



# PROBLEM SUMMARY

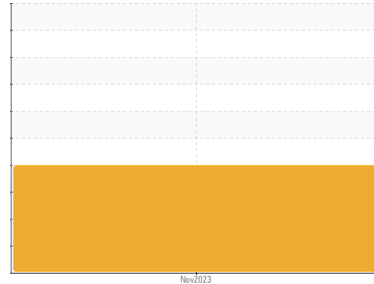
Sample Rating Trend

**WATER**

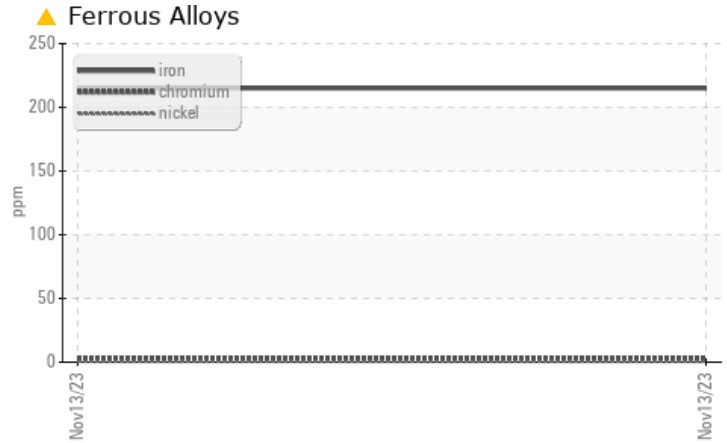
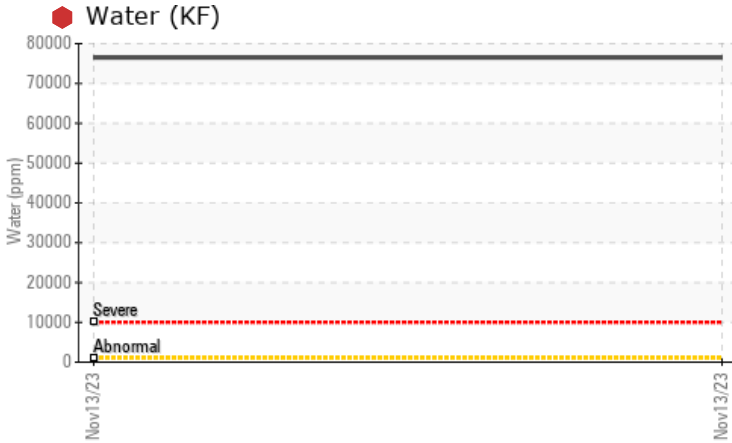


Area  
**REDUCERS - GEARBOX**  
Machine Id  
**B70037**

Component  
**Reduction Gear**  
Fluid  
**BELRAY NO-TOX HD FOOD GRADE OIL 220 (--- GAL)**



## COMPONENT CONDITION SUMMARY



## RECOMMENDATION

We advise that you check for the source of water entry. We advise that you follow the water drain-off procedure for this component, and use off-line filtration to improve the cleanliness of the system fluid. We recommend an early resample to monitor this condition. There is too much water present in this sample to perform a particle count.

## PROBLEMATIC TEST RESULTS

| Sample Status    |        |             |       | <b>SEVERE</b>  | --- | --- |
|------------------|--------|-------------|-------|----------------|-----|-----|
| Iron             | ppm    | ASTM D5185m | >150  | <b>▲ 215</b>   | --- | --- |
| Water            | %      | ASTM D6304  | >0.1  | <b>● 7.65</b>  | --- | --- |
| ppm Water        | ppm    | ASTM D6304  | >1000 | <b>● 76500</b> | --- | --- |
| Emulsified Water | scalar | *Visual     | >0.1  | <b>● 0.2%</b>  | --- | --- |

Customer Id: PAPOMA  
Sample No.: WC0808486  
Lab Number: 06010737  
Test Package: IND 2



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

| Action             | Status | Date | Done By | Description   |
|--------------------|--------|------|---------|---|
| Water Drain-off    | ---    | ---  | ?       | We advise that you follow the water drain-off procedure for this component, and use off-line filtration to improve the cleanliness of the system fluid. |
| Resample           | ---    | ---  | ?       | We recommend an early resample to monitor this condition.   |
| Check Water Access | ---    | ---  | ?       | We advise that you check for the source of water entry.   |

## HISTORICAL DIAGNOSIS



# OIL ANALYSIS REPORT

Sample Rating Trend

WATER



Area  
**REDUCERS - GEARBOX**

Machine Id  
**B70037**

Component  
**Reduction Gear**

Fluid  
**BELRAY NO-TOX HD FOOD GRADE OIL 220 (--- GAL)**



## DIAGNOSIS

### Recommendation

We advise that you check for the source of water entry. We advise that you follow the water drain-off procedure for this component, and use off-line filtration to improve the cleanliness of the system fluid. We recommend an early resample to monitor this condition. There is too much water present in this sample to perform a particle count.

