



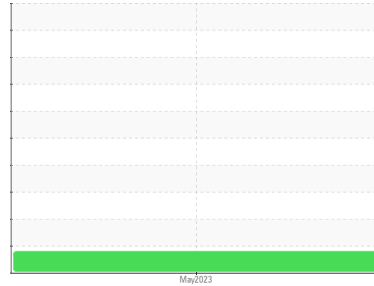
# PROBLEM SUMMARY

Sample Rating Trend

WEAR



Machine Id  
**DT-102**  
Component  
**Front Left Final Drive**  
Fluid  
**GEAR OIL SAE 80W90 (--- GAL)**



## COMPONENT CONDITION SUMMARY

### ▲ Ferrous Alloys



## RECOMMENDATION

No corrective action is recommended at this time.  
Resample at the next service interval to monitor.

## PROBLEMATIC TEST RESULTS

| Sample Status |     |             |      | ABNORMAL | --- | --- |
|---------------|-----|-------------|------|----------|-----|-----|
| Iron          | ppm | ASTM D5185m | >500 | ▲ 697    | --- | --- |

Customer Id: ECPROA  
Sample No.: WC0705200  
Lab Number: 05901609  
Test Package: FLEET



To manage this report scan the QR code

To discuss the diagnosis or test data:  
Don Baldrige +1  
[don.b505@comcast.net](mailto:don.b505@comcast.net)

To change component or sample information:  
Customer Service +1 1-800-237-1369  
[customerservice@wearcheck.com](mailto:customerservice@wearcheck.com)

## RECOMMENDED ACTIONS

*There are no recommended actions for this sample.*

## HISTORICAL DIAGNOSIS



# OIL ANALYSIS REPORT

Sample Rating Trend



**WEAR**



Machine Id  
**DT-102**  
 Component  
**Front Left Final Drive**  
 Fluid  
**GEAR OIL SAE 80W90 (--- GAL)**

## DIAGNOSIS

### ▲ Recommendation

No corrective action is recommended at this time. Resample at the next service interval to monitor.

### ▲ Wear

Gear wear is indicated. All other metal levels are typical for a new component breaking in.

### 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>WC0705200</b>   | ---      | ---      |
| Sample Date   | Client Info |             | <b>26 May 2023</b> | ---      | ---      |
| Machine Age   | hrs         | Client Info | <b>1049</b>        | ---      | ---      |
| Oil Age       | hrs         | Client Info | <b>1049</b>        | ---      | ---      |
| Oil Changed   | Client Info |             | <b>Not Chngd</b>   | ---      | ---      |
| Sample Status |             |             | <b>ABNORMAL</b>    | ---      | ---      |

## WEAR METALS

|          | method | limit/base       | current      | history1 | history2 |
|----------|--------|------------------|--------------|----------|----------|
| Iron     | ppm    | ASTM D5185m >500 | <b>▲ 697</b> | ---      | ---      |
| Chromium | ppm    | ASTM D5185m >10  | <b>7</b>     | ---      | ---      |
| Nickel   | ppm    | ASTM D5185m >10  | <b>1</b>     | ---      | ---      |
| Titanium | ppm    | ASTM D5185m      | <b>&lt;1</b> | ---      | ---      |
| Silver   | ppm    | ASTM D5185m      | <b>0</b>     | ---      | ---      |
| Aluminum | ppm    | ASTM D5185m >25  | <b>6</b>     | ---      | ---      |
| Lead     | ppm    | ASTM D5185m >25  | <b>0</b>     | ---      | ---      |
| Copper   | ppm    | ASTM D5185m >50  | <b>&lt;1</b> | ---      | ---      |
| Tin      | ppm    | ASTM D5185m >10  | <b>0</b>     | ---      | ---      |
| Vanadium | ppm    | ASTM D5185m      | <b>&lt;1</b> | ---      | ---      |
| Cadmium  | ppm    | ASTM D5185m      | <b>0</b>     | ---      | ---      |

## ADDITIVES

|            | method | limit/base        | current      | history1 | history2 |
|------------|--------|-------------------|--------------|----------|----------|
| Boron      | ppm    | ASTM D5185m 400   | <b>194</b>   | ---      | ---      |
| Barium     | ppm    | ASTM D5185m 200   | <b>0</b>     | ---      | ---      |
| Molybdenum | ppm    | ASTM D5185m 12    | <b>4</b>     | ---      | ---      |
| Manganese  | ppm    | ASTM D5185m       | <b>8</b>     | ---      | ---      |
| Magnesium  | ppm    | ASTM D5185m 12    | <b>25</b>    | ---      | ---      |
| Calcium    | ppm    | ASTM D5185m 150   | <b>90</b>    | ---      | ---      |
| Phosphorus | ppm    | ASTM D5185m 1650  | <b>1087</b>  | ---      | ---      |
| Zinc       | ppm    | ASTM D5185m 125   | <b>69</b>    | ---      | ---      |
| Sulfur     | ppm    | ASTM D5185m 22500 | <b>25790</b> | ---      | ---      |

## CONTAMINANTS

|           | method | limit/base       | current   | history1 | history2 |
|-----------|--------|------------------|-----------|----------|----------|
| Silicon   | ppm    | ASTM D5185m >75  | <b>22</b> | ---      | ---      |
| Sodium    | ppm    | ASTM D5185m >170 | <b>4</b>  | ---      | ---      |
| Potassium | ppm    | ASTM D5185m >20  | <b>32</b> | ---      | ---      |

## VISUAL

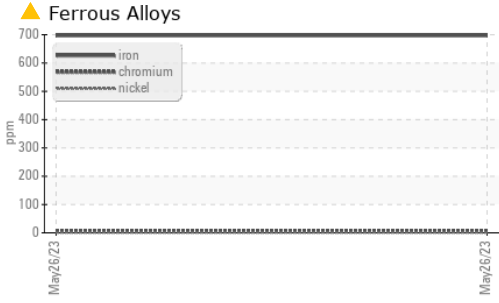
|                  | method | limit/base    | current      | history1 | history2 |
|------------------|--------|---------------|--------------|----------|----------|
| White Metal      | scalar | *Visual NONE  | <b>LIGHT</b> | ---      | ---      |
| Yellow Metal     | scalar | *Visual NONE  | <b>NONE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

## FLUID PROPERTIES

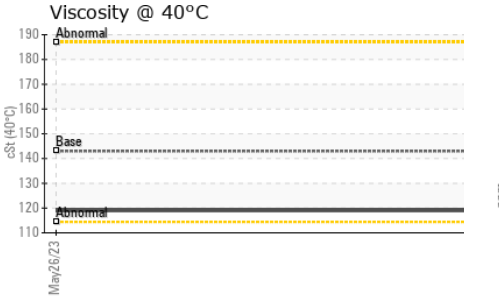
|             | method | limit/base    | current    | history1 | history2 |
|-------------|--------|---------------|------------|----------|----------|
| Visc @ 40°C | cSt    | ASTM D445 143 | <b>119</b> | ---      | ---      |



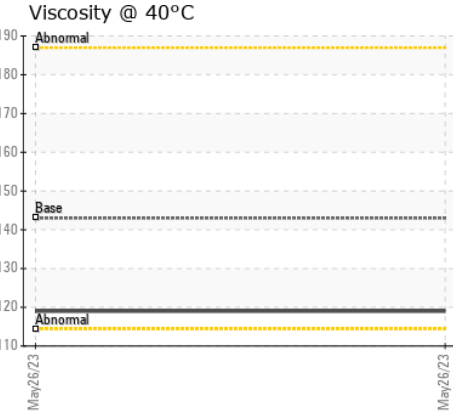
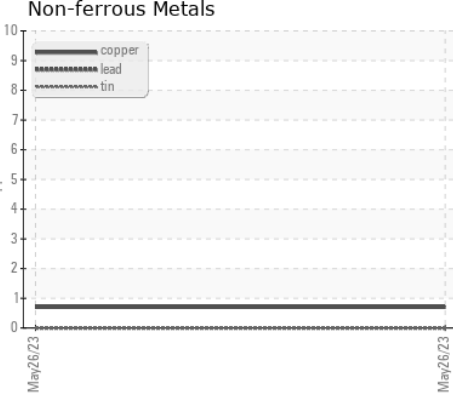
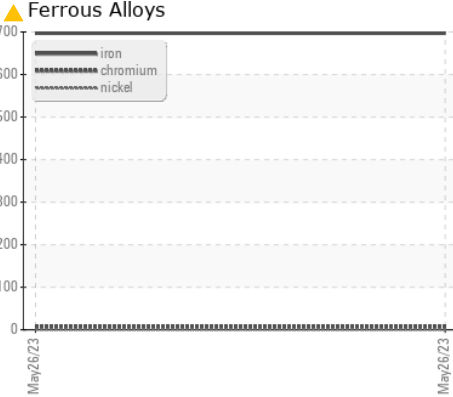
# OIL ANALYSIS REPORT



| 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.** : WC0705200      **Received** : 18 Jul 2023  
**Lab Number** : 05901609      **Diagnosed** : 20 Jul 2023  
**Unique Number** : 10562965      **Diagnostician** : Don Baldrige  
**Test Package** : FLEET ( Additional Tests: PrtCount )

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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)