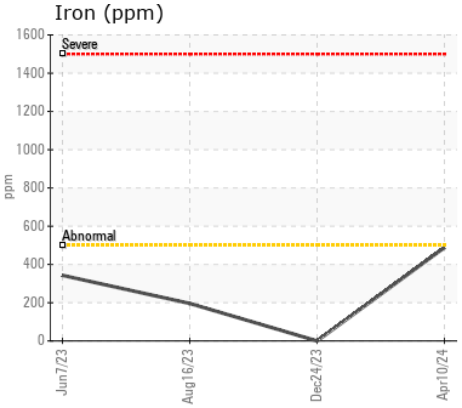

Viscosity @ 40°C



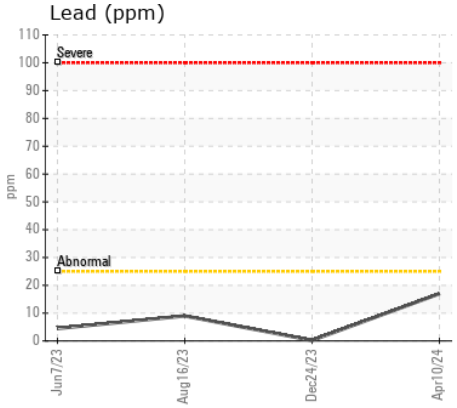

PQ



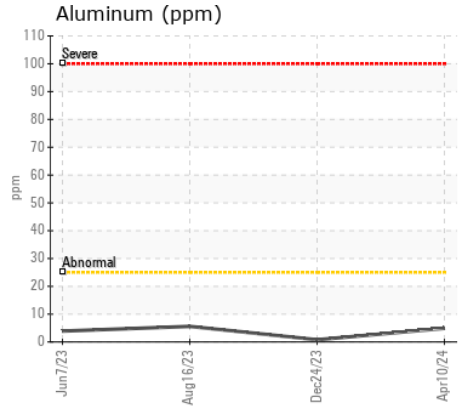

Iron (ppm)



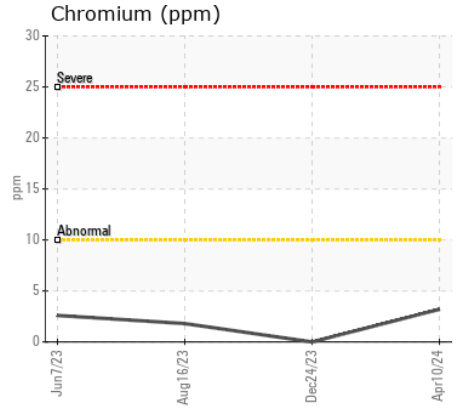

Lead (ppm)



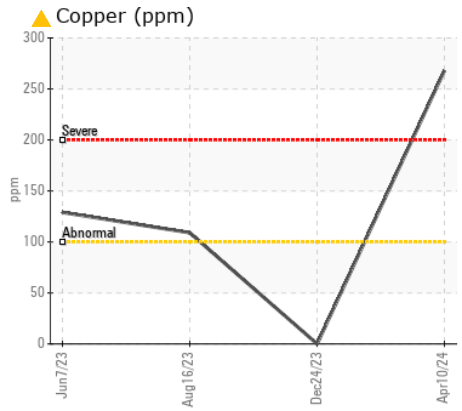

Aluminum (ppm)



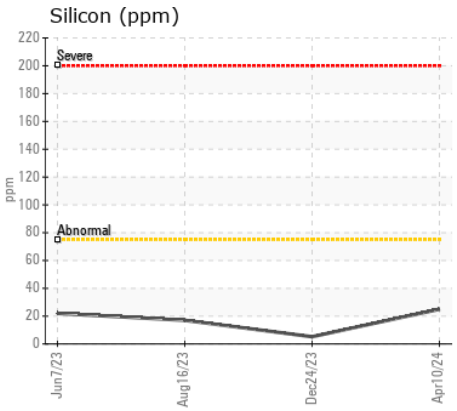

Chromium (ppm)



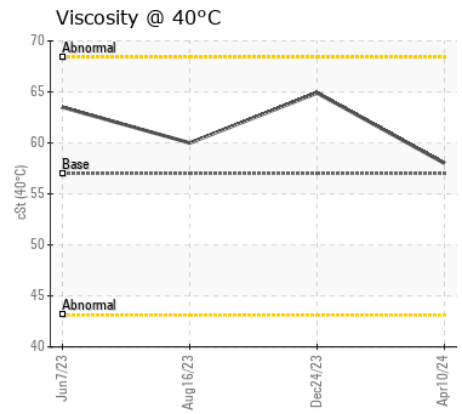

Copper (ppm)



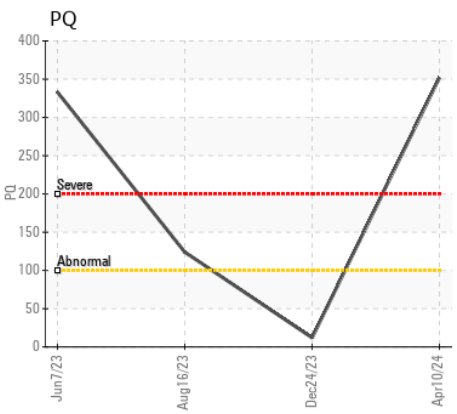

Silicon (ppm)




Viscosity @ 40°C




PQ




Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513
**Sample No.** : JR0197180
**Lab Number** : 06147627
**Unique Number** : 10977705
**Test Package** : MOBCE ( Additional Tests: PQ )

**Received** : 12 Apr 2024
**Tested** : 15 Apr 2024
**Diagnosed** : 16 Apr 2024 - Don Baldridge

*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 - HOPE MILLS/FAYETTEVILLE**
5039 HWY 301 SOUTH
HOPE MILLS, NC
US 28348
Contact: FAYETTEVILLE SHOP
stephen.mullis@jamesriverequipment.com;canastasio@wearcheck.com
T:
F: