

# OIL ANALYSIS REPORT

Sample Rating Trend

**NORMAL**



Area  
**FLEET**  
 Machine Id  
**2227075 (S/N 4v4nc9eh0rv631481)**  
 Component  
**1 Differential**  
 Fluid  
**GEAR OIL SAE 75W90 (--- GAL)**

## DIAGNOSIS

### Recommendation

Resample at the next service interval to monitor.

### Wear

All component wear rates are normal.

### Contamination

There is no indication of any contamination in the oil.

### Fluid Condition

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

| SAMPLE INFORMATION |             | method      | limit/base | current            | history1 | history2 |
|--------------------|-------------|-------------|------------|--------------------|----------|----------|
| Sample Number      | Client Info |             |            | <b>PCA0112344</b>  | ---      | ---      |
| Sample Date        | Client Info |             |            | <b>03 Dec 2023</b> | ---      | ---      |
| Machine Age        | hrs         | Client Info |            | <b>0</b>           | ---      | ---      |
| Oil Age            | hrs         | Client Info |            | <b>0</b>           | ---      | ---      |
| Oil Changed        | Client Info |             |            | <b>N/A</b>         | ---      | ---      |
| Sample Status      |             |             |            | <b>NORMAL</b>      | ---      | ---      |

| CONTAMINATION |           | method | limit/base | current    | history1 | history2 |
|---------------|-----------|--------|------------|------------|----------|----------|
| Water         | WC Method |        | >.2        | <b>NEG</b> | ---      | ---      |

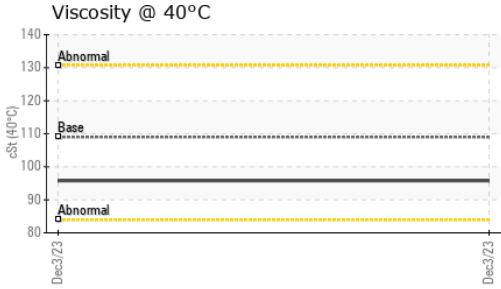
| WEAR METALS |     | method      | limit/base | current      | history1 | history2 |
|-------------|-----|-------------|------------|--------------|----------|----------|
| Iron        | ppm | ASTM D5185m | >500       | <b>180</b>   | ---      | ---      |
| Chromium    | ppm | ASTM D5185m | >10        | <b>2</b>     | ---      | ---      |
| Nickel      | ppm | ASTM D5185m | >10        | <b>2</b>     | ---      | ---      |
| Titanium    | ppm | ASTM D5185m |            | <b>&lt;1</b> | ---      | ---      |
| Silver      | ppm | ASTM D5185m |            | <b>0</b>     | ---      | ---      |
| Aluminum    | ppm | ASTM D5185m | >25        | <b>&lt;1</b> | ---      | ---      |
| Lead        | ppm | ASTM D5185m | >25        | <b>17</b>    | ---      | ---      |
| Copper      | ppm | ASTM D5185m | >100       | <b>18</b>    | ---      | ---      |
| Tin         | ppm | ASTM D5185m | >10        | <b>&lt;1</b> | ---      | ---      |
| Vanadium    | ppm | ASTM D5185m |            | <b>0</b>     | ---      | ---      |
| Cadmium     | ppm | ASTM D5185m |            | <b>&lt;1</b> | ---      | ---      |

| ADDITIVES  |     | method      | limit/base | current      | history1 | history2 |
|------------|-----|-------------|------------|--------------|----------|----------|
| Boron      | ppm | ASTM D5185m | 400        | <b>127</b>   | ---      | ---      |
| Barium     | ppm | ASTM D5185m | 200        | <b>5</b>     | ---      | ---      |
| Molybdenum | ppm | ASTM D5185m | 12         | <b>0</b>     | ---      | ---      |
| Manganese  | ppm | ASTM D5185m |            | <b>12</b>    | ---      | ---      |
| Magnesium  | ppm | ASTM D5185m | 12         | <b>2</b>     | ---      | ---      |
| Calcium    | ppm | ASTM D5185m | 150        | <b>18</b>    | ---      | ---      |
| Phosphorus | ppm | ASTM D5185m | 1650       | <b>1118</b>  | ---      | ---      |
| Zinc       | ppm | ASTM D5185m | 125        | <b>21</b>    | ---      | ---      |
| Sulfur     | ppm | ASTM D5185m | 22500      | <b>24777</b> | ---      | ---      |

| CONTAMINANTS |     | method      | limit/base | current   | history1 | history2 |
|--------------|-----|-------------|------------|-----------|----------|----------|
| Silicon      | ppm | ASTM D5185m | >75        | <b>50</b> | ---      | ---      |
| Sodium       | ppm | ASTM D5185m |            | <b>10</b> | ---      | ---      |
| Potassium    | ppm | ASTM D5185m | >20        | <b>2</b>  | ---      | ---      |

| VISUAL           |        | method  | limit/base | current      | history1 | history2 |
|------------------|--------|---------|------------|--------------|----------|----------|
| White Metal      | scalar | *Visual | NONE       | <b>NONE</b>  | ---      | ---      |
| Yellow Metal     | scalar | *Visual | NONE       | <b>NONE</b>  | ---      | ---      |
| Precipitate      | scalar | *Visual | NONE       | <b>NONE</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 | >.2        | <b>NEG</b>   | ---      | ---      |
| Free Water       | scalar | *Visual |            | <b>NEG</b>   | ---      | ---      |

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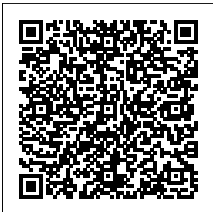
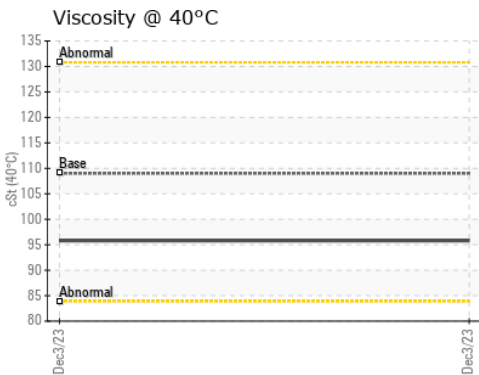
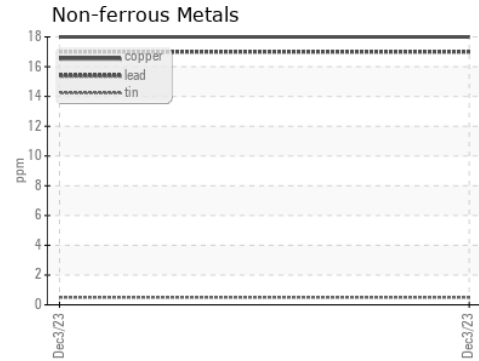
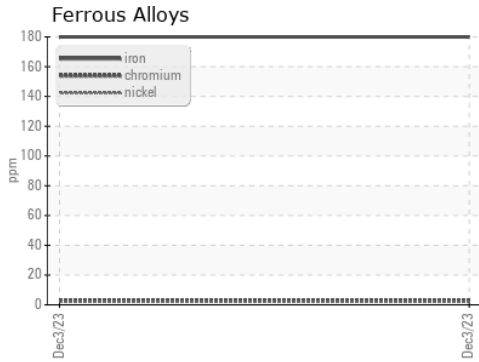
### FLUID PROPERTIES

| method      | limit/base    | current | history1    | history2 |     |
|-------------|---------------|---------|-------------|----------|-----|
| Visc @ 40°C | cSt ASTM D445 | 109     | <b>95.8</b> | ---      | --- |

### SAMPLE IMAGES

| method | limit/base | current | history1 | history2 |          |
|--------|------------|---------|----------|----------|----------|
| Color  |            |         | no image | no image | no image |
| Bottom |            |         | no image | no image | no image |

### GRAPHS



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : PCA0112344 **Received** : 12 Dec 2023  
**Lab Number** : **06032538** **Diagnosed** : 15 Dec 2023  
**Unique Number** : 10782329 **Diagnostician** : Don Baldrige  
**Test Package** : FLEET

**PERDUE FARMS - DILLON**  
 2047 HWY 9 WEST  
 DILLON, SC  
 US 29536  
 Contact: KEVIN HOOKS  
 kevin.hooks@perdue.com  
 T: (843)841-8069  
 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)