



**LEAHY-WOLF**  
Lubricating specialists since 1946

**OIL ANALYSIS REPORT**

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

Machine Id  
**FORD JJ08**  
Component  
**Gasoline Engine**  
Fluid  
**{not provided} (--- GAL)**

**RECOMMENDATION**

The oil is near the end of its useful service life, recommend schedule an oil change. 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>LW0007900</b>   | ---      | ---      |
| Sample Date    |     | Client Info |           | <b>21 Feb 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>N/A</b>         | ---      | ---      |
| Filter Changed |     | Client Info |           | <b>N/A</b>         | ---      | ---      |
| Sample Status  |     |             |           | <b>ABNORMAL</b>    | ---      | ---      |

**WEAR**

All component wear rates are normal.

|              |        |             |      |              |     |     |
|--------------|--------|-------------|------|--------------|-----|-----|
| Iron         | ppm    | ASTM D5185m | >150 | <b>29</b>    | --- | --- |
| Chromium     | ppm    | ASTM D5185m | >20  | <b>1</b>     | --- | --- |
| Nickel       | ppm    | ASTM D5185m | >5   | <b>&lt;1</b> | --- | --- |
| Titanium     | ppm    | ASTM D5185m |      | <b>&lt;1</b> | --- | --- |
| Silver       | ppm    | ASTM D5185m | >2   | <b>0</b>     | --- | --- |
| Aluminum     | ppm    | ASTM D5185m | >40  | <b>5</b>     | --- | --- |
| Lead         | ppm    | ASTM D5185m | >50  | <b>&lt;1</b> | --- | --- |
| Copper       | ppm    | ASTM D5185m | >155 | <b>1</b>     | --- | --- |
| Tin          | ppm    | ASTM D5185m | >10  | <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**

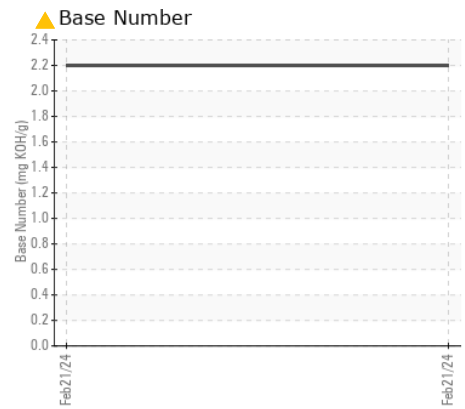
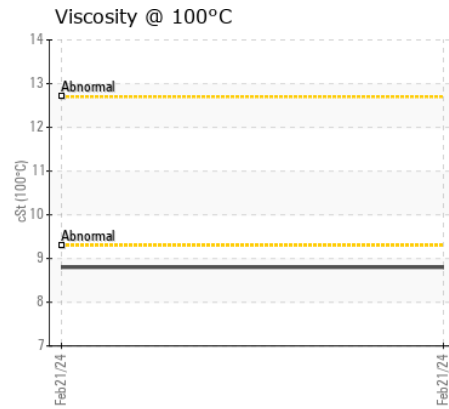
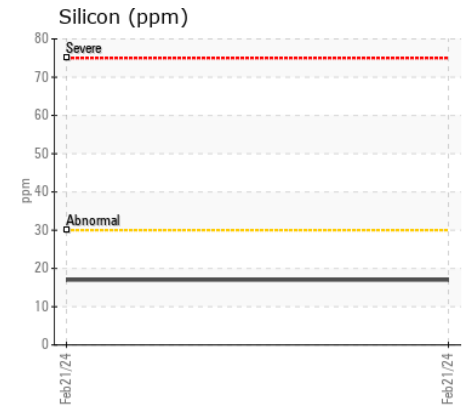
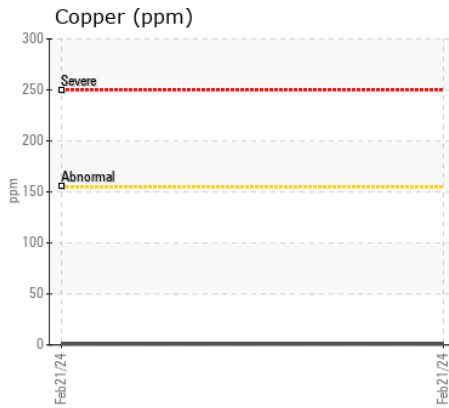
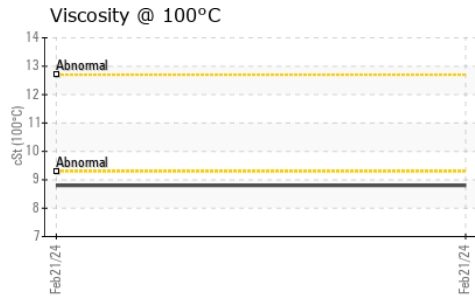
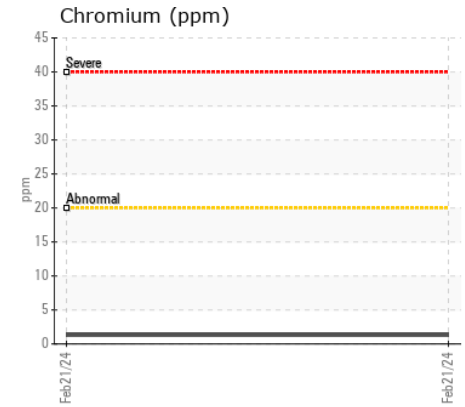
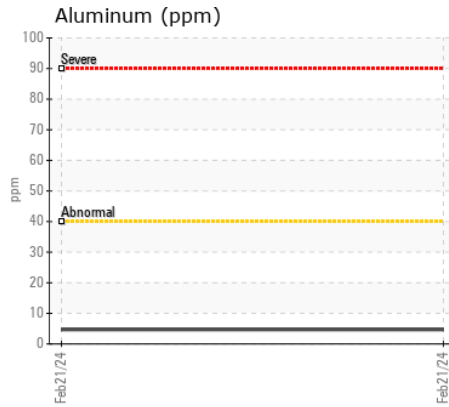
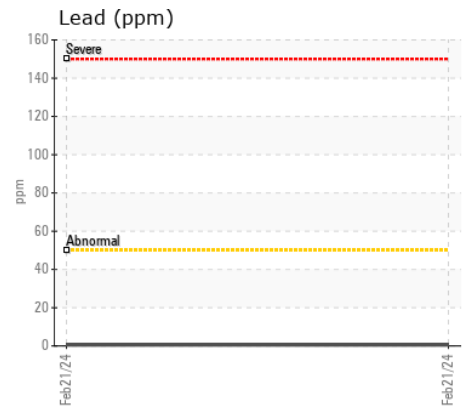
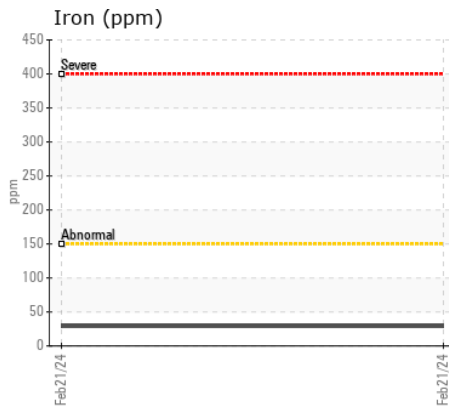
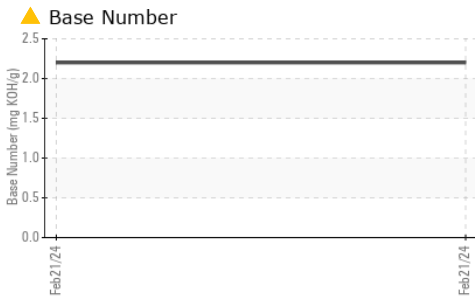
There is no indication of any contamination in the oil.

|                  |          |             |       |                |     |     |
|------------------|----------|-------------|-------|----------------|-----|-----|
| Silicon          | ppm      | ASTM D5185m | >30   | <b>17</b>      | --- | --- |
| Potassium        | ppm      | ASTM D5185m | >20   | <b>5</b>       | --- | --- |
| Fuel             | %        | ASTM D3524  | >4.0  | <b>&lt;1.0</b> | --- | --- |
| Water            |          | WC Method   | >0.2  | <b>NEG</b>     | --- | --- |
| Glycol           |          | WC Method   |       | <b>NEG</b>     | --- | --- |
| Soot %           | %        | *ASTM D7844 |       | <b>0.1</b>     | --- | --- |
| Nitration        | Abs/cm   | *ASTM D7624 | >20   | <b>13.7</b>    | --- | --- |
| Sulfation        | Abs/.1mm | *ASTM D7415 | >30   | <b>27.1</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     | >0.2  | <b>NEG</b>     | --- | --- |

**FLUID CONDITION**

The BN level is low. The condition of the oil is acceptable for the time in service.

|                  |          |             |      |              |     |     |
|------------------|----------|-------------|------|--------------|-----|-----|
| Sodium           | ppm      | ASTM D5185m | >400 | <b>17</b>    | --- | --- |
| Boron            | ppm      | ASTM D5185m |      | <b>21</b>    | --- | --- |
| Barium           | ppm      | ASTM D5185m |      | <b>0</b>     | --- | --- |
| Molybdenum       | ppm      | ASTM D5185m |      | <b>90</b>    | --- | --- |
| Manganese        | ppm      | ASTM D5185m |      | <b>&lt;1</b> | --- | --- |
| Magnesium        | ppm      | ASTM D5185m |      | <b>548</b>   | --- | --- |
| Calcium          | ppm      | ASTM D5185m |      | <b>1066</b>  | --- | --- |
| Phosphorus       | ppm      | ASTM D5185m |      | <b>695</b>   | --- | --- |
| Zinc             | ppm      | ASTM D5185m |      | <b>736</b>   | --- | --- |
| Sulfur           | ppm      | ASTM D5185m |      | <b>2751</b>  | --- | --- |
| Oxidation        | Abs/.1mm | *ASTM D7414 | >25  | <b>22.7</b>  | --- | --- |
| Base Number (BN) | mg KOH/g | ASTM D2896  |      | <b>▲ 2.2</b> | --- | --- |
| Visc @ 100°C     | cSt      | ASTM D445   |      | <b>8.8</b>   | --- | --- |



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : LW0007900 **Received** : 21 Mar 2024  
**Lab Number** : 06125447 **Tested** : 22 Mar 2024  
**Unique Number** : 10939598 **Diagnosed** : 22 Mar 2024 - Jonathan Hester  
**Test Package** : MOB 1 ( Additional Tests: FuelDilution, TBN )

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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