



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



Area

[W50900]

Machine Id

JOHN DEERE 310E OT-6 (S/N 1DW310EXJMF711144)

Component

Rear Rear Differential

Fluid

{not provided} (--- GAL)

RECOMMENDATION

The oil change at the time of sampling has been noted. Resample at the next service interval to monitor.

| Test | UOM | Method | Limit/Abn | Current | History1 | History2 |
|----------------|-----|-------------|-----------|--------------------|----------|----------|
| Sample Number | | Client Info | | JR0142173 | --- | --- |
| Sample Date | | Client Info | | 11 Oct 2022 | --- | --- |
| Machine Age | hrs | Client Info | | 769 | --- | --- |
| Oil Age | hrs | Client Info | | 500 | --- | --- |
| Filter Age | hrs | Client Info | | 500 | --- | --- |
| Oil Changed | | Client Info | | Changed | --- | --- |
| Filter Changed | | Client Info | | Changed | --- | --- |
| Sample Status | | | | NORMAL | --- | --- |

WEAR

Metal levels are typical for a new component breaking in.

| | | | | | | |
|--------------|--------|-------------|------|--------------|-----|-----|
| PQ | | ASTM D8184 | | 252 | --- | --- |
| Iron | ppm | ASTM D5185m | >500 | 273 | --- | --- |
| Chromium | ppm | ASTM D5185m | >10 | 3 | --- | --- |
| Nickel | ppm | ASTM D5185m | | 6 | --- | --- |
| Titanium | ppm | ASTM D5185m | | 1 | --- | --- |
| Silver | ppm | ASTM D5185m | | <1 | --- | --- |
| Aluminum | ppm | ASTM D5185m | >25 | 12 | --- | --- |
| Lead | ppm | ASTM D5185m | >25 | 6 | --- | --- |
| Copper | ppm | ASTM D5185m | >100 | 165 | --- | --- |
| Tin | ppm | ASTM D5185m | >10 | 6 | --- | --- |
| Vanadium | ppm | ASTM D5185m | | <1 | --- | --- |
| White Metal | scalar | *Visual | NONE | LIGHT | --- | --- |
| Yellow Metal | scalar | *Visual | NONE | NONE | --- | --- |

CONTAMINATION

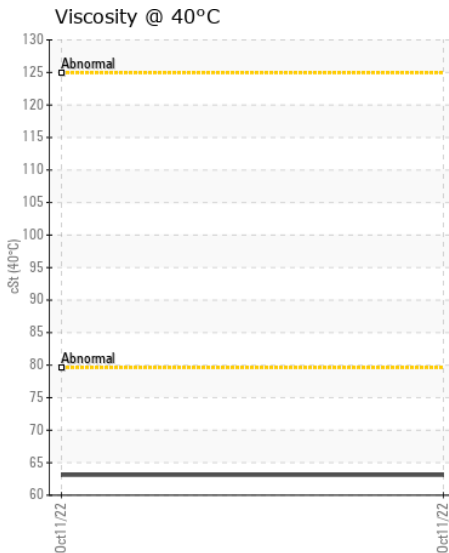
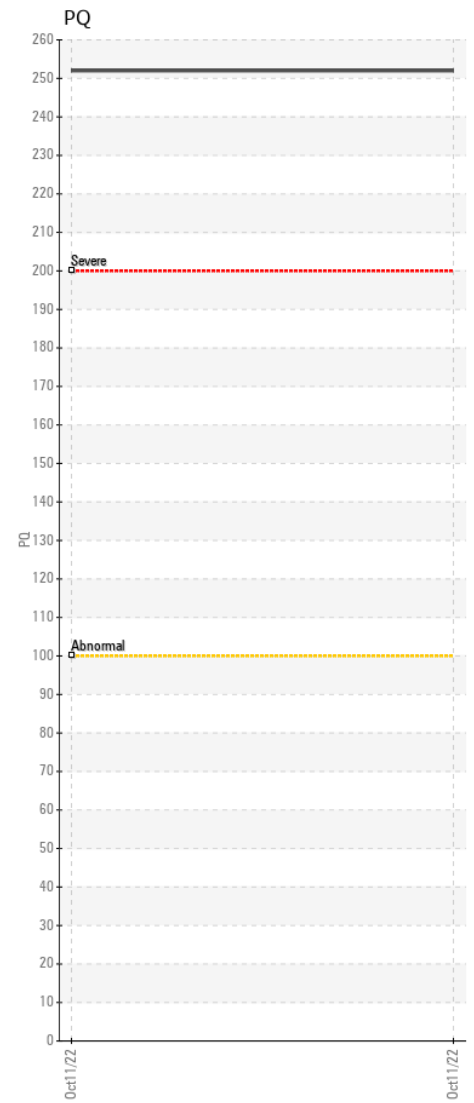
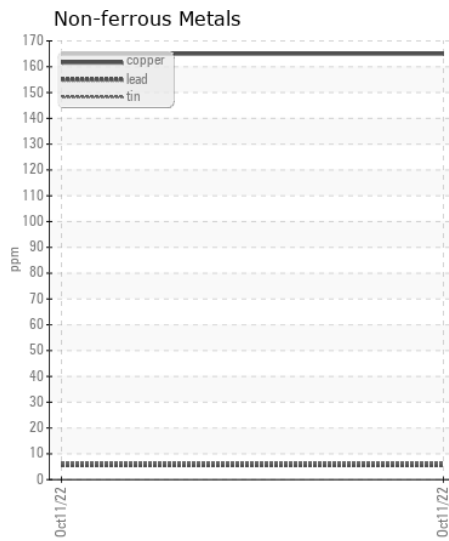
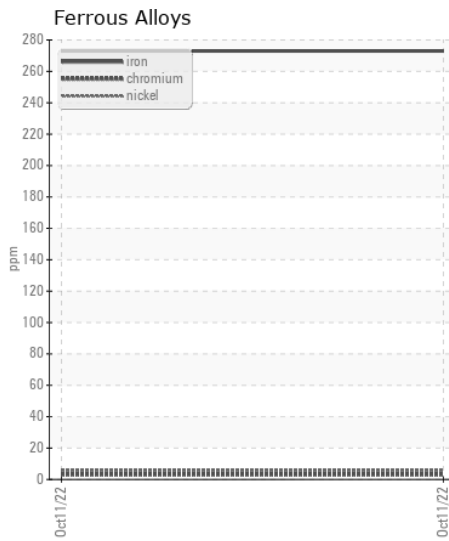
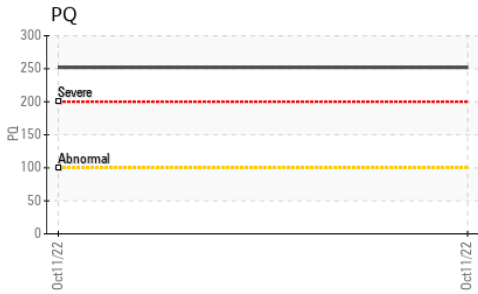
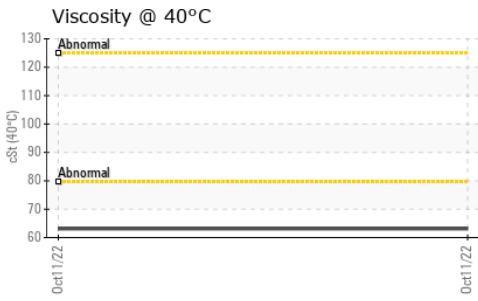
There is no indication of any contamination in the oil.

