



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

Area

[W20714-HOLLYWOOD]

Machine Id

JOHN DEERE 5100E 1LV5100ETFY440461

Component

Hydraulic System

Fluid

JOHN DEERE HY-GARD HYD/TRANS (--- GAL)

RECOMMENDATION

We recommend you service the filters on this component. We recommend an early resample to monitor this condition.

| Test | UOM | Method | Limit/Abn | Current | History1 | History2 |
|----------------|-----|-------------|-----------|-------------|----------|----------|
| Sample Number | | Client Info | | JR0196626 | --- | --- |
| Sample Date | | Client Info | | 08 Jan 2024 | --- | --- |
| Machine Age | hrs | Client Info | | 1638 | --- | --- |
| Oil Age | hrs | Client Info | | 1638 | --- | --- |
| Filter Age | hrs | Client Info | | 1638 | --- | --- |
| Oil Changed | | Client Info | | Not Chngd | --- | --- |
| Filter Changed | | Client Info | | Not Chngd | --- | --- |
| Sample Status | | | | ABNORMAL | --- | --- |

WEAR

The iron level is abnormal. All other metal levels are typical for a new component breaking in. Iron level high for break in.

| PQ | UOM | Method | Limit/Abn | Current | History1 | History2 |
|--------------|--------|-------------|-----------|---------|----------|----------|
| Iron | ppm | ASTM D5185m | >20 | ▲ 279 | --- | --- |
| Chromium | ppm | ASTM D5185m | >10 | 1 | --- | --- |
| Nickel | ppm | ASTM D5185m | >10 | 0 | --- | --- |
| Titanium | ppm | ASTM D5185m | | <1 | --- | --- |
| Silver | ppm | ASTM D5185m | | <1 | --- | --- |
| Aluminum | ppm | ASTM D5185m | >10 | 2 | --- | --- |
| Lead | ppm | ASTM D5185m | >10 | 3 | --- | --- |
| Copper | ppm | ASTM D5185m | >75 | 101 | --- | --- |
| Tin | ppm | ASTM D5185m | >10 | 2 | --- | --- |
| Vanadium | ppm | ASTM D5185m | | 0 | --- | --- |
| White Metal | scalar | *Visual | NONE | NONE | --- | --- |
| Yellow Metal | scalar | *Visual | NONE | LIGHT | --- | --- |

