

# OIL ANALYSIS REPORT

Sample Rating Trend



**NORMAL**



Machine Id  
**ACW1 CURBSIDE SCREW WASH PLANT**  
 Component  
**Gearbox**  
 Fluid  
**GEAR OIL LS 80W90 (5 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 AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

## SAMPLE INFORMATION

|               | method      | limit/base  | current            | history1 | history2 |
|---------------|-------------|-------------|--------------------|----------|----------|
| Sample Number | Client Info |             | <b>PCA0087863</b>  | ---      | ---      |
| Sample Date   | Client Info |             | <b>10 Mar 2024</b> | ---      | ---      |
| Machine Age   | yrs         | Client Info | <b>3</b>           | ---      | ---      |
| Oil Age       | yrs         | Client Info | <b>1</b>           | ---      | ---      |
| Oil Changed   | Client Info |             | <b>Changed</b>     | ---      | ---      |
| Sample Status |             |             | <b>NORMAL</b>      | ---      | ---      |

## CONTAMINATION

|       | method    | limit/base | current    | history1 | history2 |
|-------|-----------|------------|------------|----------|----------|
| Water | WC Method | >0.2       | <b>NEG</b> | ---      | ---      |

## WEAR METALS

|          | method | limit/base       | current      | history1 | history2 |
|----------|--------|------------------|--------------|----------|----------|
| Iron     | ppm    | ASTM D5185m >200 | <b>9</b>     | ---      | ---      |
| Chromium | ppm    | ASTM D5185m >10  | <b>0</b>     | ---      | ---      |
| Nickel   | ppm    | ASTM D5185m >10  | <b>0</b>     | ---      | ---      |
| Titanium | ppm    | ASTM D5185m      | <b>0</b>     | ---      | ---      |
| Silver   | ppm    | ASTM D5185m      | <b>0</b>     | ---      | ---      |
| Aluminum | ppm    | ASTM D5185m >25  | <b>0</b>     | ---      | ---      |
| Lead     | ppm    | ASTM D5185m >50  | <b>0</b>     | ---      | ---      |
| Copper   | ppm    | ASTM D5185m >200 | <b>0</b>     | ---      | ---      |
| Tin      | ppm    | ASTM D5185m >10  | <b>&lt;1</b> | ---      | ---      |
| Vanadium | ppm    | ASTM D5185m      | <b>0</b>     | ---      | ---      |
| Cadmium  | ppm    | ASTM D5185m      | <b>0</b>     | ---      | ---      |

## ADDITIVES

|            | method | limit/base        | current      | history1 | history2 |
|------------|--------|-------------------|--------------|----------|----------|
| Boron      | ppm    | ASTM D5185m 150   | <b>0</b>     | ---      | ---      |
| Barium     | ppm    | ASTM D5185m       | <b>0</b>     | ---      | ---      |
| Molybdenum | ppm    | ASTM D5185m       | <b>0</b>     | ---      | ---      |
| Manganese  | ppm    | ASTM D5185m       | <b>&lt;1</b> | ---      | ---      |
| Magnesium  | ppm    | ASTM D5185m 10    | <b>0</b>     | ---      | ---      |
| Calcium    | ppm    | ASTM D5185m 70    | <b>0</b>     | ---      | ---      |
| Phosphorus | ppm    | ASTM D5185m 2000  | <b>0</b>     | ---      | ---      |
| Zinc       | ppm    | ASTM D5185m 50    | <b>23</b>    | ---      | ---      |
| Sulfur     | ppm    | ASTM D5185m 20000 | <b>9261</b>  | ---      | ---      |

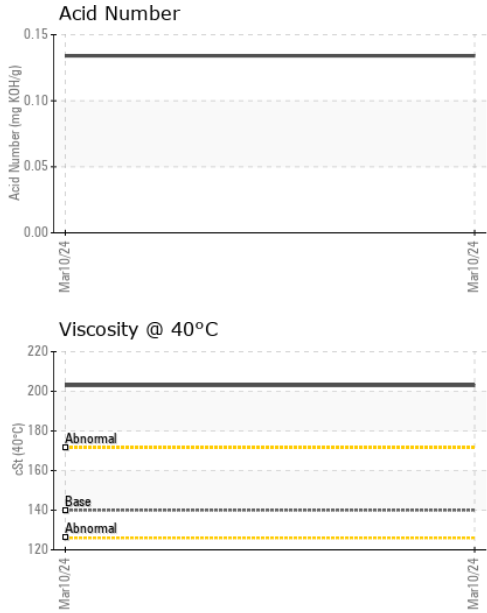
## CONTAMINANTS

|           | method | limit/base      | current      | history1 | history2 |
|-----------|--------|-----------------|--------------|----------|----------|
| Silicon   | ppm    | ASTM D5185m >50 | <b>32</b>    | ---      | ---      |
| Sodium    | ppm    | ASTM D5185m     | <b>&lt;1</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>0.134</b> | ---      | ---      |



# OIL ANALYSIS REPORT



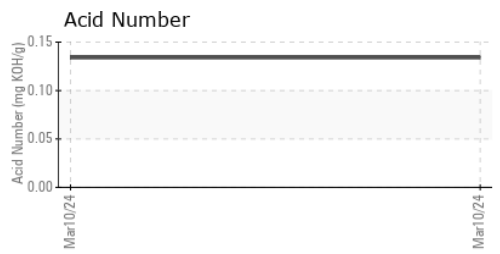
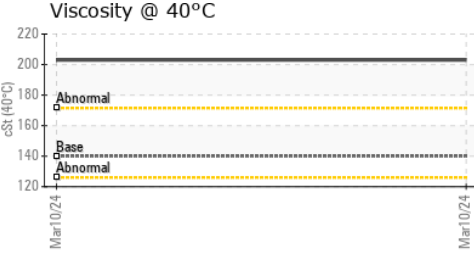
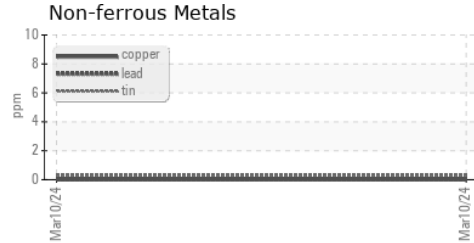
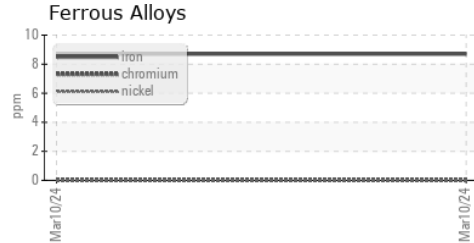
| VISUAL           | method | limit/base | current | history1     | history2 |     |
|------------------|--------|------------|---------|--------------|----------|-----|
| White Metal      | scalar | *Visual    | NONE    | <b>NONE</b>  | ---      | --- |
| Yellow Metal     | scalar | *Visual    | NONE    | <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    | >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  | 140     | <b>203</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.** : PCA0087863      **Received** : 08 Apr 2024  
**Lab Number** : **06142395**      **Tested** : 09 Apr 2024  
**Unique Number** : 10967203      **Diagnosed** : 11 Apr 2024 - Don Baldrige  
**Test Package** : IND 2

**KARTECHNERS**  
 N11829 COUNTY RD I  
 WAUPUN, WI  
 US 53963

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)

Contact: DAVE KARTECHNER  
 dave@kartechnerbrothers.com  
 T: (920)324-2874  
 F: