



PROBLEM SUMMARY



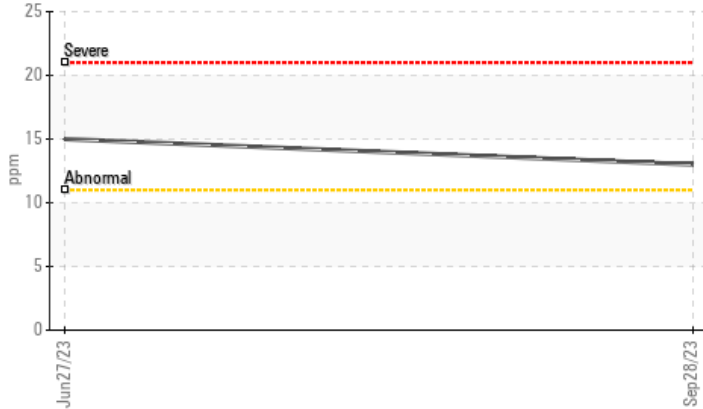
Area
Store 9 - Marietta
 Machine Id
JOHN DEERE 300G 1FF300GXLNF732086
 Component
Hydraulic System
 Fluid
HITACHI HYDRAULIC SUPER EX 46HN (77 GAL)

Sample Rating Trend



COMPONENT CONDITION SUMMARY

▲ Silicon (ppm)



RECOMMENDATION

No corrective action is recommended at this time.
 Resample at the next service interval to monitor.

PROBLEMATIC TEST RESULTS

| Sample Status | ABNORMAL | ABNORMAL | --- | | |
|---------------|----------|-----------------|------|------|-----|
| Silicon | ppm | ASTM D5185m >11 | ▲ 13 | ▲ 15 | --- |

Customer Id: LESMAROH
 Sample No.: LEC0044397
 Lab Number: 05966176
 Test Package: CONST



To manage this report scan the QR code

To discuss the diagnosis or test data:
 Don Baldrige +1
don.b505@comcast.net

To change component or sample information:
 Customer Service +1 1-800-237-1369
customerservice@wearcheck.com

RECOMMENDED ACTIONS

There are no recommended actions for this sample.

HISTORICAL DIAGNOSIS

27 Jun 2023 Diag: Don Baldrige

DIRT



No corrective action is recommended at this time. Resample at the next service interval to monitor. All component wear rates are normal. Elemental level of silicon (Si) above normal indicating ingress of seal material. The amount and size of particulates present in the system are acceptable. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

view report



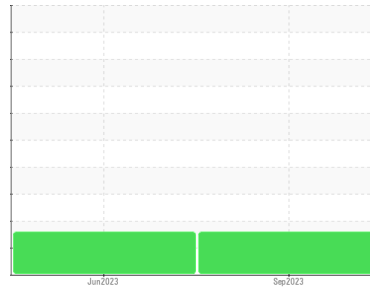


OIL ANALYSIS REPORT



Area
Store 9 - Marietta
 Machine Id
JOHN DEERE 300G 1FF300GXLNF732086
 Component
Hydraulic System
 Fluid
HITACHI HYDRAULIC SUPER EX 46HN (77 GAL)

Sample Rating Trend



DIRT



DIAGNOSIS

Recommendation

No corrective action is recommended at this time. Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

Elemental level of silicon (Si) above normal indicating ingress of seal material. The amount and size of particulates present in the system are acceptable.

Fluid Condition

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

SAMPLE INFORMATION

| | method | limit/base | current | history1 | history2 |
|---------------|-------------|-------------|--------------------|-------------|----------|
| Sample Number | Client Info | | LEC0044397 | LEC0041779 | --- |
| Sample Date | Client Info | | 28 Sep 2023 | 27 Jun 2023 | --- |
| Machine Age | hrs | Client Info | 787 | 459 | --- |
| Oil Age | hrs | Client Info | 787 | 459 | --- |
| Oil Changed | Client Info | | Not Chngd | Not Chngd | --- |
| Sample Status | | | ABNORMAL | ABNORMAL | --- |

