



# OIL ANALYSIS REPORT

|                 |               |
|-----------------|---------------|
| WEAR            | <b>NORMAL</b> |
| CONTAMINATION   | <b>NORMAL</b> |
| FLUID CONDITION | <b>NORMAL</b> |



Area  
**Store 9 - Marietta**  
Machine Id  
**JOHN DEERE 350P 1FF350PAVPF000957**  
Component  
**Hydraulic System**  
Fluid  
**HITACHI HYDRAULIC SUPER EX 46HN (77 GAL)**

## RECOMMENDATION

Resample at the next service interval to monitor.

| Test           | UOM | Method      | Limit/Abn | Current            | History1 | History2 |
|----------------|-----|-------------|-----------|--------------------|----------|----------|
| Sample Number  |     | Client Info |           | <b>LEC0049813</b>  | ---      | ---      |
| Sample Date    |     | Client Info |           | <b>11 Jul 2024</b> | ---      | ---      |
| Machine Age    | hrs | Client Info |           | <b>635</b>         | ---      | ---      |
| Oil Age        | hrs | Client Info |           | <b>635</b>         | ---      | ---      |
| Filter Age     | hrs | Client Info |           | <b>635</b>         | ---      | ---      |
| Oil Changed    |     | Client Info |           | <b>Not Chngd</b>   | ---      | ---      |
| Filter Changed |     | Client Info |           | <b>Not Chngd</b>   | ---      | ---      |
| Sample Status  |     |             |           | <b>NORMAL</b>      | ---      | ---      |

## WEAR

All component wear rates are normal.

|              |        |             |      |              |     |     |
|--------------|--------|-------------|------|--------------|-----|-----|
| PQ           |        | ASTM D8184  | >50  | <b>19</b>    | --- | --- |
| Iron         | ppm    | ASTM D5185m | >32  | <b>3</b>     | --- | --- |
| Chromium     | ppm    | ASTM D5185m | >9   | <b>&lt;1</b> | --- | --- |
| Nickel       | ppm    | ASTM D5185m | >5   | <b>0</b>     | --- | --- |
| Titanium     | ppm    | ASTM D5185m |      | <b>&lt;1</b> | --- | --- |
| Silver       | ppm    | ASTM D5185m |      | <b>&lt;1</b> | --- | --- |
| Aluminum     | ppm    | ASTM D5185m | >9   | <b>3</b>     | --- | --- |
| Lead         | ppm    | ASTM D5185m | >28  | <b>0</b>     | --- | --- |
| Copper       | ppm    | ASTM D5185m | >50  | <b>6</b>     | --- | --- |
| Tin          | ppm    | ASTM D5185m | >5   | <b>&lt;1</b> | --- | --- |
| Vanadium     | ppm    | ASTM D5185m |      | <b>&lt;1</b> | --- | --- |
| White Metal  | scalar | *Visual     | NONE | <b>NONE</b>  | --- | --- |
| Yellow Metal | scalar | *Visual     | NONE | <b>NONE</b>  | --- | --- |

## CONTAMINATION

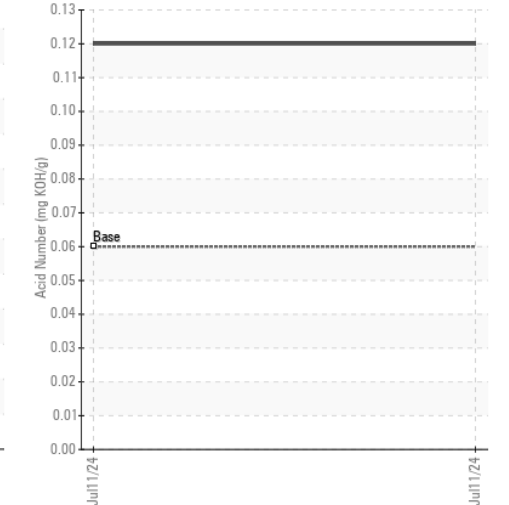
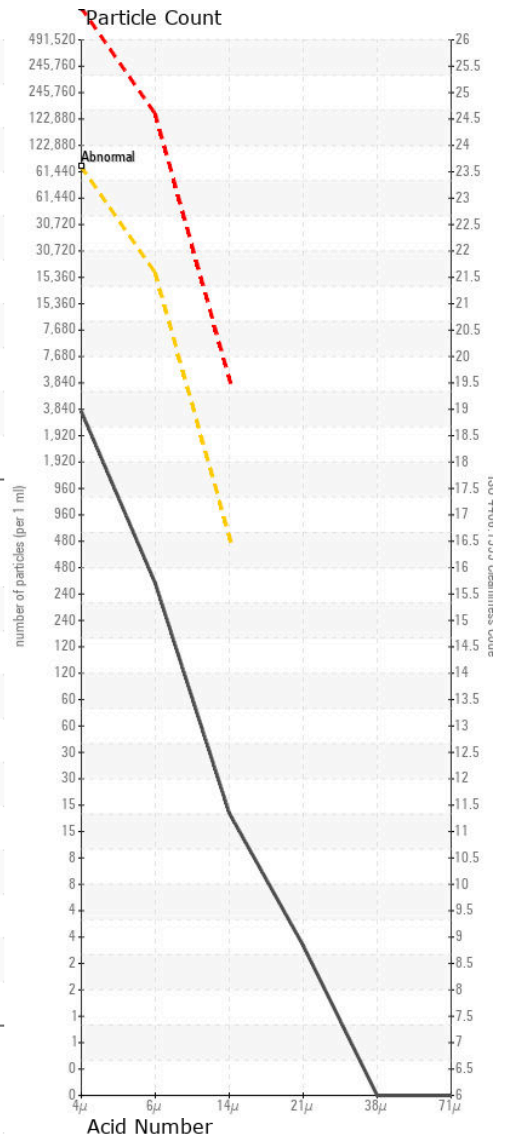
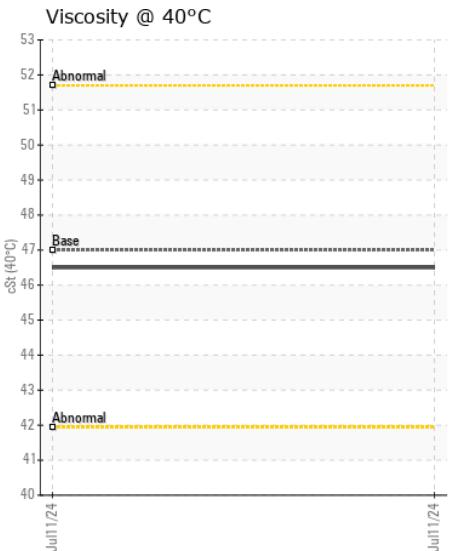
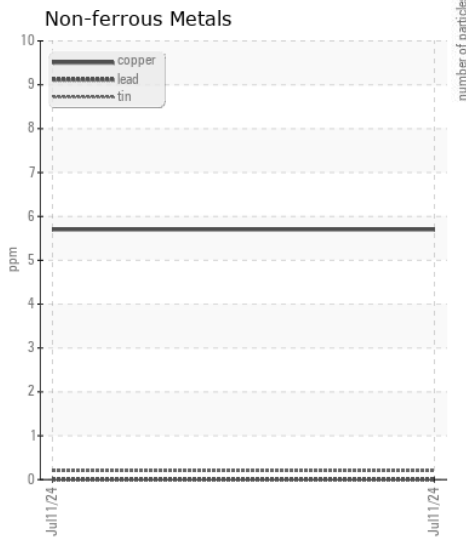
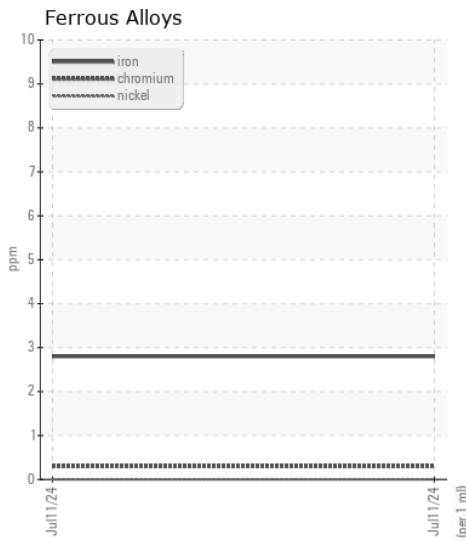
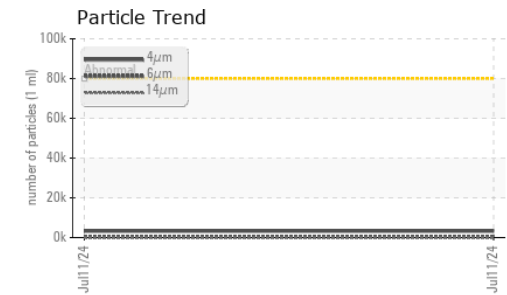
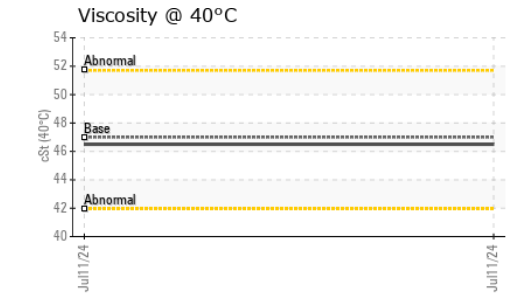
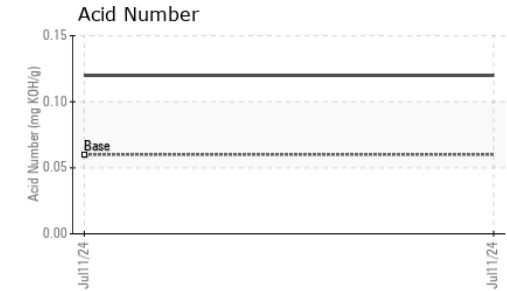
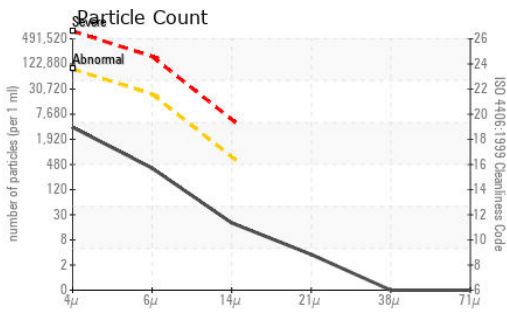
The amount and size of particulates present in the system are acceptable. There is no indication of any contamination in the oil.

|                  |        |              |           |                 |     |     |
|------------------|--------|--------------|-----------|-----------------|-----|-----|
| Silicon          | ppm    | ASTM D5185m  | >11       | <b>&lt;1</b>    | --- | --- |
| Potassium        | ppm    | ASTM D5185m  | >20       | <b>&lt;1</b>    | --- | --- |
| Water            |        | WC Method    | >0.075    | <b>NEG</b>      | --- | --- |
| Particles >4µm   |        | ASTM D7647   | >80000    | <b>3262</b>     | --- | --- |
| Particles >6µm   |        | ASTM D7647   | >20000    | <b>344</b>      | --- | --- |
| Particles >14µm  |        | ASTM D7647   | >640      | <b>17</b>       | --- | --- |
| Particles >21µm  |        | ASTM D7647   | >160      | <b>3</b>        | --- | --- |
| Particles >38µm  |        | ASTM D7647   | >40       | <b>0</b>        | --- | --- |
| Particles >71µm  |        | ASTM D7647   | >10       | <b>0</b>        | --- | --- |
| Oil Cleanliness  |        | ISO 4406 (c) | >23/21/16 | <b>19/16/11</b> | --- | --- |
| Silt             | scalar | *Visual      | NONE      | <b>NONE</b>     | --- | --- |
| Debris           | scalar | *Visual      | NONE      | <b>NONE</b>     | --- | --- |
| Sand/Dirt        | scalar | *Visual      | NONE      | <b>NONE</b>     | --- | --- |
| Appearance       | scalar | *Visual      | NORML     | <b>NORML</b>    | --- | --- |
| Odor             | scalar | *Visual      | NORML     | <b>NORML</b>    | --- | --- |
| Emulsified Water | scalar | *Visual      | >0.075    | <b>NEG</b>      | --- | --- |

## 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  | <b>0</b>     | --- | --- |
| Boron            | ppm      | ASTM D5185m |      | <b>0</b>     | --- | --- |
| Barium           | ppm      | ASTM D5185m |      | <b>&lt;1</b> | --- | --- |
| Molybdenum       | ppm      | ASTM D5185m |      | <b>0</b>     | --- | --- |
| Manganese        | ppm      | ASTM D5185m |      | <b>0</b>     | --- | --- |
| Magnesium        | ppm      | ASTM D5185m |      | <b>&lt;1</b> | --- | --- |
| Calcium          | ppm      | ASTM D5185m |      | <b>0</b>     | --- | --- |
| Phosphorus       | ppm      | ASTM D5185m | 827  | <b>459</b>   | --- | --- |
| Zinc             | ppm      | ASTM D5185m | 0    | <b>33</b>    | --- | --- |
| Sulfur           | ppm      | ASTM D5185m | 13   | <b>104</b>   | --- | --- |
| Acid Number (AN) | mg KOH/g | ASTM D8045  | 0.06 | <b>0.12</b>  | --- | --- |
| Visc @ 40°C      | cSt      | ASTM D445   | 47   | <b>46.5</b>  | --- | --- |



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
 Sample No. : LEC0049813 Received : 15 Jul 2024  
 Lab Number : 06235795 Tested : 16 Jul 2024  
 Unique Number : 11124629 Diagnosed : 16 Jul 2024 - 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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