| | | | | | | |
|------------------|--------|-------------|-------|--------------|-----|-----|
| Silicon | ppm | ASTM D5185m | >75 | 31 | --- | --- |
| Potassium | ppm | ASTM D5185m | >20 | 0 | --- | --- |
| Water | | WC Method | >.2 | NEG | --- | --- |
| Silt | scalar | *Visual | NONE | NONE | --- | --- |
| Debris | scalar | *Visual | NONE | NONE | --- | --- |
| Sand/Dirt | scalar | *Visual | NONE | NONE | --- | --- |
| Appearance | scalar | *Visual | NORML | NORML | --- | --- |
| Odor | scalar | *Visual | NORML | NORML | --- | --- |
| Emulsified Water | scalar | *Visual | >.2 | NEG | --- | --- |

FLUID CONDITION

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

| | | | | | | |
|-------------|-----|-------------|--|--------------|-----|-----|
| Sodium | ppm | ASTM D5185m | | 21 | --- | --- |
| Boron | ppm | ASTM D5185m | | 113 | --- | --- |
| Barium | ppm | ASTM D5185m | | 0 | --- | --- |
| Molybdenum | ppm | ASTM D5185m | | 1 | --- | --- |
| Manganese | ppm | ASTM D5185m | | 54 | --- | --- |
| Magnesium | ppm | ASTM D5185m | | <1 | --- | --- |
| Calcium | ppm | ASTM D5185m | | 3670 | --- | --- |
| Phosphorus | ppm | ASTM D5185m | | 1199 | --- | --- |
| Zinc | ppm | ASTM D5185m | | 1517 | --- | --- |
| Sulfur | ppm | ASTM D5185m | | 4021 | --- | --- |
| Visc @ 40°C | cSt | ASTM D445 | | 63.1 | --- | --- |



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513

Sample No. : JR0142173

Lab Number : 05667253

Unique Number : 10176823

Test Package : CONST (Additional Tests: PQ)

Received : 14 Oct 2022

Tested : 17 Oct 2022

Diagnosed : 17 Oct 2022 - Don Baldrige

KEVIN RICHARDSON GRADING

151 BRICKYARD RD

MOUNT HOLLY, NC

US 28120

Contact: B HELMS

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T:

F:

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)