



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



Area  
**[W68446]**  
 Machine Id  
**JOHN DEERE 450J 241146**  
 Component  
**Diesel Engine**  
 Fluid  
**{not provided} (--- 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 |           | <b>JR0193152</b>   | ---      | ---      |
| Sample Date    |     | Client Info |           | <b>24 Jun 2024</b> | ---      | ---      |
| Machine Age    | hrs | Client Info |           | <b>0</b>           | ---      | ---      |
| Oil Age        | hrs | Client Info |           | <b>0</b>           | ---      | ---      |
| Filter Age     | hrs | Client Info |           | <b>0</b>           | ---      | ---      |
| Oil Changed    |     | Client Info |           | <b>Not Changd</b>  | ---      | ---      |
| Filter Changed |     | Client Info |           | <b>Not Changd</b>  | ---      | ---      |
| Sample Status  |     |             |           | <b>NORMAL</b>      | ---      | ---      |

### WEAR

All component wear rates are normal.

|              |        |             |      |              |     |     |
|--------------|--------|-------------|------|--------------|-----|-----|
| Iron         | ppm    | ASTM D5185m | >51  | <b>21</b>    | --- | --- |
| Chromium     | ppm    | ASTM D5185m | >11  | <b>&lt;1</b> | --- | --- |
| Nickel       | ppm    | ASTM D5185m | >5   | <b>1</b>     | --- | --- |
| Titanium     | ppm    | ASTM D5185m |      | <b>&lt;1</b> | --- | --- |
| Silver       | ppm    | ASTM D5185m | >3   | <b>&lt;1</b> | --- | --- |
| Aluminum     | ppm    | ASTM D5185m | >31  | <b>10</b>    | --- | --- |
| Lead         | ppm    | ASTM D5185m | >26  | <b>3</b>     | --- | --- |
| Copper       | ppm    | ASTM D5185m | >26  | <b>15</b>    | --- | --- |
| Tin          | ppm    | ASTM D5185m | >4   | <b>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

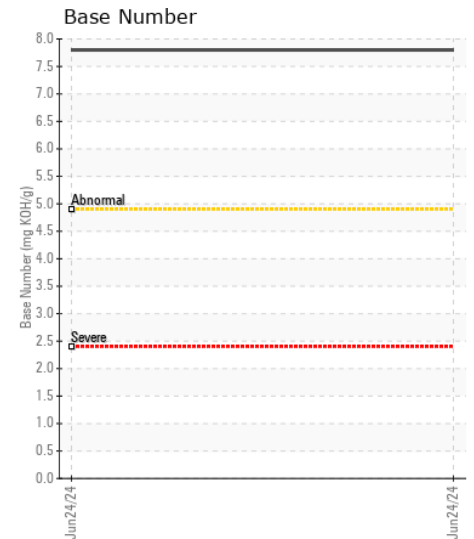
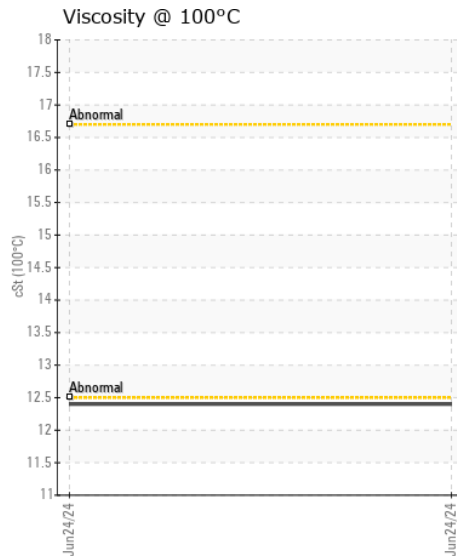
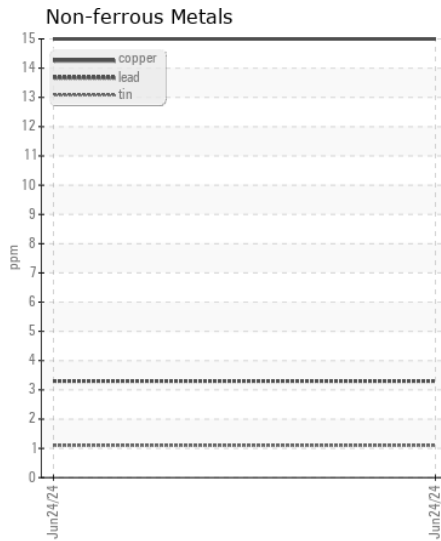
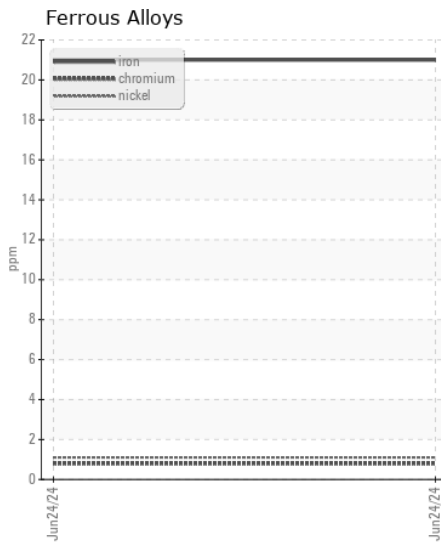
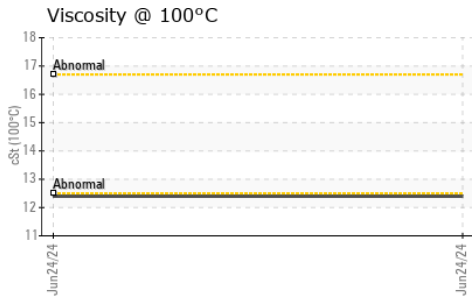
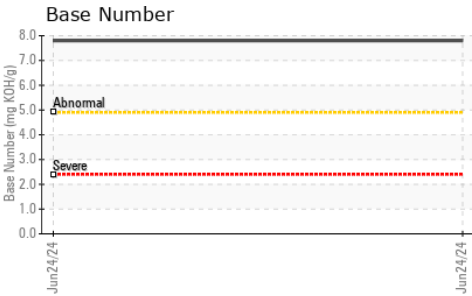
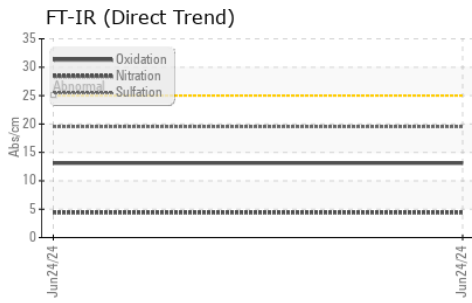
There is no indication of any contamination in the oil.

|                  |          |             |       |                |     |     |
|------------------|----------|-------------|-------|----------------|-----|-----|
| Silicon          | ppm      | ASTM D5185m | >22   | <b>11</b>      | --- | --- |
| Potassium        | ppm      | ASTM D5185m | >20   | <b>10</b>      | --- | --- |
| Fuel             | %        | ASTM D3524  | >2.1  | <b>&lt;1.0</b> | --- | --- |
| Water            |          | WC Method   | >0.21 | <b>NEG</b>     | --- | --- |
| Glycol           |          | WC Method   |       | <b>NEG</b>     | --- | --- |
| Soot %           | %        | *ASTM D7844 | >3    | <b>0.1</b>     | --- | --- |
| Nitration        | Abs/cm   | *ASTM D7624 | >20   | <b>4.4</b>     | --- | --- |
| Sulfation        | Abs/.1mm | *ASTM D7415 | >30   | <b>19.5</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     | >0.21 | <b>NEG</b>     | --- | --- |

### FLUID CONDITION

The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

|                  |          |             |     |             |     |     |
|------------------|----------|-------------|-----|-------------|-----|-----|
| Sodium           | ppm      | ASTM D5185m | >31 | <b>11</b>   | --- | --- |
| Boron            | ppm      | ASTM D5185m |     | <b>420</b>  | --- | --- |
| Barium           | ppm      | ASTM D5185m |     | <b>2</b>    | --- | --- |
| Molybdenum       | ppm      | ASTM D5185m |     | <b>86</b>   | --- | --- |
| Manganese        | ppm      | ASTM D5185m |     | <b>2</b>    | --- | --- |
| Magnesium        | ppm      | ASTM D5185m |     | <b>338</b>  | --- | --- |
| Calcium          | ppm      | ASTM D5185m |     | <b>1285</b> | --- | --- |
| Phosphorus       | ppm      | ASTM D5185m |     | <b>890</b>  | --- | --- |
| Zinc             | ppm      | ASTM D5185m |     | <b>1125</b> | --- | --- |
| Sulfur           | ppm      | ASTM D5185m |     | <b>3029</b> | --- | --- |
| Oxidation        | Abs/.1mm | *ASTM D7414 | >25 | <b>13.1</b> | --- | --- |
| Base Number (BN) | mg KOH/g | ASTM D2896  |     | <b>7.8</b>  | --- | --- |
| Visc @ 100°C     | cSt      | ASTM D445   |     | <b>12.4</b> | --- | --- |



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : JR0193152 **Received** : 25 Jun 2024  
**Lab Number** : 06219484 **Tested** : 26 Jun 2024  
**Unique Number** : 11097681 **Diagnosed** : 26 Jun 2024 - Jonathan Hester  
**Test Package** : CONST ( Additional Tests: FuelDilution, PercentFuel, TBN )

**JRE - CHARLOTTE**  
 9550 STATESVILLE ROAD  
 CHARLOTTE, NC  
 US 28269

Contact: CHARLOTTE SHOP  
 myoung@jamesriverequipment.com

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)

T: (704)597-0211  
 F: (704)596-6198