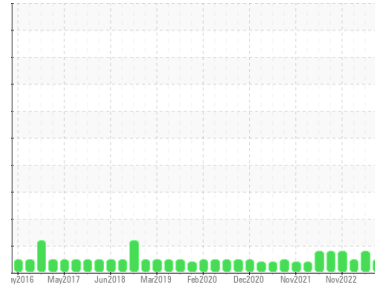




# OIL ANALYSIS REPORT

Sample Rating Trend



**NORMAL**



Machine Id  
**PLATE FREEZER POWER PACK 2 (S/N S0395MFMPHAA3)**

Component  
**Hydraulic System**

Fluid  
**NOT GIVEN (65 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. The amount and size of particulates present in the system are acceptable.

### 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>USP0000607</b>  | USP245005   | USP246609   |
| Sample Date   | Client Info | <b>10 Aug 2023</b> | 10 May 2023 | 13 Feb 2023 |
| Machine Age   | hrs         | Client Info        | <b>0</b>    | 0           |
| Oil Age       | hrs         | Client Info        | <b>0</b>    | 0           |
| Oil Changed   | Client Info | <b>N/A</b>         | N/A         | N/A         |
| Sample Status |             | <b>NORMAL</b>      | ATTENTION   | NORMAL      |

## WEAR METALS

| method   | limit/base | current         | history1     | history2 |    |
|----------|------------|-----------------|--------------|----------|----|
| Iron     | ppm        | ASTM D5185m >20 | <b>5</b>     | 3        | 5  |
| Chromium | ppm        | ASTM D5185m >20 | <b>3</b>     | 3        | 3  |
| Nickel   | ppm        | ASTM D5185m >20 | <b>0</b>     | <1       | 0  |
| Titanium | ppm        | ASTM D5185m     | <b>&lt;1</b> | <1       | 0  |
| Silver   | ppm        | ASTM D5185m     | <b>&lt;1</b> | 0        | 0  |
| Aluminum | ppm        | ASTM D5185m >20 | <b>&lt;1</b> | <1       | 0  |
| Lead     | ppm        | ASTM D5185m >20 | <b>0</b>     | 0        | 0  |
| Copper   | ppm        | ASTM D5185m >20 | <b>4</b>     | 4        | 4  |
| Tin      | ppm        | ASTM D5185m >20 | <b>&lt;1</b> | <1       | <1 |
| Vanadium | ppm        | ASTM D5185m     | <b>&lt;1</b> | 0        | 0  |
| Cadmium  | ppm        | ASTM D5185m     | <b>0</b>     | 0        | 0  |

## ADDITIVES

| method     | limit/base | current     | history1     | history2 |     |
|------------|------------|-------------|--------------|----------|-----|
| Boron      | ppm        | ASTM D5185m | <b>0</b>     | 0        | 0   |
| Barium     | ppm        | ASTM D5185m | <b>0</b>     | 0        | 2   |
| Molybdenum | ppm        | ASTM D5185m | <b>0</b>     | <1       | 0   |
| Manganese  | ppm        | ASTM D5185m | <b>&lt;1</b> | <1       | 0   |
| Magnesium  | ppm        | ASTM D5185m | <b>1</b>     | 0        | <1  |
| Calcium    | ppm        | ASTM D5185m | <b>0</b>     | 0        | <1  |
| Phosphorus | ppm        | ASTM D5185m | <b>140</b>   | 148      | 127 |
| Zinc       | ppm        | ASTM D5185m | <b>64</b>    | 66       | 75  |
| Sulfur     | ppm        | ASTM D5185m | <b>93</b>    | 0        | 72  |

## CONTAMINANTS

| method    | limit/base | current          | history1     | history2 |       |
|-----------|------------|------------------|--------------|----------|-------|
| Silicon   | ppm        | ASTM D5185m >15  | <b>3</b>     | 3        | 3     |
| Sodium    | ppm        | ASTM D5185m      | <b>1</b>     | 1        | 0     |
| Potassium | ppm        | ASTM D5185m >20  | <b>&lt;1</b> | <1       | <1    |
| Water     | %          | ASTM D6304 >0.05 | <b>0.003</b> | 0.002    | 0.001 |
| ppm Water | ppm        | ASTM D6304 >500  | <b>33.3</b>  | 24.5     | 14.2  |

## FLUID CLEANLINESS

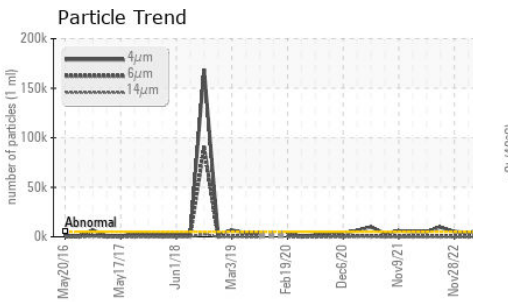
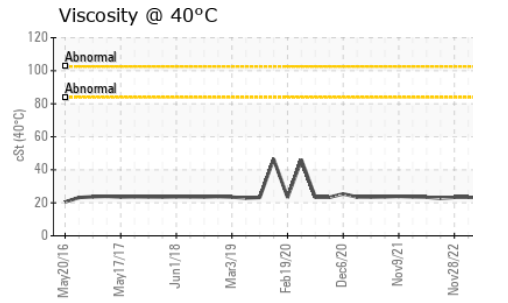
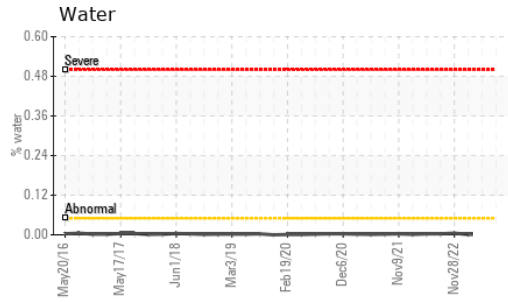
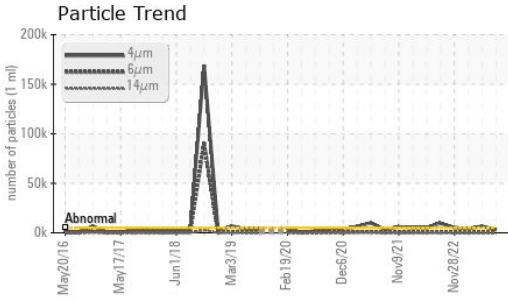
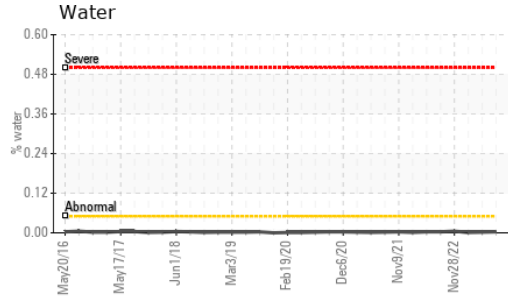
| method          | limit/base             | current         | history1   | history2 |
|-----------------|------------------------|-----------------|------------|----------|
| Particles >4µm  | ASTM D7647 >5000       | <b>3110</b>     | ▲ 6686     | 4313     |
| Particles >6µm  | ASTM D7647 >1300       | <b>353</b>      | 671        | 342      |
| Particles >14µm | ASTM D7647 >160        | <b>10</b>       | 7          | 3        |
| Particles >21µm | ASTM D7647 >40         | <b>2</b>        | 1          | 1        |
| Particles >38µm | ASTM D7647 >10         | <b>1</b>        | 0          | 0        |
| Particles >71µm | ASTM D7647 >3          | <b>0</b>        | 0          | 0        |
| Oil Cleanliness | ISO 4406 (c) >19/17/14 | <b>19/16/10</b> | ▲ 20/17/10 | 19/16/9  |

## FLUID DEGRADATION

| method           | limit/base | current    | history1    | history2 |      |
|------------------|------------|------------|-------------|----------|------|
| Acid Number (AN) | mg KOH/g   | ASTM D8045 | <b>0.35</b> | 0.33     | 0.33 |



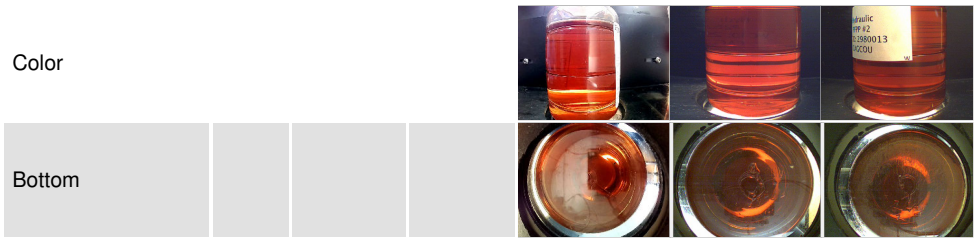
# OIL ANALYSIS REPORT



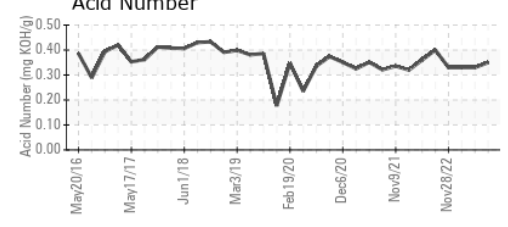
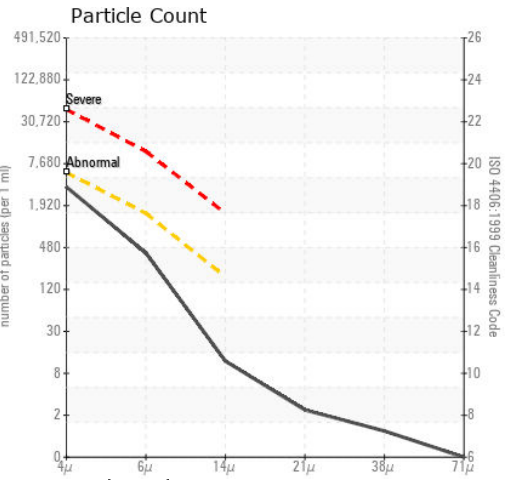
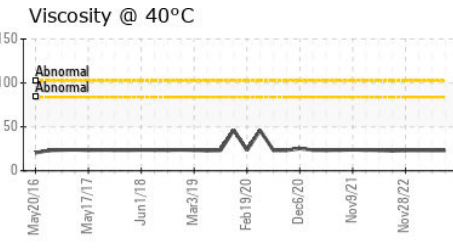
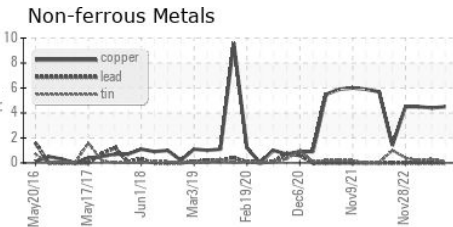
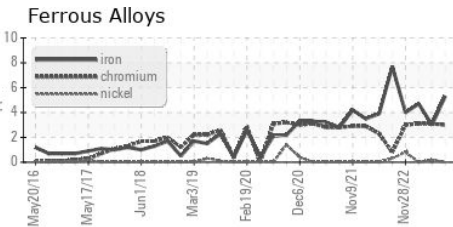
| VISUAL           | method | limit/base | current | history1 | history2 |
|------------------|--------|------------|---------|----------|----------|
| White Metal      | scalar | *Visual    | NONE    | NONE     | NONE     |
| Yellow Metal     | scalar | *Visual    | NONE    | NONE     | NONE     |
| Precipitate      | scalar | *Visual    | NONE    | NONE     | NONE     |
| Silt             | scalar | *Visual    | NONE    | NONE     | NONE     |
| Debris           | scalar | *Visual    | NONE    | NONE     | NONE     |
| Sand/Dirt        | scalar | *Visual    | NONE    | NONE     | NONE     |
| Appearance       | scalar | *Visual    | NORML   | NORML    | NORML    |
| Odor             | scalar | *Visual    | NORML   | NORML    | NORML    |
| Emulsified Water | scalar | *Visual    | >0.05   | NEG      | NEG      |
| Free Water       | scalar | *Visual    |         | NEG      | NEG      |

| FLUID PROPERTIES | method | limit/base | current | history1 | history2 |
|------------------|--------|------------|---------|----------|----------|
| Visc @ 40°C      | cSt    | ASTM D445  | 23.1    | 23.2     | 23.3     |

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



## GRAPHS



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : USP0000607  
**Lab Number** : 05926150  
**Unique Number** : 10606097  
**Test Package** : IND 2

**CONAGRA FOODS - COUNCIL BLUFFS**  
 1023 4TH ST  
 COUNCIL BLUFFS, IA  
 US 51503  
 Contact:

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: