



OIL ANALYSIS REPORT

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



Area
Store 3 - Norton [146629]
Machine Id
JOHN DEERE 135G 1FF135GXAJF501208
Component
Hydraulic System
Fluid
{not provided} (16 GAL)

RECOMMENDATION

Resample at the next service interval to monitor. Please specify the brand, type, and viscosity of the oil on your next sample.

| Test | UOM | Method | Limit/Abn | Current | History1 | History2 |
|----------------|-----|-------------|-----------|--------------------|-------------|-------------|
| Sample Number | | Client Info | | LEC0044783 | LEC0019585 | LEC0010969 |
| Sample Date | | Client Info | | 08 Jan 2024 | 06 May 2021 | 20 Mar 2020 |
| Machine Age | hrs | Client Info | | 1949 | 996 | 490 |
| Oil Age | hrs | Client Info | | 1949 | 996 | 490 |
| Filter Age | hrs | Client Info | | 1949 | 996 | 490 |
| Oil Changed | | Client Info | | Not Changed | Not Changed | Not Changed |
| Filter Changed | | Client Info | | Changed | Changed | Not Changed |
| Sample Status | | | | NORMAL | ABNORMAL | NORMAL |

WEAR

All component wear rates are normal.

| | | | | | | |
|--------------|--------|-------------|------|--------------|------|------|
| PQ | | ASTM D8184 | >50 | 16 | 18 | 11 |
| Iron | ppm | ASTM D5185m | >32 | 17 | 11 | 4 |
| Chromium | ppm | ASTM D5185m | >9 | <1 | <1 | <1 |
| Nickel | ppm | ASTM D5185m | >5 | 0 | <1 | 0 |
| Titanium | ppm | ASTM D5185m | | 0 | 0 | 0 |
| Silver | ppm | ASTM D5185m | | 0 | 0 | <1 |
| Aluminum | ppm | ASTM D5185m | >9 | <1 | <1 | <1 |
| Lead | ppm | ASTM D5185m | >28 | 0 | 1 | <1 |
| Copper | ppm | ASTM D5185m | >50 | <1 | 2 | 2 |
| Tin | ppm | ASTM D5185m | >5 | 0 | 2 | <1 |
| Vanadium | ppm | ASTM D5185m | | 0 | 0 | 0 |
| White Metal | scalar | *Visual | NONE | NONE | NONE | NONE |
| Yellow Metal | scalar | *Visual | NONE | NONE | NONE | NONE |

CONTAMINATION

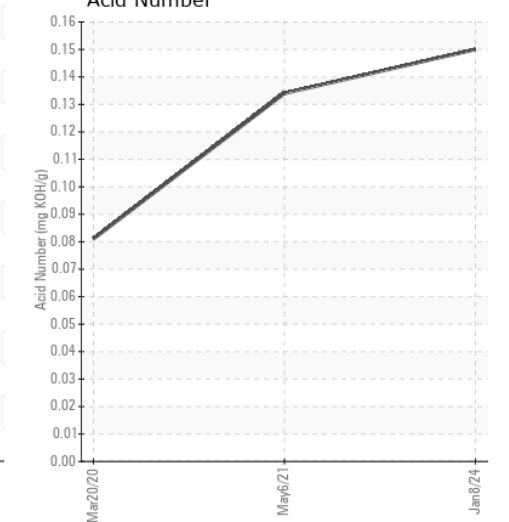
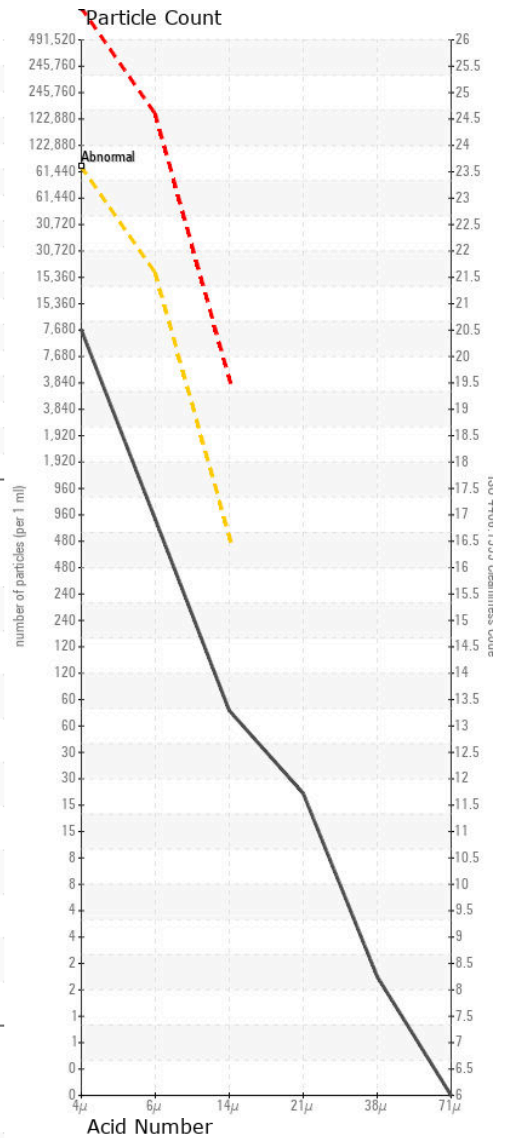
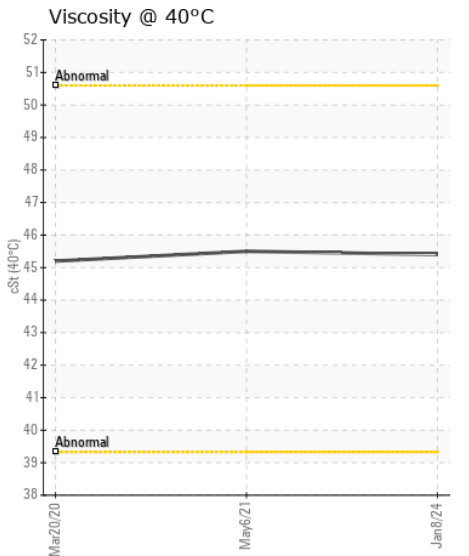
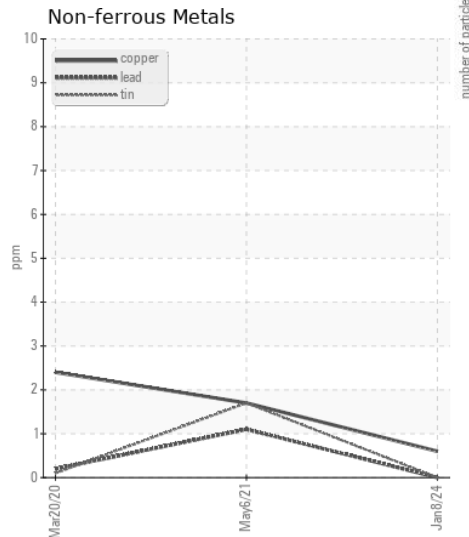
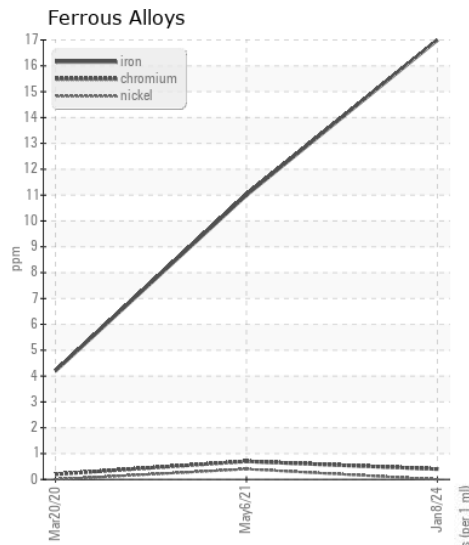
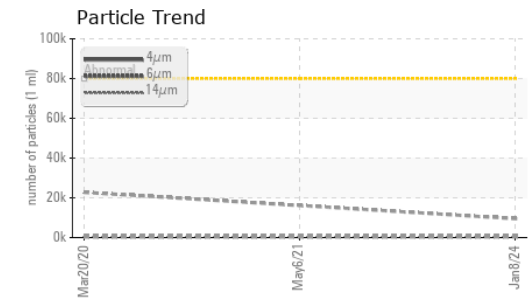
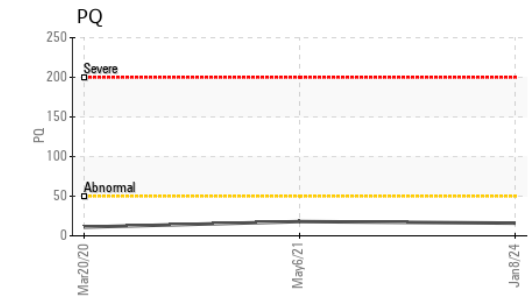
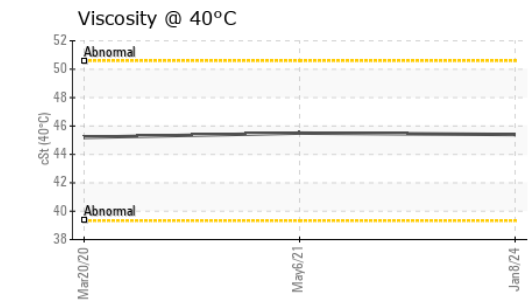
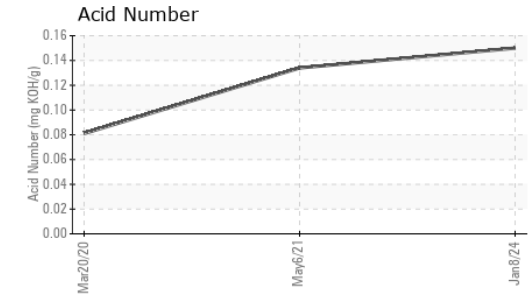
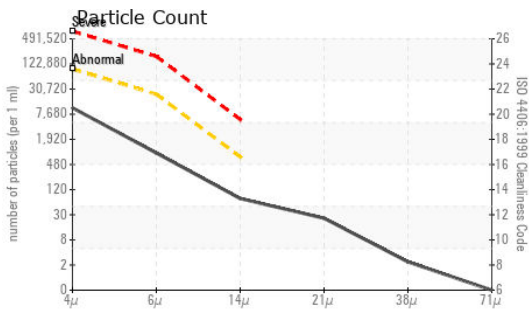
The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The system and fluid cleanliness is acceptable.

| | | | | | | |
|------------------|--------|--------------|-----------|-----------------|---------|----------|
| Silicon | ppm | ASTM D5185m | >11 | 3 | 2 | 2 |
| Potassium | ppm | ASTM D5185m | >20 | 3 | 0 | 2 |
| Water | | WC Method | >0.075 | NEG | NEG | NEG |
| Particles >4µm | | ASTM D7647 | >80000 | 9479 | --- | 22769 |
| Particles >6µm | | ASTM D7647 | >20000 | 795 | --- | 819 |
| Particles >14µm | | ASTM D7647 | >640 | 65 | --- | 17 |
| Particles >21µm | | ASTM D7647 | >160 | 22 | --- | 5 |
| Particles >38µm | | ASTM D7647 | >40 | 2 | --- | 0 |
| Particles >71µm | | ASTM D7647 | >10 | 0 | --- | 0 |
| Oil Cleanliness | | ISO 4406 (c) | >23/21/16 | 20/17/13 | --- | 22/17/11 |
| Silt | scalar | *Visual | NONE | NONE | NONE | NONE |
| Debris | scalar | *Visual | NONE | NONE | ▲ MODER | 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 | >0.075 | NEG | NEG | NEG |

FLUID CONDITION

The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

| | | | | | | |
|------------------|----------|-------------|-----|--------------|-------|-------|
| Sodium | ppm | ASTM D5185m | >21 | 2 | 2 | 0 |
| Boron | ppm | ASTM D5185m | | 0 | 0 | <1 |
| Barium | ppm | ASTM D5185m | | 0 | 0 | 1 |
| Molybdenum | ppm | ASTM D5185m | | 0 | <1 | 0 |
| Manganese | ppm | ASTM D5185m | | <1 | <1 | <1 |
| Magnesium | ppm | ASTM D5185m | | 0 | 0 | <1 |
| Calcium | ppm | ASTM D5185m | | 2 | 2 | 35 |
| Phosphorus | ppm | ASTM D5185m | | 468 | 592 | 534 |
| Zinc | ppm | ASTM D5185m | | 55 | 63 | 51 |
| Sulfur | ppm | ASTM D5185m | | 127 | 221 | 219 |
| Acid Number (AN) | mg KOH/g | ASTM D8045 | | 0.15 | 0.134 | 0.081 |
| Visc @ 40°C | cSt | ASTM D445 | | 45.4 | 45.5 | 45.2 |



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : LEC0044783 **Received** : 10 Jan 2024
Lab Number : 06056593 **Diagnosed** : 11 Jan 2024
Unique Number : 10822542 **Diagnostician** : Wes Davis
Test Package : CONST (Additional Tests: PQ)

US FOREST SERVICE
 200 SYCAMORE ST
 ELKINS, WV
 US 26241
 Contact: SERVICE MANAGER

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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F: