



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

Machine Id  
**2126906**  
 Component  
**Front Differential**  
 Fluid  
**GEAR OIL SAE 75W90 (--- QTS)**

**RECOMMENDATION**

Resample at the next service interval to monitor. Please specify the component make and model with your next sample. 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>PCA0105552</b>  | PCA0085291  | PCA0081174  |
| Sample Date    |     | Client Info |           | <b>01 Sep 2023</b> | 22 Dec 2022 | 11 Oct 2022 |
| Machine Age    | mls | Client Info |           | <b>227516</b>      | 157436      | 142940      |
| Oil Age        | mls | Client Info |           | <b>227516</b>      | 157436      | 142940      |
| Filter Age     | mls | Client Info |           | <b>0</b>           | 0           | 142940      |
| Oil Changed    |     | Client Info |           | <b>N/A</b>         | Not Changd  | N/A         |
| Filter Changed |     | Client Info |           | <b>N/A</b>         | Not Changd  | N/A         |
| Sample Status  |     |             |           | <b>NORMAL</b>      | NORMAL      | NORMAL      |

**WEAR**

All component wear rates are normal.

|              |        |             |      |              |      |      |
|--------------|--------|-------------|------|--------------|------|------|
| Iron         | ppm    | ASTM D5185m | >500 | <b>263</b>   | 188  | 181  |
| Chromium     | ppm    | ASTM D5185m | >10  | <b>2</b>     | 2    | 2    |
| Nickel       | ppm    | ASTM D5185m | >10  | <b>5</b>     | 6    | 5    |
| Titanium     | ppm    | ASTM D5185m |      | <b>&lt;1</b> | <1   | <1   |
| Silver       | ppm    | ASTM D5185m |      | <b>0</b>     | 0    | 0    |
| Aluminum     | ppm    | ASTM D5185m | >25  | <b>2</b>     | 3    | 2    |
| Lead         | ppm    | ASTM D5185m | >25  | <b>8</b>     | 0    | 0    |
| Copper       | ppm    | ASTM D5185m | >100 | <b>46</b>    | 1    | 1    |
| Tin          | ppm    | ASTM D5185m | >10  | <b>2</b>     | <1   | <1   |
| Vanadium     | ppm    | ASTM D5185m |      | <b>&lt;1</b> | <1   | 0    |
| White Metal  | scalar | *Visual     | NONE | <b>NONE</b>  | NONE | NONE |
| Yellow Metal | scalar | *Visual     | NONE | <b>NONE</b>  | NONE | NONE |

**CONTAMINATION**

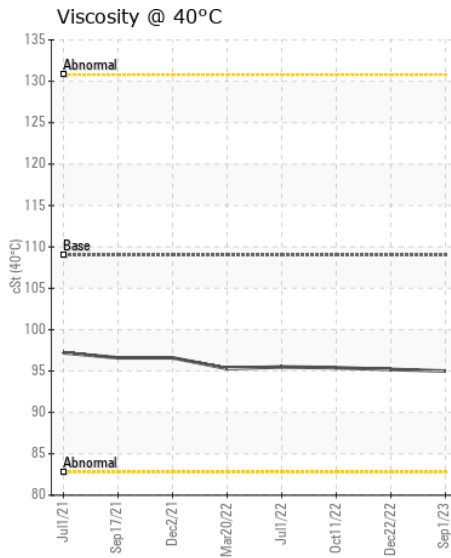
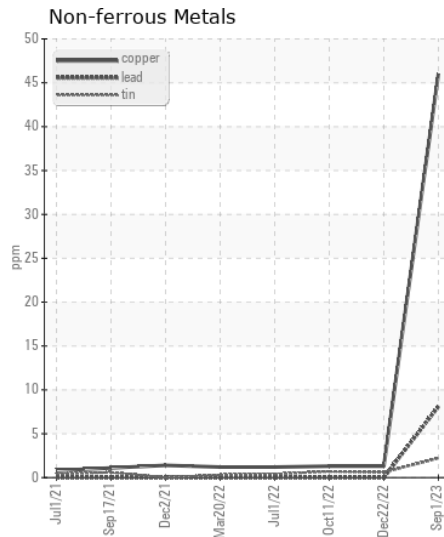
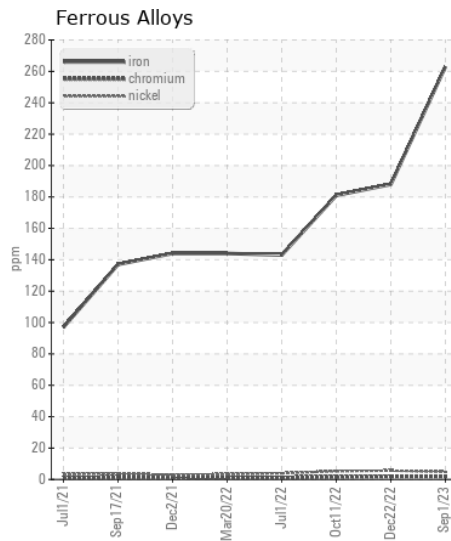
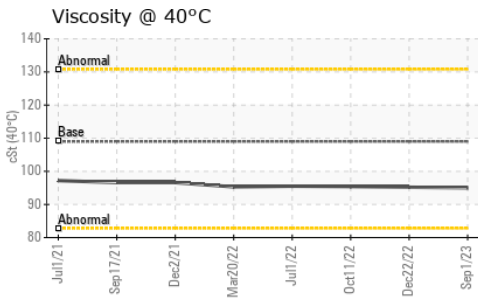
There is no indication of any contamination in the oil.

|                  |        |             |       |              |       |       |
|------------------|--------|-------------|-------|--------------|-------|-------|
| Silicon          | ppm    | ASTM D5185m | >75   | <b>49</b>    | 32    | 32    |
| Potassium        | ppm    | ASTM D5185m | >20   | <b>4</b>     | 3     | <1    |
| Water            |        | WC Method   | >.2   | <b>NEG</b>   | NEG   | NEG   |
| Silt             | scalar | *Visual     | NONE  | <b>NONE</b>  | NONE  | NONE  |
| Debris           | scalar | *Visual     | NONE  | <b>LIGHT</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     | >.2   | <b>NEG</b>   | NEG   | NEG   |

**FLUID CONDITION**

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

|             |     |             |       |              |       |       |
|-------------|-----|-------------|-------|--------------|-------|-------|
| Sodium      | ppm | ASTM D5185m |       | <b>10</b>    | 8     | 8     |
| Boron       | ppm | ASTM D5185m | 400   | <b>191</b>   | 194   | 203   |
| Barium      | ppm | ASTM D5185m | 200   | <b>2</b>     | 0     | 0     |
| Molybdenum  | ppm | ASTM D5185m | 12    | <b>&lt;1</b> | 1     | <1    |
| Manganese   | ppm | ASTM D5185m |       | <b>18</b>    | 12    | 11    |
| Magnesium   | ppm | ASTM D5185m | 12    | <b>6</b>     | 7     | 6     |
| Calcium     | ppm | ASTM D5185m | 150   | <b>39</b>    | 24    | 21    |
| Phosphorus  | ppm | ASTM D5185m | 1650  | <b>1209</b>  | 1138  | 1093  |
| Zinc        | ppm | ASTM D5185m | 125   | <b>31</b>    | 31    | 17    |
| Sulfur      | ppm | ASTM D5185m | 22500 | <b>25574</b> | 21122 | 25056 |
| Visc @ 40°C | cSt | ASTM D445   | 109   | <b>95.0</b>  | 95.2  | 95.4  |



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : PCA0105552  
**Lab Number** : 06174487  
**Unique Number** : 11020540  
**Test Package** : FLEET

**Received** : 09 May 2024  
**Tested** : 10 May 2024  
**Diagnosed** : 10 May 2024 - Wes Davis

**PERDUE FARMS - BRIDGEVILLE**  
 8634 E NEWTON RD  
 BRIDGEVILLE, DE  
 US 19933  
 Contact: GEORGE LACATES

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:  
F: