



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

Machine Id  
**2026837**  
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>PCA0123643</b>  | PCA0104891  | PCA0085142  |
| Sample Date    |     | Client Info |           | <b>25 May 2024</b> | 18 Oct 2023 | 09 Mar 2023 |
| Machine Age    | mls | Client Info |           | <b>310524</b>      | 310524      | 259981      |
| Oil Age        | mls | Client Info |           | <b>310524</b>      | 310524      | 0           |
| Filter Age     | mls | Client Info |           | <b>0</b>           | 0           | 0           |
| Oil Changed    |     | Client Info |           | <b>N/A</b>         | N/A         | N/A         |
| Filter Changed |     | Client Info |           | <b>N/A</b>         | N/A         | N/A         |
| Sample Status  |     |             |           | <b>NORMAL</b>      | NORMAL      | NORMAL      |

**WEAR**

All component wear rates are normal.

|              |        |             |      |              |      |      |
|--------------|--------|-------------|------|--------------|------|------|
| Iron         | ppm    | ASTM D5185m | >100 | <b>53</b>    | 31   | 35   |
| Chromium     | ppm    | ASTM D5185m | >20  | <b>1</b>     | <1   | <1   |
| Nickel       | ppm    | ASTM D5185m | >4   | <b>&lt;1</b> | 0    | 0    |
| Titanium     | ppm    | ASTM D5185m |      | <b>0</b>     | 0    | 0    |
| Silver       | ppm    | ASTM D5185m | >3   | <b>0</b>     | <1   | <1   |
| Aluminum     | ppm    | ASTM D5185m | >20  | <b>5</b>     | 3    | 4    |
| Lead         | ppm    | ASTM D5185m | >40  | <b>&lt;1</b> | <1   | 1    |
| Copper       | ppm    | ASTM D5185m | >330 | <b>8</b>     | 6    | 11   |
| Tin          | ppm    | ASTM D5185m | >15  | <b>&lt;1</b> | <1   | <1   |
| Vanadium     | ppm    | ASTM D5185m |      | <b>0</b>     | 0    | <1   |
| White Metal  | scalar | *Visual     | NONE | <b>NONE</b>  | NONE | NONE |
| Yellow Metal | scalar | *Visual     | NONE | <b>NONE</b>  | NONE | NONE |

**CONTAMINATION**

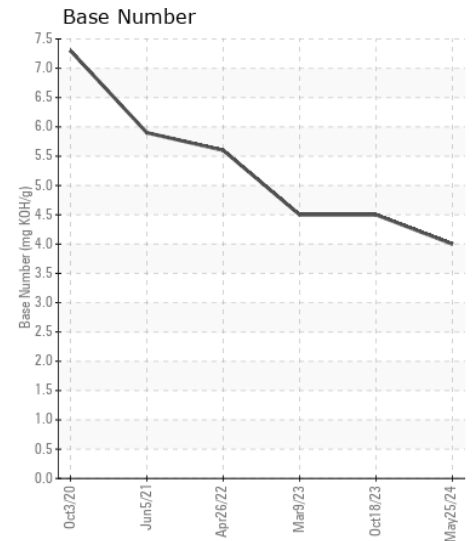
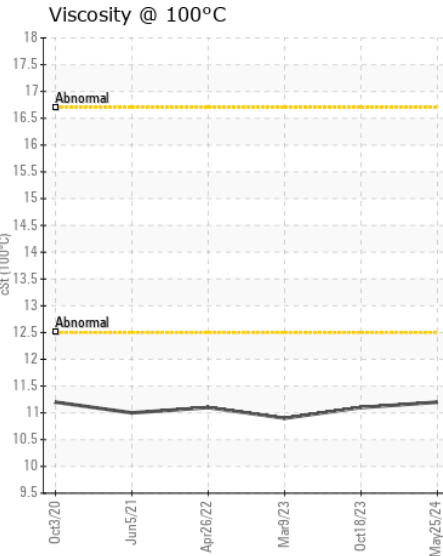
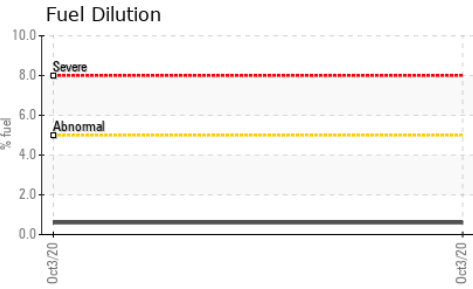
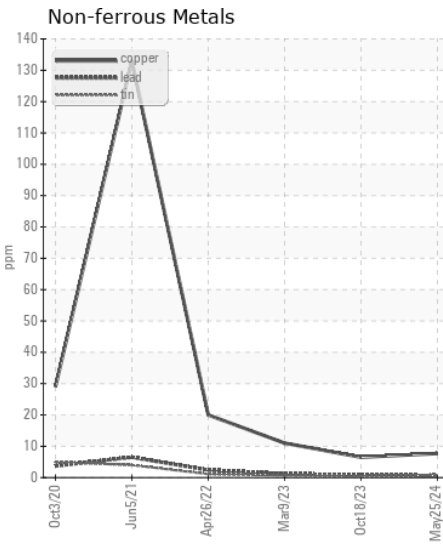
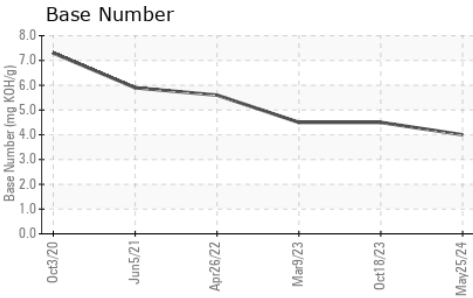
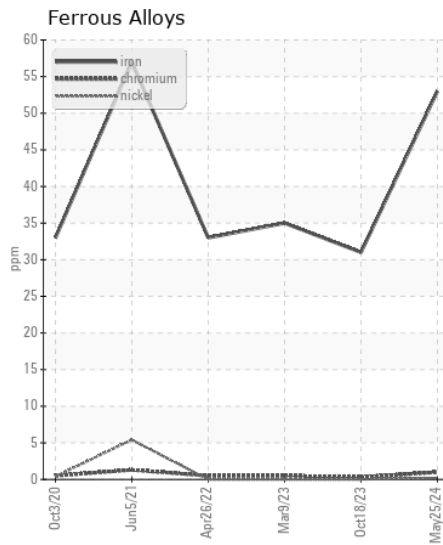
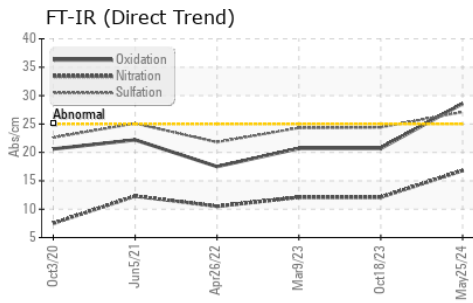
There is no indication of any contamination in the oil.

|                  |          |             |       |                |       |       |
|------------------|----------|-------------|-------|----------------|-------|-------|
| Silicon          | ppm      | ASTM D5185m | >25   | <b>8</b>       | 5     | 5     |
| Potassium        | ppm      | ASTM D5185m | >20   | <b>4</b>       | 3     | 3     |
| Fuel             | %        | ASTM D3524  | >5    | <b>&lt;1.0</b> | <1.0  | <1.0  |
| Water            |          | WC Method   | >0.2  | <b>NEG</b>     | NEG   | NEG   |
| Glycol           |          | WC Method   |       | <b>NEG</b>     | NEG   | NEG   |
| Soot %           | %        | *ASTM D7844 | >3    | <b>0.7</b>     | 0.6   | 0.6   |
| Nitration        | Abs/cm   | *ASTM D7624 | >20   | <b>16.8</b>    | 12.1  | 12.1  |
| Sulfation        | Abs/.1mm | *ASTM D7415 | >30   | <b>27.1</b>    | 24.4  | 24.3  |
| Silt             | scalar   | *Visual     | NONE  | <b>NONE</b>    | NONE  | NONE  |
| Debris           | scalar   | *Visual     | NONE  | <b>NONE</b>    | NONE  | NONE  |
| Sand/Dirt        | scalar   | *Visual     | NONE  | <b>NONE</b>    | NONE  | NONE  |
| Appearance       | scalar   | *Visual     | NORML | <b>NORML</b>   | NORML | NORML |
| Odor             | scalar   | *Visual     | NORML | <b>NORML</b>   | NORML | NORML |
| Emulsified Water | scalar   | *Visual     | >0.2  | <b>NEG</b>     | NEG   | NEG   |

**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 |     | <b>2</b>     | 1    | 1    |
| Boron            | ppm      | ASTM D5185m |     | <b>4</b>     | 3    | <1   |
| Barium           | ppm      | ASTM D5185m |     | <b>0</b>     | 0    | 0    |
| Molybdenum       | ppm      | ASTM D5185m |     | <b>61</b>    | 60   | 59   |
| Manganese        | ppm      | ASTM D5185m |     | <b>&lt;1</b> | <1   | 1    |
| Magnesium        | ppm      | ASTM D5185m |     | <b>938</b>   | 863  | 902  |
| Calcium          | ppm      | ASTM D5185m |     | <b>1103</b>  | 1040 | 1060 |
| Phosphorus       | ppm      | ASTM D5185m |     | <b>1035</b>  | 860  | 872  |
| Zinc             | ppm      | ASTM D5185m |     | <b>1299</b>  | 1185 | 1172 |
| Sulfur           | ppm      | ASTM D5185m |     | <b>2718</b>  | 2598 | 2744 |
| Oxidation        | Abs/.1mm | *ASTM D7414 | >25 | <b>28.6</b>  | 20.7 | 20.7 |
| Base Number (BN) | mg KOH/g | ASTM D2896  |     | <b>4.0</b>   | 4.5  | 4.5  |
| Visc @ 100°C     | cSt      | ASTM D445   |     | <b>11.2</b>  | 11.1 | 10.9 |



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : PCA0123643 **Received** : 18 Jul 2024  
**Lab Number** : 06240045 **Tested** : 19 Jul 2024  
**Unique Number** : 11128879 **Diagnosed** : 20 Jul 2024 - Don Baldrige  
**Test Package** : FLEET ( Additional Tests: FuelDilution )

**PERDUE FARMS - DILLON**  
 2047 HWY 9 WEST  
 DILLON, SC  
 US 29536

Contact: KEVIN HOOKS  
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 F: (843)841-8070

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)