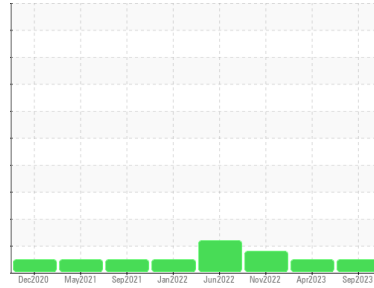


# OIL ANALYSIS REPORT

## Sample Rating Trend

**NORMAL**



Machine Id  
**DT757**  
Component  
**Transmission (Auto)**  
Fluid  
**COGNIS EMGARD 2805 ATF (--- QTS)**

## 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 fluid.

### Fluid Condition

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

## SAMPLE INFORMATION

|               | method      | limit/base  | current            | history1    | history2    |
|---------------|-------------|-------------|--------------------|-------------|-------------|
| Sample Number | Client Info |             | <b>PCA0104142</b>  | PCA0095684  | PCA0084930  |
| Sample Date   | Client Info |             | <b>07 Sep 2023</b> | 18 Apr 2023 | 14 Nov 2022 |
| Machine Age   | mls         | Client Info | <b>201455</b>      | 175242      | 127223      |
| Oil Age       | mls         | Client Info | <b>178398</b>      | 175242      | 127223      |
| Oil Changed   | Client Info |             | <b>Not Chngd</b>   | N/A         | N/A         |
| Sample Status |             |             | <b>NORMAL</b>      | NORMAL      | ABNORMAL    |

## WEAR METALS

|          | method | limit/base       | current      | history1 | history2 |
|----------|--------|------------------|--------------|----------|----------|
| Iron     | ppm    | ASTM D5185m >220 | <b>81</b>    | 55       | 129      |
| Chromium | ppm    | ASTM D5185m >2   | <b>&lt;1</b> | 0        | <1       |
| Nickel   | ppm    | ASTM D5185m >5   | <b>0</b>     | 0        | 0        |
| Titanium | ppm    | ASTM D5185m      | <b>0</b>     | 0        | 0        |
| Silver   | ppm    | ASTM D5185m >5   | <b>0</b>     | 0        | <1       |
| Aluminum | ppm    | ASTM D5185m >75  | <b>34</b>    | 27       | 53       |
| Lead     | ppm    | ASTM D5185m >95  | <b>24</b>    | 23       | 70       |
| Copper   | ppm    | ASTM D5185m >60  | <b>33</b>    | 29       | ▲ 74     |
| Tin      | ppm    | ASTM D5185m >10  | <b>2</b>     | 2        | 4        |
| Vanadium | ppm    | ASTM D5185m      | <b>0</b>     | 0        | 0        |
| Cadmium  | ppm    | ASTM D5185m      | <b>0</b>     | 0        | 0        |

## ADDITIVES

|            | method | limit/base  | current     | history1 | history2 |
|------------|--------|-------------|-------------|----------|----------|
| Boron      | ppm    | ASTM D5185m | <b>115</b>  | 132      | 194      |
| Barium     | ppm    | ASTM D5185m | <b>0</b>    | 0        | 0        |
| Molybdenum | ppm    | ASTM D5185m | <b>0</b>    | <1       | <1       |
| Manganese  | ppm    | ASTM D5185m | <b>1</b>    | <1       | 2        |
| Magnesium  | ppm    | ASTM D5185m | <b>2</b>    | 2        | 1        |
| Calcium    | ppm    | ASTM D5185m | <b>121</b>  | 121      | 125      |
| Phosphorus | ppm    | ASTM D5185m | <b>289</b>  | 284      | 425      |
| Zinc       | ppm    | ASTM D5185m | <b>0</b>    | 5        | 2        |
| Sulfur     | ppm    | ASTM D5185m | <b>2342</b> | 2077     | 2937     |

## CONTAMINANTS

|           | method | limit/base      | current  | history1 | history2 |
|-----------|--------|-----------------|----------|----------|----------|
| Silicon   | ppm    | ASTM D5185m >25 | <b>9</b> | 5        | 7        |
| Sodium    | ppm    | ASTM D5185m     | <b>7</b> | 4        | 9        |
| Potassium | ppm    | ASTM D5185m >20 | <b>1</b> | 2        | 4        |

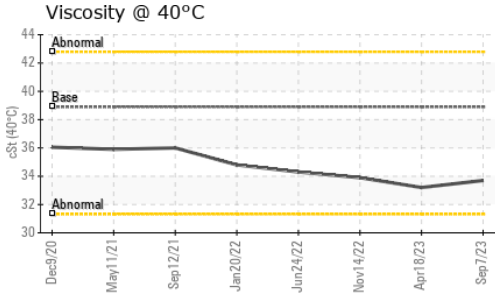
## VISUAL

|                  | method | limit/base    | current      | history1 | history2 |
|------------------|--------|---------------|--------------|----------|----------|
| White Metal      | scalar | *Visual NONE  | <b>NONE</b>  | NONE     | NONE     |
| Yellow Metal     | scalar | *Visual NONE  | <b>NONE</b>  | NONE     | NONE     |
| Precipitate      | scalar | *Visual NONE  | <b>NONE</b>  | NONE     | NONE     |
| 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 >0.1  | <b>NEG</b>   | NEG      | NEG      |
| Free Water       | scalar | *Visual       | <b>NEG</b>   | NEG      | NEG      |

## FLUID PROPERTIES

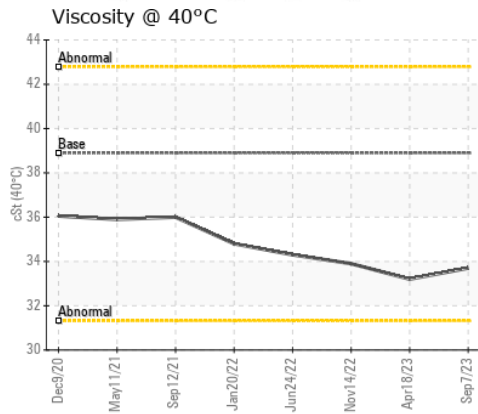
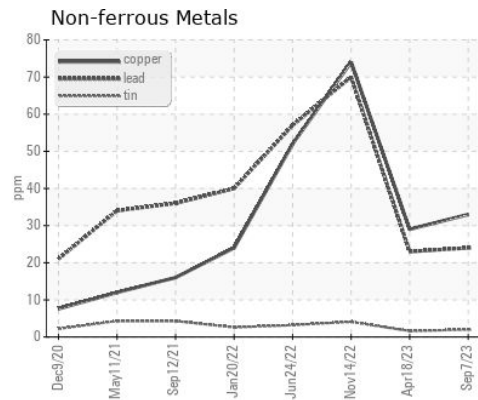
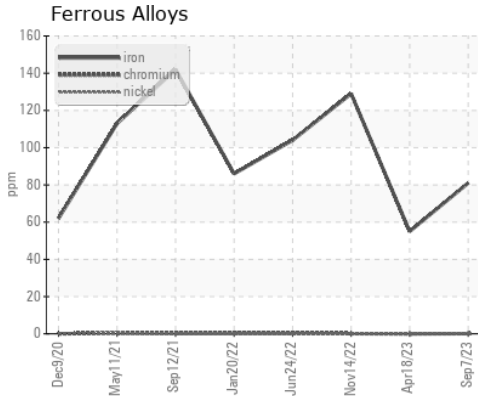
|             | method | limit/base     | current     | history1 | history2 |
|-------------|--------|----------------|-------------|----------|----------|
| Visc @ 40°C | cSt    | ASTM D445 38.9 | <b>33.7</b> | 33.2     | 33.9     |

# OIL ANALYSIS REPORT



| 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.** : PCA0104142 **Received** : 11 Sep 2023  
**Lab Number** : 05947621 **Diagnosed** : 13 Sep 2023  
**Unique Number** : 10643580 **Diagnostician** : Sean Felton  
**Test Package** : FLEET

**NW WHITE & CO - COLUMBIA DIVISION**  
 100 INDEPENDENCE BLVD  
 COLUMBIA, SC  
 US 29210  
 Contact: GEORGE EDWARDS  
 gedwards@nwwhite.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:  
F: