



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



Machine Id
JOHN DEERE 644K 1DW644KPCA0630483
Component
Transmission
Fluid
JOHN DEERE HY-GARD HYD/TRANS (6 GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

| Test | UOM | Method | Limit/Abn | Current | History1 | History2 |
|----------------|-----|-------------|-----------|--------------------|-------------|----------|
| Sample Number | | Client Info | | JR0213085 | JRMC252346 | --- |
| Sample Date | | Client Info | | 30 May 2024 | 15 Aug 2011 | --- |
| Machine Age | hrs | Client Info | | 26437 | 2534 | --- |
| Oil Age | hrs | Client Info | | 0 | 2534 | --- |
| Filter Age | hrs | Client Info | | 0 | 2534 | --- |
| Oil Changed | | Client Info | | N/A | Changed | --- |
| Filter Changed | | Client Info | | N/A | Changed | --- |
| Sample Status | | | | NORMAL | NORMAL | --- |

WEAR

All component wear rates are normal.

| | | | | | | |
|--------------|--------|-------------|------|--------------|-------|-----|
| PQ | | ASTM D8184 | | 15 | 13.0 | --- |
| Iron | ppm | ASTM D5185m | | 19 | 40 | --- |
| Chromium | ppm | ASTM D5185m | | <1 | <1 | --- |
| Nickel | ppm | ASTM D5185m | | <1 | <1 | --- |
| Titanium | ppm | ASTM D5185m | | <1 | 0 | --- |
| Silver | ppm | ASTM D5185m | | <1 | 0 | --- |
| Aluminum | ppm | ASTM D5185m | | 4 | 1 | --- |
| Lead | ppm | ASTM D5185m | | <1 | 10 | --- |
| Copper | ppm | ASTM D5185m | | 15 | 7 | --- |
| Tin | ppm | ASTM D5185m | | <1 | 0 | --- |
| Vanadium | ppm | ASTM D5185m | | <1 | 0 | --- |
| White Metal | scalar | *Visual | NONE | NONE | LIGHT | --- |
| Yellow Metal | scalar | *Visual | NONE | NONE | NONE | --- |

CONTAMINATION

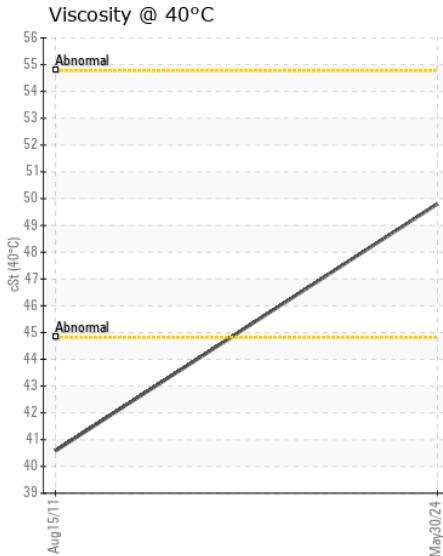
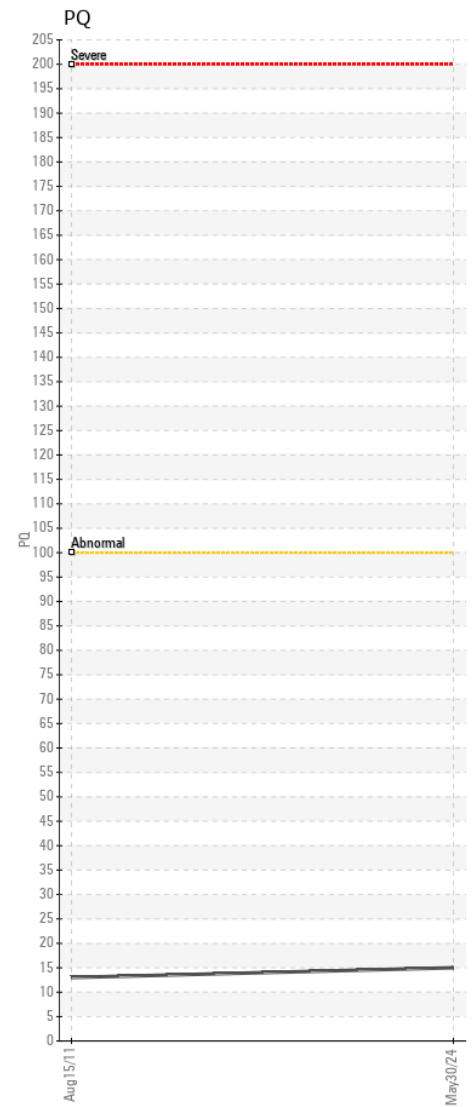
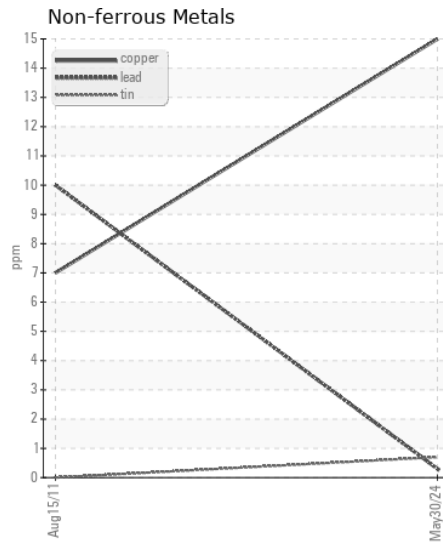
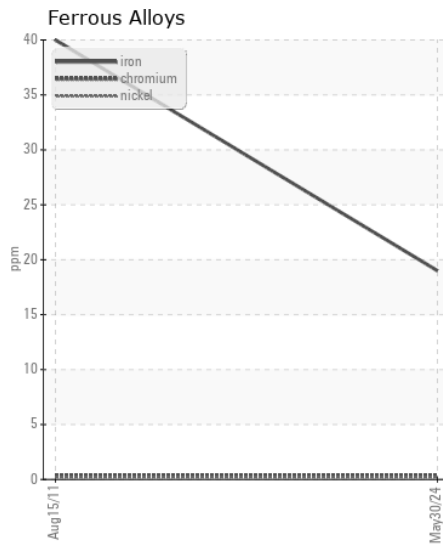
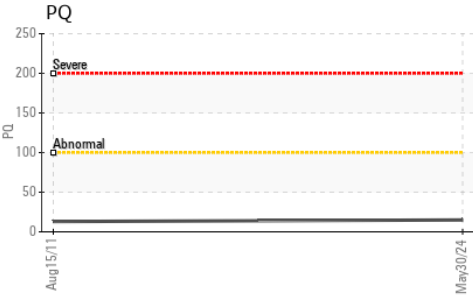
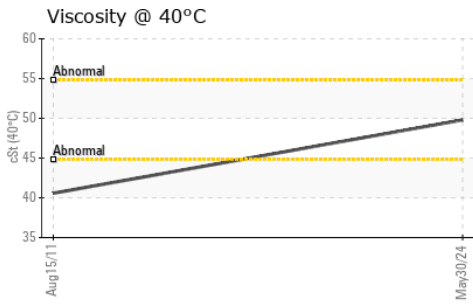
There is no indication of any contamination in the component.

| | | | | | | |
|------------------|--------|-------------|-------|--------------|-------|-----|
| Silicon | ppm | ASTM D5185m | | 9 | 28 | --- |
| Potassium | ppm | ASTM D5185m | >20 | 3 | 4 | --- |
| Water | | WC Method | | NEG | NEG | --- |
| Silt | scalar | *Visual | NONE | MODER | NONE | --- |
| Debris | scalar | *Visual | NONE | NONE | LIGHT | --- |
| Sand/Dirt | scalar | *Visual | NONE | NONE | NONE | --- |
| Appearance | scalar | *Visual | NORML | NORML | NORML | --- |
| Odor | scalar | *Visual | NORML | NORML | NORML | --- |
| Emulsified Water | scalar | *Visual | | NEG | NEG | --- |

FLUID CONDITION

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

| | | | | | | |
|-------------|-----|-------------|--|--------------|-------|-----|
| Sodium | ppm | ASTM D5185m | | 0 | 23 | --- |
| Boron | ppm | ASTM D5185m | | 5 | 2 | --- |
| Barium | ppm | ASTM D5185m | | 2 | <1 | --- |
| Molybdenum | ppm | ASTM D5185m | | 3 | <1 | --- |
| Manganese | ppm | ASTM D5185m | | <1 | <1 | --- |
| Magnesium | ppm | ASTM D5185m | | 100 | 79 | --- |
| Calcium | ppm | ASTM D5185m | | 3613 | 3065 | --- |
| Phosphorus | ppm | ASTM D5185m | | 1221 | 1151 | --- |
| Zinc | ppm | ASTM D5185m | | 1346 | 1159 | --- |
| Sulfur | ppm | ASTM D5185m | | 4213 | 3309 | --- |
| Visc @ 40°C | cSt | ASTM D445 | | 49.8 | 40.58 | --- |



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : JR0213085 **Received** : 31 May 2024
Lab Number : 06196903 **Tested** : 03 Jun 2024
Unique Number : 11059026 **Diagnosed** : 03 Jun 2024 - Sean Felton
Test Package : CONST (Additional Tests: PQ)

JRE - GREENSBORO
 411 SOUTH REGIONAL ROAD
 GREENSBORO, NC
 US 27409
 Contact: NICK GALLAHER
 NGALLAHER@JRENET.COM
 T: (336)668-2762
 F: (336)665-9556

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)