

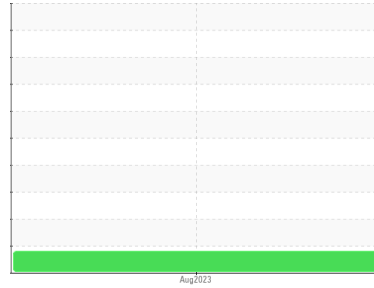
# PROBLEM SUMMARY

Sample Rating Trend

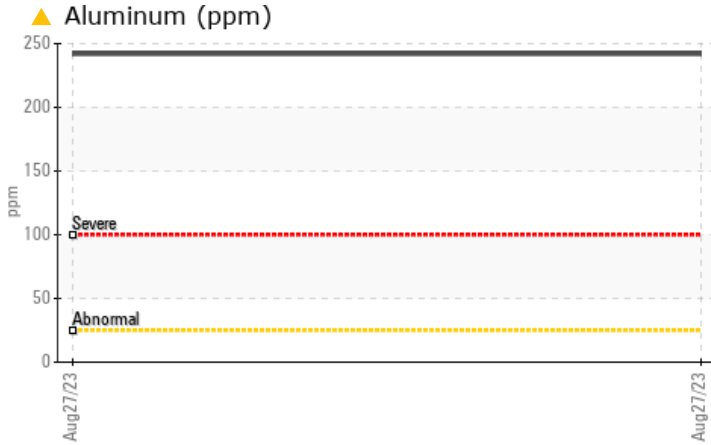
WEAR



Machine Id  
**PCA 0103738 NOT GIVEN PCA0103738**  
 Component  
**Gearbox**  
 Fluid  
**NOT GIVEN (--- GAL)**



## COMPONENT CONDITION SUMMARY



## RECOMMENDATION

No corrective action is recommended at this time. We recommend an early resample to monitor this condition. Please specify the brand, type, and viscosity of the oil on your next sample.

## PROBLEMATIC TEST RESULTS

|               |     |             |     |                 |     |     |
|---------------|-----|-------------|-----|-----------------|-----|-----|
| Sample Status |     |             |     | <b>ABNORMAL</b> | --- | --- |
| Aluminum      | ppm | ASTM D5185m | >25 | ▲ 242           | --- | --- |

Customer Id: HERHER  
 Sample No.: PCA0103738  
 Lab Number: 05936263  
 Test Package: IND 2



To manage this report scan the QR code

To discuss the diagnosis or test data:  
 Don Baldrige +1  
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To change component or sample information:  
 Customer Service +1 1-800-237-1369  
[customerservice@wearcheck.com](mailto:customerservice@wearcheck.com)

## RECOMMENDED ACTIONS

| Action               | Status | Date | Done By | Description   |
|----------------------|--------|------|---------|---|
| Resample             | ---    | ---  | ?       | We recommend an early resample to monitor this condition.                     |
| Information Required | ---    | ---  | ?       | Please specify the brand, type, and viscosity of the oil on your next sample. |

## HISTORICAL DIAGNOSIS

# OIL ANALYSIS REPORT

Sample Rating Trend



**WEAR**



Machine Id  
**PCA 0103738 NOT GIVEN PCA0103738**  
 Component  
**Gearbox**  
 Fluid  
**NOT GIVEN (--- GAL)**

**DIAGNOSIS**

**Recommendation**  
 No corrective action is recommended at this time. We recommend an early resample to monitor this condition. Please specify the brand, type, and viscosity of the oil on your next sample.

**Wear**  
 The aluminum level is abnormal. All other component wear rates are normal.

**Contamination**  
 There is no indication of any contamination in the oil.

**Fluid Condition**  
 The AN level is acceptable for this fluid. 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>PCA0103738</b>  | --- | --- |
| Sample Date   | Client Info |             | <b>27 Aug 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>ABNORMAL</b>    | --- | --- |

**WEAR METALS** method limit/base current history1 history2

|          |     |             |      |              |     |     |
|----------|-----|-------------|------|--------------|-----|-----|
| PQ       |     | ASTM D8184  |      | <b>33</b>    | --- | --- |
| Iron     | ppm | ASTM D5185m | >200 | <b>62</b>    | --- | --- |
| Chromium | ppm | ASTM D5185m | >15  | <b>2</b>     | --- | --- |
| Nickel   | ppm | ASTM D5185m | >15  | <b>0</b>     | --- | --- |
| Titanium | ppm | ASTM D5185m |      | <b>&lt;1</b> | --- | --- |
| Silver   | ppm | ASTM D5185m |      | <b>0</b>     | --- | --- |
| Aluminum | ppm | ASTM D5185m | >25  | <b>▲ 242</b> | --- | --- |
| Lead     | ppm | ASTM D5185m | >100 | <b>&lt;1</b> | --- | --- |
| Copper   | ppm | ASTM D5185m | >200 | <b>6</b>     | --- | --- |
| Tin      | ppm | ASTM D5185m | >25  | <b>&lt;1</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 |  | <b>0</b>     | --- | --- |
| Barium     | ppm | ASTM D5185m |  | <b>1</b>     | --- | --- |
| Molybdenum | ppm | ASTM D5185m |  | <b>0</b>     | --- | --- |
| Manganese  | ppm | ASTM D5185m |  | <b>&lt;1</b> | --- | --- |
| Magnesium  | ppm | ASTM D5185m |  | <b>9</b>     | --- | --- |
| Calcium    | ppm | ASTM D5185m |  | <b>3569</b>  | --- | --- |
| Phosphorus | ppm | ASTM D5185m |  | <b>638</b>   | --- | --- |
| Zinc       | ppm | ASTM D5185m |  | <b>1425</b>  | --- | --- |
| Sulfur     | ppm | ASTM D5185m |  | <b>1678</b>  | --- | --- |

**CONTAMINANTS** method limit/base current history1 history2

|           |     |             |     |           |     |     |
|-----------|-----|-------------|-----|-----------|-----|-----|
| Silicon   | ppm | ASTM D5185m | >50 | <b>22</b> | --- | --- |
| Sodium    | ppm | ASTM D5185m |     | <b>4</b>  | --- | --- |
| Potassium | ppm | ASTM D5185m | >20 | <b>0</b>  | --- | --- |

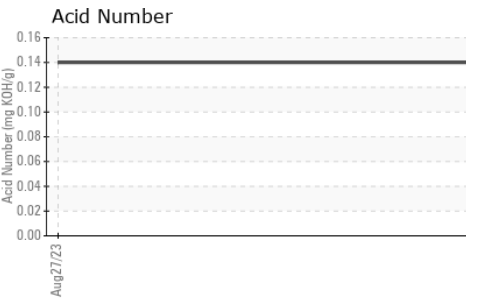
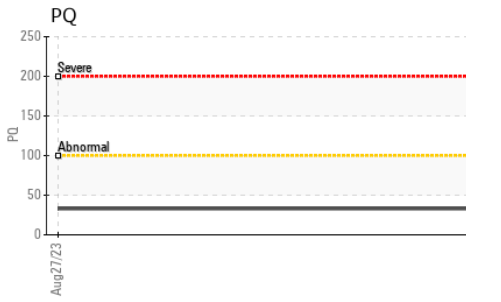
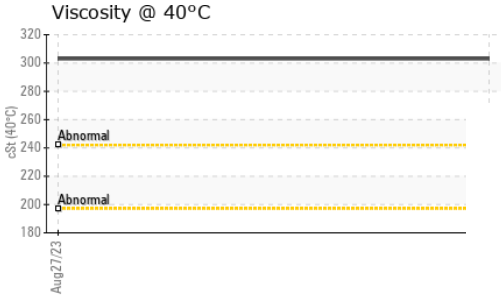
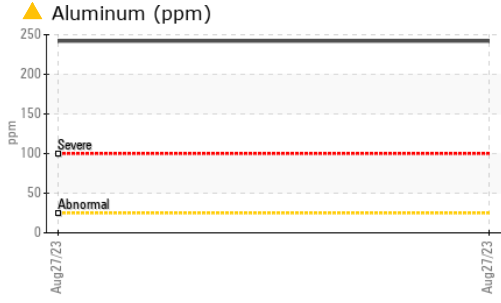
**FLUID DEGRADATION** method limit/base current history1 history2

|                  |          |            |  |             |     |     |
|------------------|----------|------------|--|-------------|-----|-----|
| Acid Number (AN) | mg KOH/g | ASTM D8045 |  | <b>0.14</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>LIGHT</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>   | --- | --- |

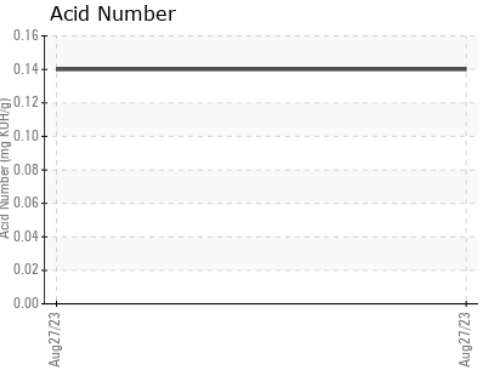
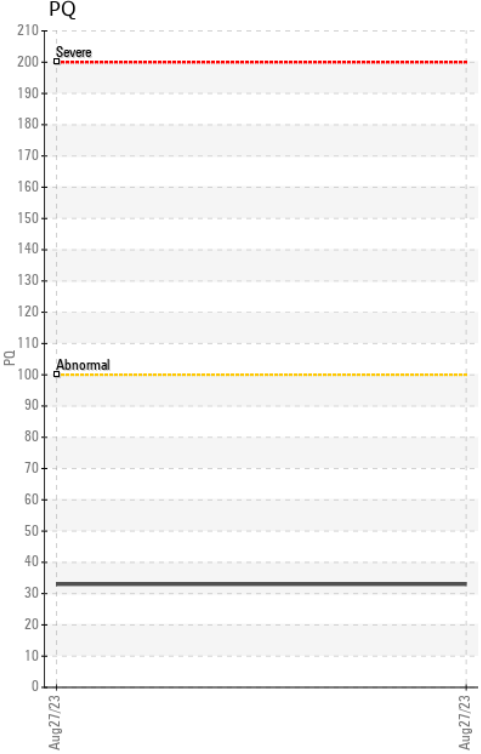
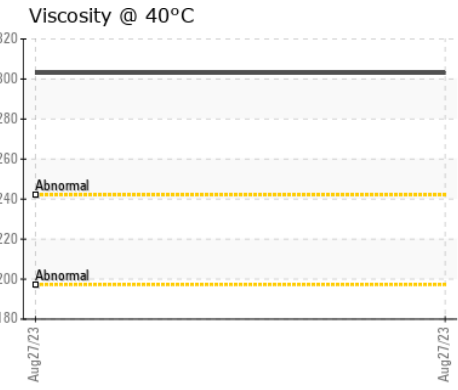
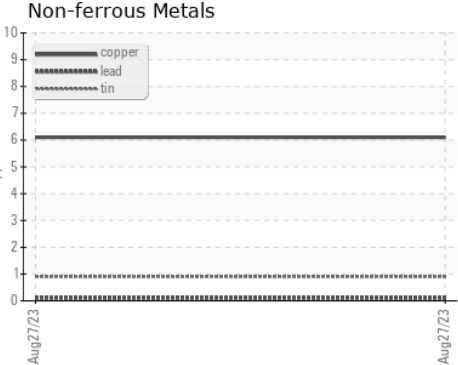
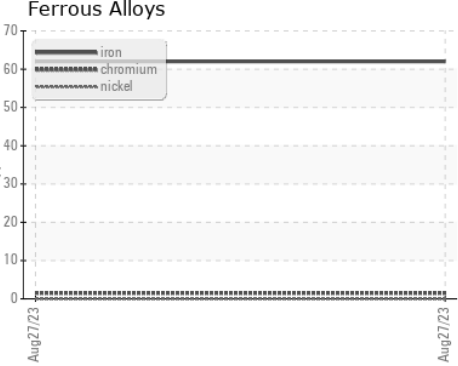
# OIL ANALYSIS REPORT



| FLUID PROPERTIES |     | method    | limit/base | current    | history1 | history2 |
|------------------|-----|-----------|------------|------------|----------|----------|
| Visc @ 40°C      | cSt | ASTM D445 |            | <b>303</b> | ---      | ---      |

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

## GRAPHS



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : PCA0103738 **Received** : 28 Aug 2023  
**Lab Number** : 05936263 **Diagnosed** : 29 Aug 2023  
**Unique Number** : 10621534 **Diagnostician** : Don Baldrige  
**Test Package** : IND 2 ( Additional Tests: PQ )

**THE HERSHEY COMPANY**  
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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)