WEAR METALS

| | method | limit/base | current | history1 | history2 |
|----------|------------|-------------|-----------|--------------|----------|
| PQ | ASTM D8184 | >50 | 19 | 14 | --- |
| Iron | ppm | ASTM D5185m | >32 | 7 | 7 |
| Chromium | ppm | ASTM D5185m | >9 | 0 | 0 |
| Nickel | ppm | ASTM D5185m | >5 | <1 | 0 |
| Titanium | ppm | ASTM D5185m | | <1 | 0 |
| Silver | ppm | ASTM D5185m | | 0 | 0 |
| Aluminum | ppm | ASTM D5185m | >9 | 4 | 4 |
| Lead | ppm | ASTM D5185m | >28 | <1 | 0 |
| Copper | ppm | ASTM D5185m | >50 | 4 | 5 |
| Tin | ppm | ASTM D5185m | >5 | 0 | 0 |
| Vanadium | ppm | ASTM D5185m | | 0 | 0 |
| Cadmium | ppm | ASTM D5185m | | 0 | 0 |

ADDITIVES

| | method | limit/base | current | history1 | history2 |
|------------|--------|-------------|---------|--------------|----------|
| Boron | ppm | ASTM D5185m | | 0 | 0 |
| Barium | ppm | ASTM D5185m | | 0 | 0 |
| Molybdenum | ppm | ASTM D5185m | | 0 | 0 |
| Manganese | ppm | ASTM D5185m | | <1 | 0 |
| Magnesium | ppm | ASTM D5185m | | <1 | 4 |
| Calcium | ppm | ASTM D5185m | | 10 | 11 |
| Phosphorus | ppm | ASTM D5185m | 827 | 507 | 501 |
| Zinc | ppm | ASTM D5185m | 0 | 32 | 28 |
| Sulfur | ppm | ASTM D5185m | 13 | 87 | 118 |

CONTAMINANTS

| | method | limit/base | current | history1 | history2 |
|-----------|--------|-------------|---------|-------------|----------|
| Silicon | ppm | ASTM D5185m | >11 | ▲ 13 | ▲ 15 |
| Sodium | ppm | ASTM D5185m | >21 | 0 | 1 |
| Potassium | ppm | ASTM D5185m | >20 | 1 | 2 |

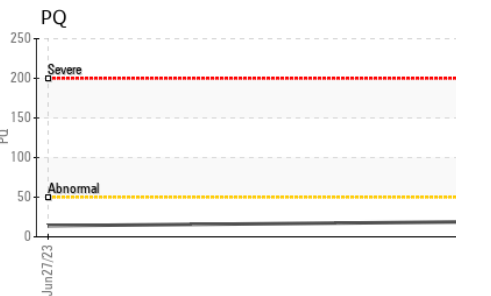
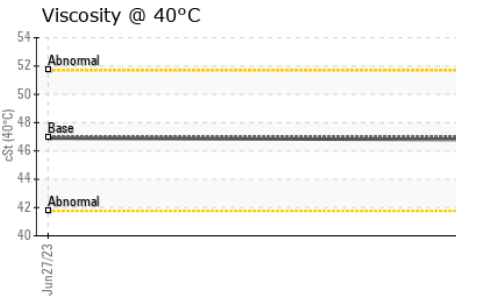
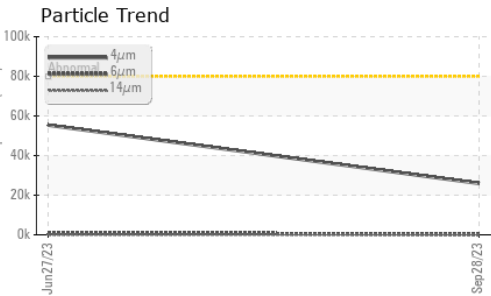
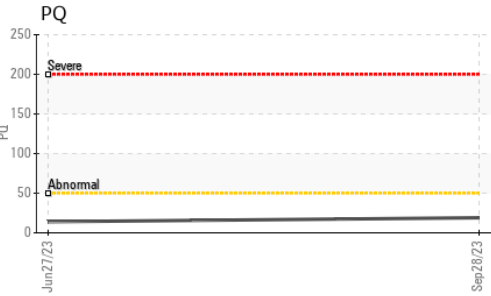
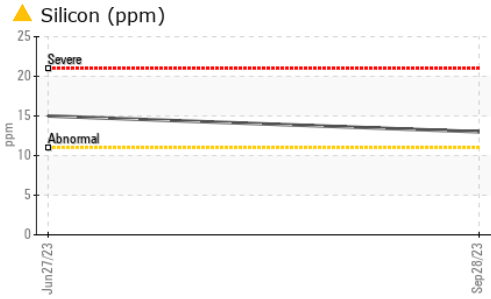
FLUID CLEANLINESS

| | method | limit/base | current | history1 | history2 |
|-----------------|--------------|------------|-----------------|----------|----------|
| Particles >4µm | ASTM D7647 | >80000 | 25911 | 55348 | --- |
| Particles >6µm | ASTM D7647 | >20000 | 170 | 1067 | --- |
| Particles >14µm | ASTM D7647 | >640 | 10 | 24 | --- |
| Particles >21µm | ASTM D7647 | >160 | 3 | 8 | --- |
| Particles >38µm | ASTM D7647 | >40 | 0 | 1 | --- |
| Particles >71µm | ASTM D7647 | >10 | 0 | 0 | --- |
| Oil Cleanliness | ISO 4406 (c) | >23/21/16 | 22/15/10 | 23/17/12 | --- |

FLUID DEGRADATION

| | method | limit/base | current | history1 | history2 |
|------------------|----------|------------|---------|-------------|----------|
| Acid Number (AN) | mg KOH/g | ASTM D8045 | 0.06 | 0.12 | 0.14 |

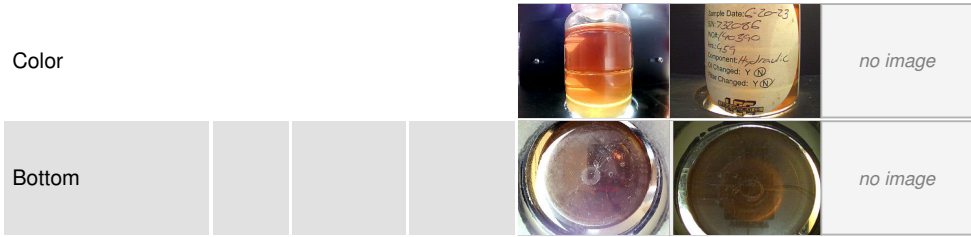
OIL ANALYSIS REPORT



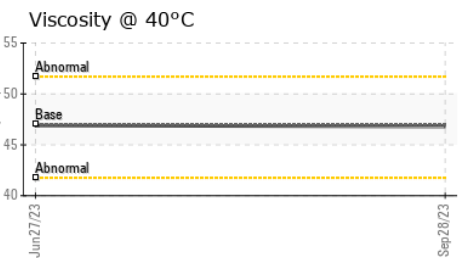
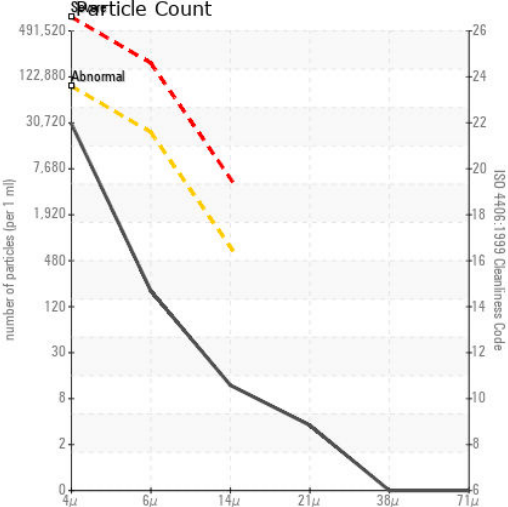
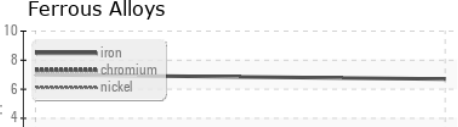
| VISUAL | method | limit/base | current | history1 | history2 |
|------------------|--------|------------|---------|----------|----------|
| White Metal | scalar | *Visual | NONE | NONE | --- |
| Yellow Metal | scalar | *Visual | NONE | NONE | --- |
| Precipitate | scalar | *Visual | NONE | NONE | --- |
| 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 | --- |
| Free Water | scalar | *Visual | | NEG | --- |

| FLUID PROPERTIES | method | limit/base | current | history1 | history2 |
|------------------|--------|--------------|---------|----------|----------|
| Visc @ 40°C | cSt | ASTM D445 47 | 46.8 | 46.9 | --- |

| SAMPLE IMAGES | method | limit/base | current | history1 | history2 |
|---------------|--------|------------|---------|----------|----------|
|---------------|--------|------------|---------|----------|----------|



GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : LEC0044397 **Received** : 02 Oct 2023
Lab Number : 05966176 **Diagnosed** : 03 Oct 2023
Unique Number : 10672727 **Diagnostician** : Don Baldridge
Test Package : CONST (Additional Tests: PQ)

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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)