



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



Machine Id
JOHN DEERE 200C FF200CX508161

Component
Hydraulic System

Fluid
{not provided} (--- GAL)

RECOMMENDATION

Recommend drain oil if not already done. Reduce drain interval to 2000 hours or drain and flush and use recommended zinc free oil.

| Test | UOM | Method | Limit/Abn | Current | History1 | History2 |
|----------------|-----|-------------|-----------|--------------------|----------|----------|
| Sample Number | | Client Info | | JR0200816 | --- | --- |
| Sample Date | | Client Info | | 22 Feb 2024 | --- | --- |
| Machine Age | hrs | Client Info | | 6680 | --- | --- |
| Oil Age | hrs | Client Info | | 6680 | --- | --- |
| Filter Age | hrs | Client Info | | 0 | --- | --- |
| Oil Changed | | Client Info | | Not Chngd | --- | --- |
| Filter Changed | | Client Info | | Not Chngd | --- | --- |
| Sample Status | | | | ABNORMAL | --- | --- |

WEAR

All component wear rates are normal.

| | | | | | | |
|--------------|--------|-------------|------|--------------|-----|-----|
| PQ | | ASTM D8184 | >50 | 16 | --- | --- |
| Iron | ppm | ASTM D5185m | >32 | 8 | --- | --- |
| Chromium | ppm | ASTM D5185m | >9 | <1 | --- | --- |
| Nickel | ppm | ASTM D5185m | >5 | 0 | --- | --- |
| Titanium | ppm | ASTM D5185m | | 0 | --- | --- |
| Silver | ppm | ASTM D5185m | | 0 | --- | --- |
| Aluminum | ppm | ASTM D5185m | >9 | 1 | --- | --- |
| Lead | ppm | ASTM D5185m | >28 | 0 | --- | --- |
| Copper | ppm | ASTM D5185m | >50 | <1 | --- | --- |
| Tin | ppm | ASTM D5185m | >5 | <1 | --- | --- |
| Vanadium | ppm | ASTM D5185m | | 0 | --- | --- |
| White Metal | scalar | *Visual | NONE | NONE | --- | --- |
| Yellow Metal | scalar | *Visual | NONE | NONE | --- | --- |

CONTAMINATION

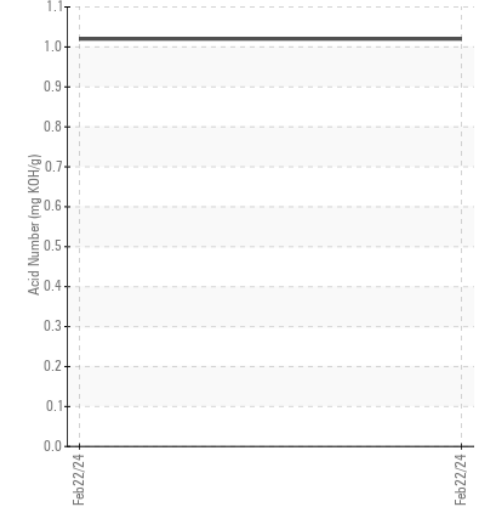
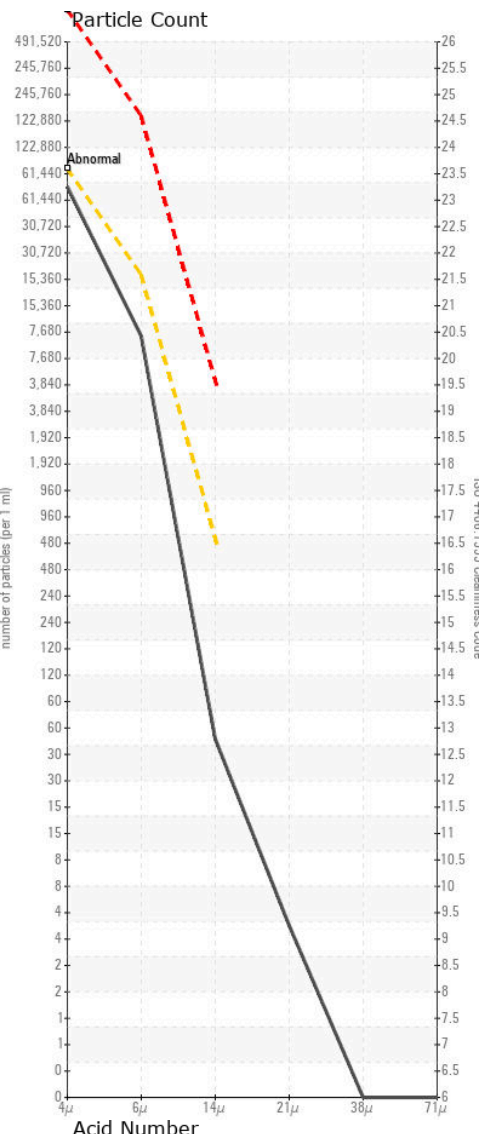
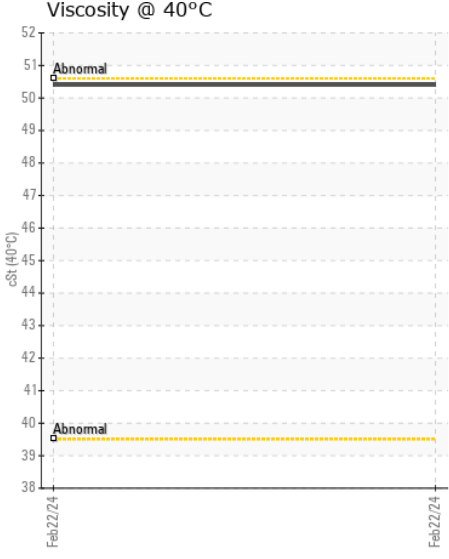
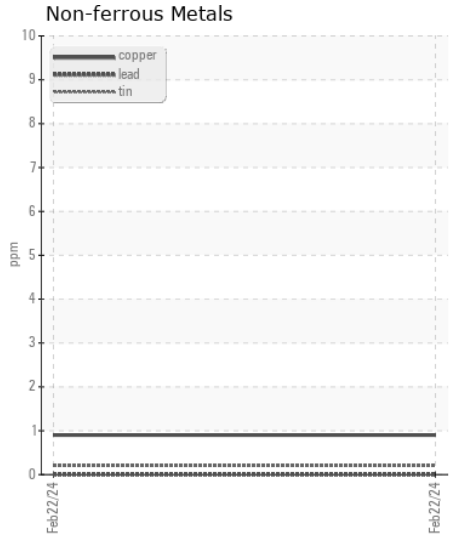
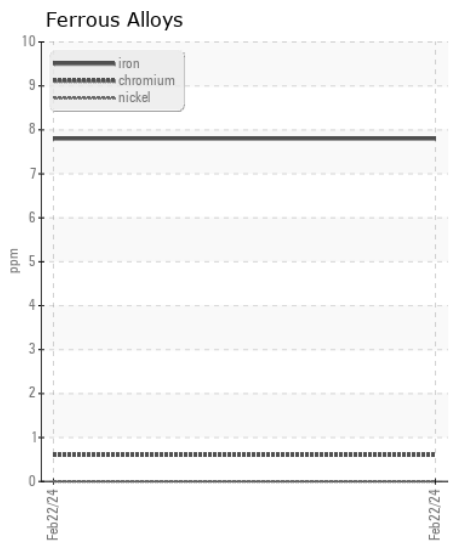
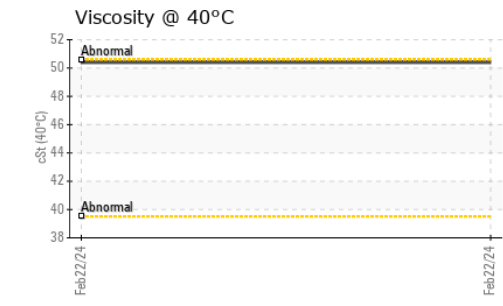
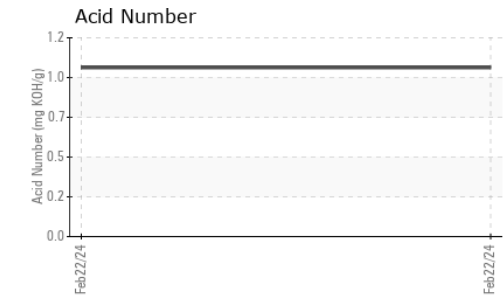
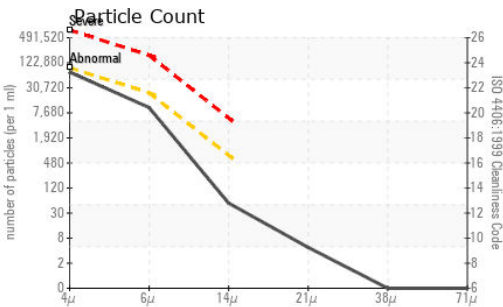
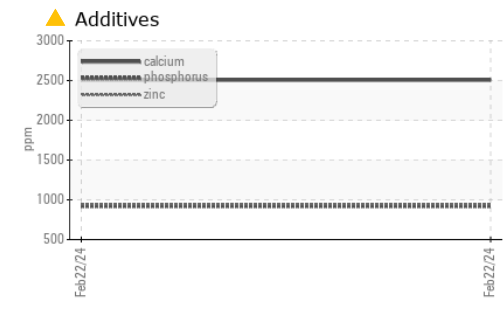
The amount and size of particulates present in the system are acceptable.

