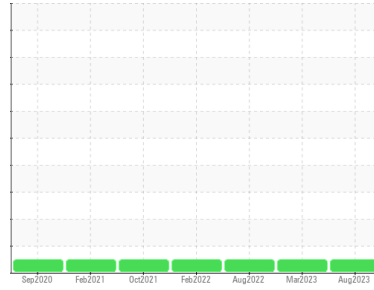


# OIL ANALYSIS REPORT

Sample Rating Trend

**NORMAL**



Machine Id  
**FRICK FRICK 701 (S/N 200636)**  
 Component  
**Compressor**  
 Fluid  
**PETRO CANADA REFLO SYNTHETIC 68A LOW TEMP FLUID (--- 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>PCA0102069</b>  | PCA0092591  | PCA0067426  |
| Sample Date   | Client Info |             | <b>16 Aug 2023</b> | 09 Mar 2023 | 10 Aug 2022 |
| Machine Age   | hrs         | Client Info | <b>0</b>           | 0           | 0           |
| Oil Age       | hrs         | Client Info | <b>0</b>           | 0           | 0           |
| Oil Changed   | Client Info |             | <b>N/A</b>         | N/A         | N/A         |
| Sample Status |             |             | <b>NORMAL</b>      | NORMAL      | NORMAL      |

## WEAR METALS

|          | method | limit/base      | current      | history1 | history2 |
|----------|--------|-----------------|--------------|----------|----------|
| Iron     | ppm    | ASTM D5185m >50 | <b>0</b>     | <1       | 0        |
| Chromium | ppm    | ASTM D5185m >10 | <b>0</b>     | 0        | 0        |
| Nickel   | ppm    | ASTM D5185m     | <b>0</b>     | <1       | 0        |
| Titanium | ppm    | ASTM D5185m     | <b>0</b>     | 0        | 0        |
| Silver   | ppm    | ASTM D5185m     | <b>0</b>     | 0        | 0        |
| Aluminum | ppm    | ASTM D5185m >25 | <b>0</b>     | <1       | 0        |
| Lead     | ppm    | ASTM D5185m >25 | <b>0</b>     | 0        | 0        |
| Copper   | ppm    | ASTM D5185m >50 | <b>&lt;1</b> | 0        | 0        |
| Tin      | ppm    | ASTM D5185m >15 | <b>&lt;1</b> | 0        | 0        |
| Antimony | ppm    | ASTM D5185m     | <b>---</b>   | ---      | ---      |
| Vanadium | ppm    | ASTM D5185m     | <b>0</b>     | 0        | 0        |
| Cadmium  | ppm    | ASTM D5185m     | <b>0</b>     | 0        | 0        |

## ADDITIVES

|            | method | limit/base    | current      | history1 | history2 |
|------------|--------|---------------|--------------|----------|----------|
| Boron      | ppm    | ASTM D5185m 0 | <b>0</b>     | 0        | <1       |
| Barium     | ppm    | ASTM D5185m 0 | <b>0</b>     | 0        | 0        |
| Molybdenum | ppm    | ASTM D5185m 0 | <b>0</b>     | 0        | 0        |
| Manganese  | ppm    | ASTM D5185m   | <b>&lt;1</b> | 0        | 0        |
| Magnesium  | ppm    | ASTM D5185m 0 | <b>0</b>     | 0        | 0        |
| Calcium    | ppm    | ASTM D5185m 0 | <b>&lt;1</b> | 0        | 0        |
| Phosphorus | ppm    | ASTM D5185m 0 | <b>6</b>     | <1       | 4        |
| Zinc       | ppm    | ASTM D5185m 0 | <b>0</b>     | 0        | 0        |
| Sulfur     | ppm    | ASTM D5185m 0 | <b>26</b>    | 23       | 18       |

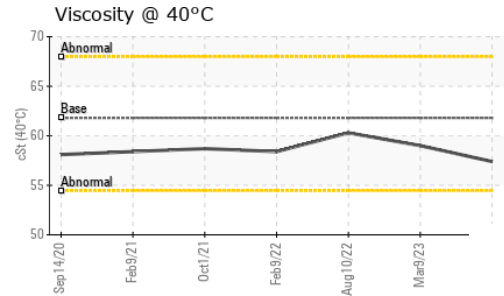
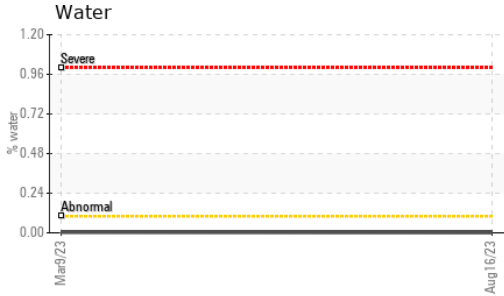
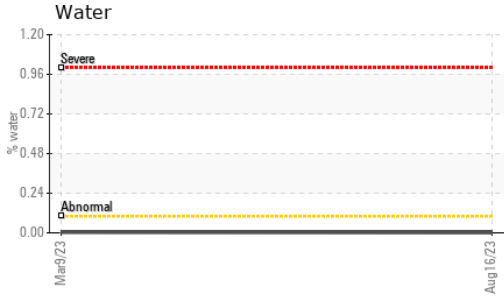
## CONTAMINANTS

|           | method | limit/base       | current      | history1 | history2 |
|-----------|--------|------------------|--------------|----------|----------|
| Silicon   | ppm    | ASTM D5185m >25  | <b>2</b>     | 3        | 3        |
| Sodium    | ppm    | ASTM D5185m      | <b>2</b>     | 0        | 0        |
| Potassium | ppm    | ASTM D5185m >20  | <b>0</b>     | <1       | 0        |
| Water     | %      | ASTM D6304 >0.1  | <b>0.001</b> | 0.003    | ---      |
| ppm Water | ppm    | ASTM D6304 >1000 | <b>11.5</b>  | 31.2     | ---      |

## FLUID DEGRADATION

|                  | method   | limit/base     | current      | history1 | history2 |
|------------------|----------|----------------|--------------|----------|----------|
| Acid Number (AN) | mg KOH/g | ASTM D8045 0.1 | <b>0.015</b> | 0.016    | ---      |

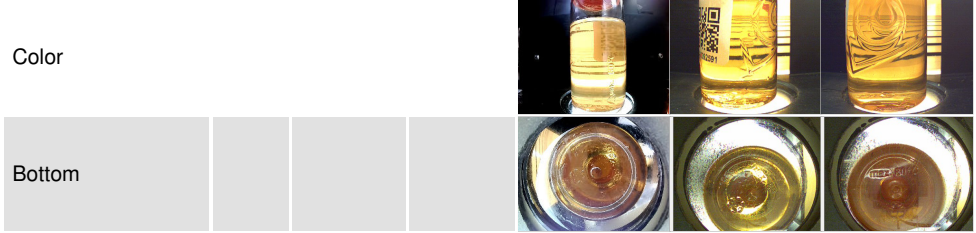
# OIL ANALYSIS REPORT



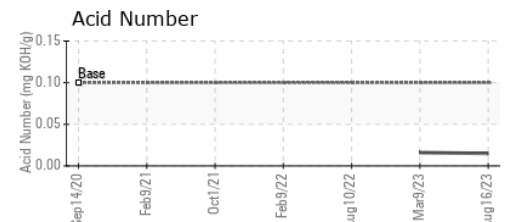
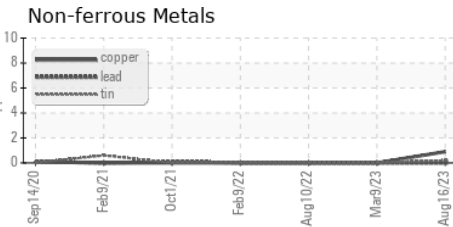
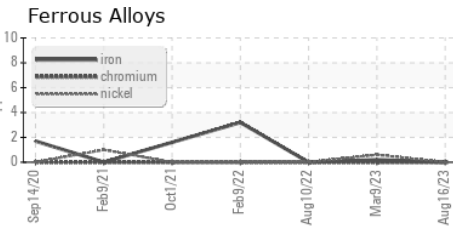
| VISUAL           | method | limit/base | current | history1 | history2 |
|------------------|--------|------------|---------|----------|----------|
| White Metal      | scalar | *Visual    | NONE    | NONE     | NONE     |
| Yellow Metal     | scalar | *Visual    | NONE    | NONE     | NONE     |
| 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    | >0.1    | NEG      | NEG      |
| Free Water       | scalar | *Visual    |         | NEG      | NEG      |

| FLUID PROPERTIES | method | limit/base | current | history1 | history2 |
|------------------|--------|------------|---------|----------|----------|
| Visc @ 40°C      | cSt    | ASTM D445  | 61.8    | 57.4     | 59.0     |

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



## GRAPHS



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : PCA0102069 **Received** : 22 Aug 2023  
**Lab Number** : 05931619 **Diagnosed** : 24 Aug 2023  
**Unique Number** : 10616890 **Diagnostician** : Angela Borella  
**Test Package** : IND 2 ( Additional Tests: KF, PrtCount )

**SMITHFIELD FOODS**  
 ONE SWEET APPLEWOOD LANE  
 CUDAHY, WI  
 US 53110  
 Contact: PETE LERAY  
 pleray@smithfield.com  
 T: (414)918-3258  
 F:

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)