CONTAMINATION

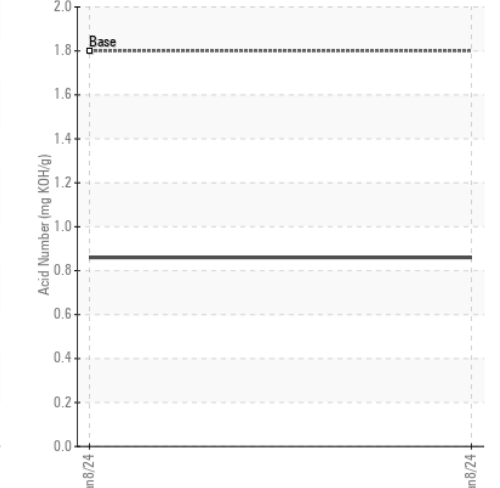
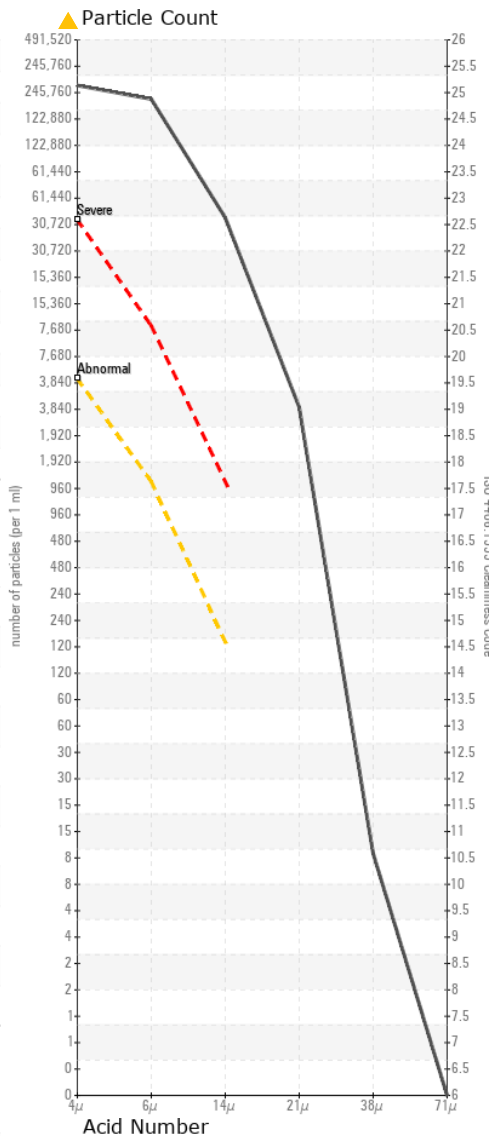
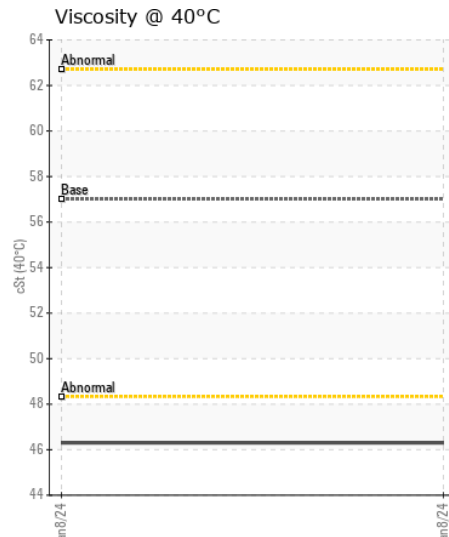
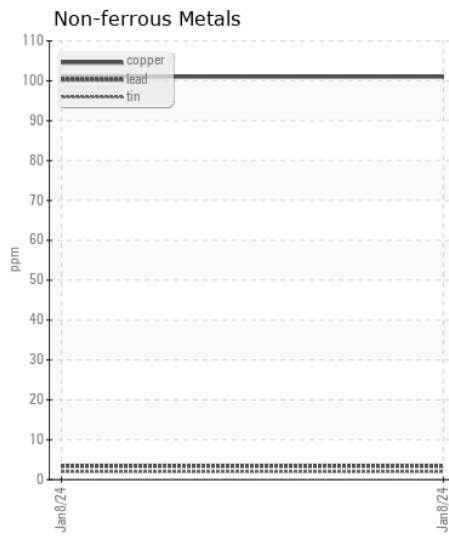
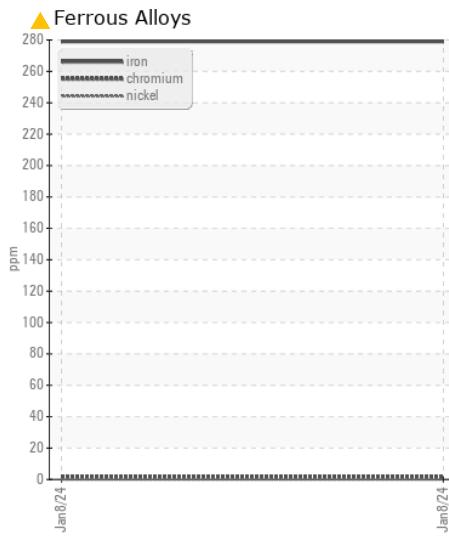
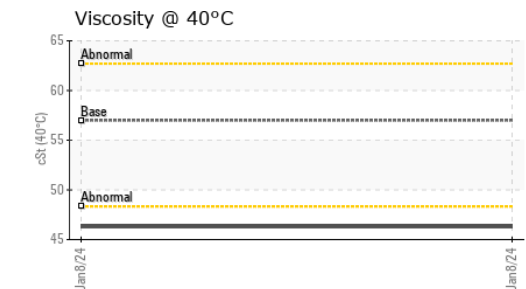
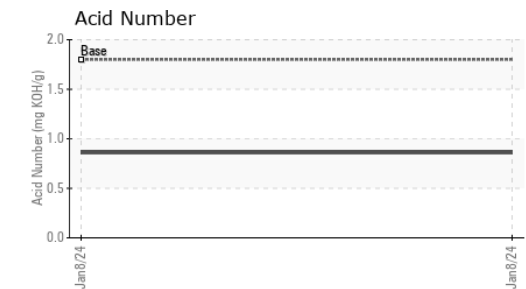
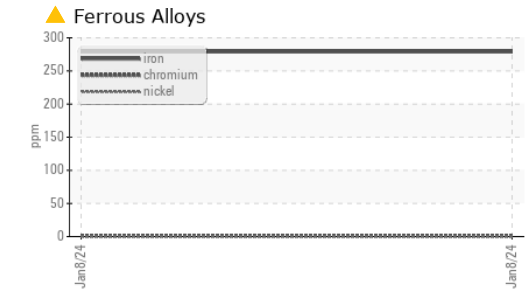
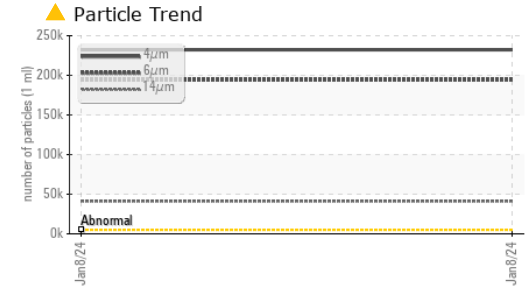
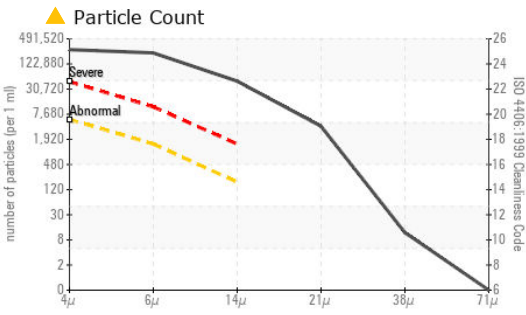
There is a high amount of particulates present in the oil.

| | | | | | | |
|------------------|--------|--------------|-----------|------------|-----|-----|
| Silicon | ppm | ASTM D5185m | >20 | 11 | --- | --- |
| Potassium | ppm | ASTM D5185m | >20 | 4 | --- | --- |
| Water | | WC Method | >0.1 | NEG | --- | --- |
| Particles >4µm | | ASTM D7647 | >5000 | ▲ 232235 | --- | --- |
| Particles >6µm | | ASTM D7647 | >1300 | ▲ 194240 | --- | --- |
| Particles >14µm | | ASTM D7647 | >160 | ▲ 41149 | --- | --- |
| Particles >21µm | | ASTM D7647 | >40 | ▲ 3442 | --- | --- |
| Particles >38µm | | ASTM D7647 | >10 | 10 | --- | --- |
| Particles >71µm | | ASTM D7647 | >3 | 0 | --- | --- |
| Oil Cleanliness | | ISO 4406 (c) | >19/17/14 | ▲ 25/25/23 | --- | --- |
| Silt | scalar | *Visual | NONE | LIGHT | --- | --- |
| 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 | >0.1 | NEG | --- | --- |

FLUID CONDITION

The AN level is acceptable for this fluid.

| | | | | | | |
|------------------|----------|-------------|------|------|-----|-----|
| Sodium | ppm | ASTM D5185m | | 0 | --- | --- |
| Boron | ppm | ASTM D5185m | 6 | 22 | --- | --- |
| Barium | ppm | ASTM D5185m | 0 | 0 | --- | --- |
| Molybdenum | ppm | ASTM D5185m | 0 | 4 | --- | --- |
| Manganese | ppm | ASTM D5185m | | 4 | --- | --- |
| Magnesium | ppm | ASTM D5185m | 145 | 52 | --- | --- |
| Calcium | ppm | ASTM D5185m | 3570 | 2556 | --- | --- |
| Phosphorus | ppm | ASTM D5185m | 1290 | 905 | --- | --- |
| Zinc | ppm | ASTM D5185m | 1640 | 1106 | --- | --- |
| Sulfur | ppm | ASTM D5185m | | 3895 | --- | --- |
| Acid Number (AN) | mg KOH/g | ASTM D8045 | 1.8 | 0.86 | --- | --- |
| Visc @ 40°C | cSt | ASTM D445 | 57.0 | 46.3 | --- | --- |



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : JR0196626 **Received** : 12 Jan 2024
Lab Number : 06060141 **Diagnosed** : 16 Jan 2024
Unique Number : 10831523 **Diagnostician** : Don Baldrige
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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