| | | | | | | |
|------------------|--------|--------------|-----------|-----------------|-----|-----|
| Silicon | ppm | ASTM D5185m | >11 | 4 | --- | --- |
| Potassium | ppm | ASTM D5185m | >20 | 0 | --- | --- |
| Water | | WC Method | >0.075 | NEG | --- | --- |
| Particles >4µm | | ASTM D7647 | >80000 | 63347 | --- | --- |
| Particles >6µm | | ASTM D7647 | >20000 | 8934 | --- | --- |
| Particles >14µm | | ASTM D7647 | >640 | 46 | --- | --- |
| Particles >21µm | | ASTM D7647 | >160 | 4 | --- | --- |
| Particles >38µm | | ASTM D7647 | >40 | 0 | --- | --- |
| Particles >71µm | | ASTM D7647 | >10 | 0 | --- | --- |
| Oil Cleanliness | | ISO 4406 (c) | >23/21/16 | 23/20/13 | --- | --- |
| 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 | >0.075 | NEG | --- | --- |

FLUID CONDITION

Zinc level above manufacturer's recommendations. The AN level is acceptable for this fluid.

| | | | | | | |
|------------------|----------|-------------|-----|--------------|-----|-----|
| Sodium | ppm | ASTM D5185m | >21 | <1 | --- | --- |
| Boron | ppm | ASTM D5185m | | 0 | --- | --- |
| Barium | ppm | ASTM D5185m | | <1 | --- | --- |
| Molybdenum | ppm | ASTM D5185m | | 0 | --- | --- |
| Manganese | ppm | ASTM D5185m | | 0 | --- | --- |
| Magnesium | ppm | ASTM D5185m | | 76 | --- | --- |
| Calcium | ppm | ASTM D5185m | | 2506 | --- | --- |
| Phosphorus | ppm | ASTM D5185m | | 920 | --- | --- |
| Zinc | ppm | ASTM D5185m | | ▲ 943 | --- | --- |
| Sulfur | ppm | ASTM D5185m | | 2528 | --- | --- |
| Acid Number (AN) | mg KOH/g | ASTM D8045 | | 1.02 | --- | --- |
| Visc @ 40°C | cSt | ASTM D445 | | 50.4 | --- | --- |



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : JR0200816 **Received** : 23 Feb 2024
Lab Number : 06099061 **Tested** : 26 Feb 2024
Unique Number : 10897291 **Diagnosed** : 26 Feb 2024 - Don Baldrige
Test Package : CONST (Additional Tests: PQ)

JRE - GREENVILLE
 3604 HIGHWAY 264 E
 GREENVILLE, NC
 US 27834-5800
 Contact: Jeffrey Moore
 jeffrey.moore@jamesriverequipment.com
 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)