### Wear

Gear wear is indicated.

### Contamination

There is a high concentration of water present in the oil.

### Fluid Condition

The AN level is acceptable for this fluid.

## SAMPLE INFORMATION

|               | method      | limit/base  | current            | history1 | history2 |
|---------------|-------------|-------------|--------------------|----------|----------|
| Sample Number | Client Info |             | <b>WC0808486</b>   | ---      | ---      |
| Sample Date   | Client Info |             | <b>13 Nov 2023</b> | ---      | ---      |
| Machine Age   | hrs         | Client Info | <b>0</b>           | ---      | ---      |
| Oil Age       | hrs         | Client Info | <b>0</b>           | ---      | ---      |
| Oil Changed   | Client Info |             | <b>Not Chngd</b>   | ---      | ---      |
| Sample Status |             |             | <b>SEVERE</b>      | ---      | ---      |

## WEAR METALS

|          | method | limit/base       | current      | history1 | history2 |
|----------|--------|------------------|--------------|----------|----------|
| Iron     | ppm    | ASTM D5185m >150 | <b>▲ 215</b> | ---      | ---      |
| Chromium | ppm    | ASTM D5185m >10  | <b>3</b>     | ---      | ---      |
| Nickel   | ppm    | ASTM D5185m >10  | <b>&lt;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 >100 | <b>0</b>     | ---      | ---      |
| Copper   | ppm    | ASTM D5185m >50  | <b>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 | <b>0</b>   | ---      | ---      |
| Barium     | ppm    | ASTM D5185m | <b>0</b>   | ---      | ---      |
| Molybdenum | ppm    | ASTM D5185m | <b>0</b>   | ---      | ---      |
| Manganese  | ppm    | ASTM D5185m | <b>3</b>   | ---      | ---      |
| Magnesium  | ppm    | ASTM D5185m | <b>0</b>   | ---      | ---      |
| Calcium    | ppm    | ASTM D5185m | <b>0</b>   | ---      | ---      |
| Phosphorus | ppm    | ASTM D5185m | <b>324</b> | ---      | ---      |
| Zinc       | ppm    | ASTM D5185m | <b>0</b>   | ---      | ---      |
| Sulfur     | ppm    | ASTM D5185m | <b>109</b> | ---      | ---      |

## CONTAMINANTS

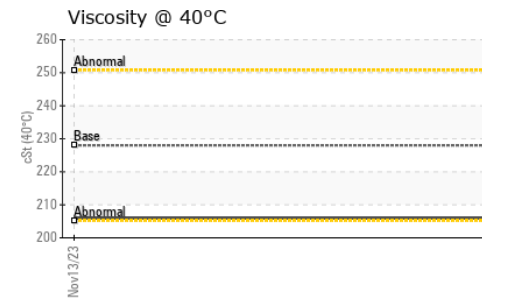
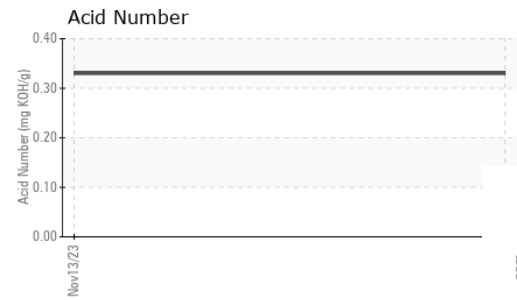
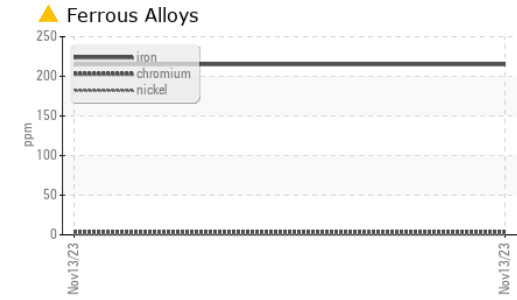
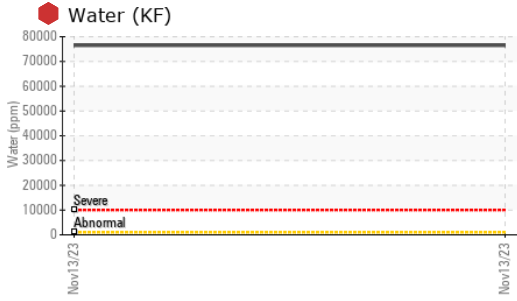
|           | method | limit/base       | current        | history1 | history2 |
|-----------|--------|------------------|----------------|----------|----------|
| Silicon   | ppm    | ASTM D5185m >50  | <b>14</b>      | ---      | ---      |
| Sodium    | ppm    | ASTM D5185m      | <b>4</b>       | ---      | ---      |
| Potassium | ppm    | ASTM D5185m >20  | <b>3</b>       | ---      | ---      |
| Water     | %      | ASTM D6304 >0.1  | <b>● 7.65</b>  | ---      | ---      |
| ppm Water | ppm    | ASTM D6304 >1000 | <b>● 76500</b> | ---      | ---      |

## FLUID DEGRADATION

|                  | method   | limit/base | current     | history1 | history2 |
|------------------|----------|------------|-------------|----------|----------|
| Acid Number (AN) | mg KOH/g | ASTM D8045 | <b>0.33</b> | ---      | ---      |



# OIL ANALYSIS REPORT



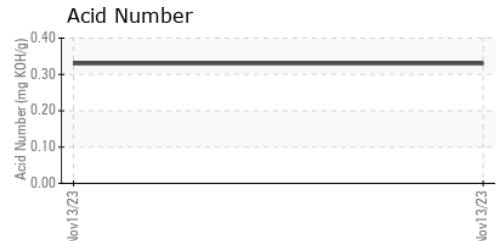
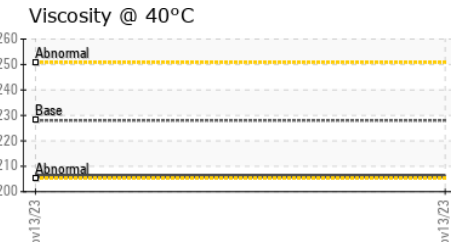
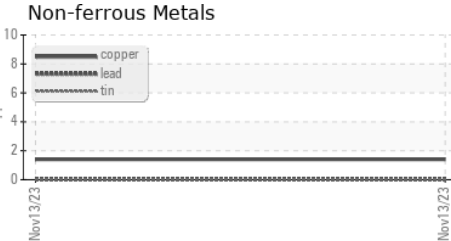
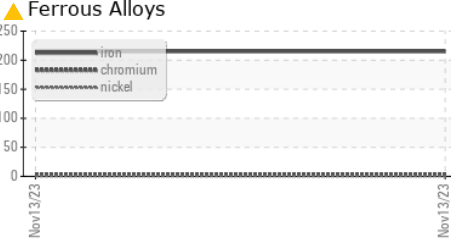
| VISUAL           | method | limit/base | current | history1 | history2 |
|------------------|--------|------------|---------|----------|----------|
| White Metal      | scalar | *Visual    | NONE    | NONE     | ---      |
| Yellow Metal     | scalar | *Visual    | NONE    | NONE     | ---      |
| Precipitate      | scalar | *Visual    | NONE    | NONE     | ---      |
| Silt             | scalar | *Visual    | NONE    | NONE     | ---      |
| Debris           | scalar | *Visual    | NONE    | NONE     | ---      |
| Sand/Dirt        | scalar | *Visual    | NONE    | NONE     | ---      |
| Appearance       | scalar | *Visual    | NORML   | NORML    | ---      |
| Odor             | scalar | *Visual    | NORML   | NORML    | ---      |
| Emulsified Water | scalar | *Visual    | >0.1    | 0.2%     | ---      |
| Free Water       | scalar | *Visual    |         | NEG      | ---      |

| FLUID PROPERTIES | method | limit/base    | current | history1 | history2 |
|------------------|--------|---------------|---------|----------|----------|
| Visc @ 40°C      | cSt    | ASTM D445 228 | 206     | ---      | ---      |

| SAMPLE IMAGES | method | limit/base | current | history1 | history2 |
|---------------|--------|------------|---------|----------|----------|
|---------------|--------|------------|---------|----------|----------|

|        |  |  |  |          |          |
|--------|--|--|--|----------|----------|
| Color  |  |  |  | no image | no image |
| Bottom |  |  |  | no image | no image |

## GRAPHS



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : WC0808486 **Received** : 17 Nov 2023  
**Lab Number** : 06010737 **Diagnosed** : 20 Nov 2023  
**Unique Number** : 10749881 **Diagnostician** : Don Baldrige  
**Test Package** : IND 2 ( Additional Tests: KF, PrtCount )

**PAPILLION FOODS**  
 10808 S 132ND ST  
 OMAHA, NE  
 US 68138  
 Contact: NEIL ARIANO  
 njariano@hormel.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)