



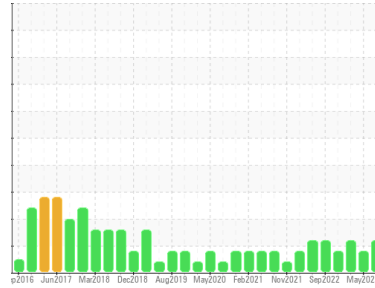
# PROBLEM SUMMARY

## Sample Rating Trend

ISO

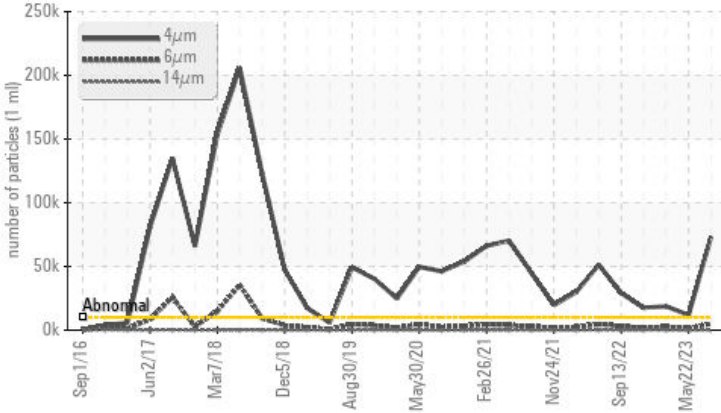


Area  
**RP-101**  
 Machine Id  
**B57008 - LOW LEVEL FEED SCREW**  
 Component  
**Gearbox**  
 Fluid  
**PETRO CANADA PURITY FG EP GEAR FLUID 460 (--- QTS)**



## COMPONENT CONDITION SUMMARY

### ▲ Particle Trend



## RECOMMENDATION

We recommend you service the filters on this component if applicable. Resample at the next service interval to monitor.

## PROBLEMATIC TEST RESULTS

| Sample Status   |              |           | <b>ABNORMAL</b>   | ATTENTION  | ATTENTION  |
|-----------------|--------------|-----------|-------------------|------------|------------|
| Particles >4µm  | ASTM D7647   | >10000    | <b>▲ 73153</b>    | ▲ 11886    | ▲ 18655    |
| Particles >6µm  | ASTM D7647   | >2500     | <b>▲ 5020</b>     | 1279       | ▲ 2585     |
| Oil Cleanliness | ISO 4406 (c) | >20/18/15 | <b>▲ 23/20/14</b> | ▲ 21/17/12 | ▲ 21/19/14 |

Customer Id: HORAUS  
 Sample No.: WC06029351  
 Lab Number: 06029351  
 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   |
|---------------|--------|------|---------|---|
| Change Filter | ---    | ---  | ?       | We recommend you service the filters on this component if applicable. |

## HISTORICAL DIAGNOSIS

### 22 May 2023 Diag: Jonathan Hester

ISO



No corrective action is recommended at this time. Resample at the next service interval to monitor. All component wear rates are normal. There is a moderate amount of silt (particulates < 6 microns in size) present in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

view report



### 22 Feb 2023 Diag: Don Baldrige

ISO



No corrective action is recommended at this time. Resample at the next service interval to monitor. All component wear rates are normal. There is a moderate amount of silt (particulates < 6 microns in size) present in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

view report



### 29 Nov 2022 Diag: Don Baldrige

ISO



No corrective action is recommended at this time. Resample at the next service interval to monitor. All component wear rates are normal. There is a moderate amount of silt (particulates < 6 microns in size) present in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

view report



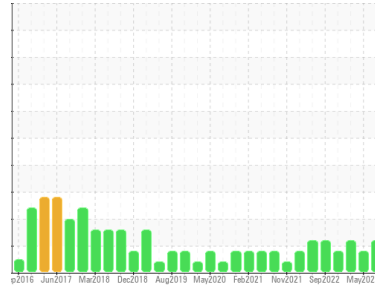


# OIL ANALYSIS REPORT

Sample Rating Trend

ISO

Area  
**RP-101**  
 Machine Id  
**B57008 - LOW LEVEL FEED SCREW**  
 Component  
**Gearbox**  
 Fluid  
**PETRO CANADA PURITY FG EP GEAR FLUID 460 (--- QTS)**



## DIAGNOSIS

### Recommendation

We recommend you service the filters on this component if applicable. Resample at the next service interval to monitor.

### Wear

All component wear rates are normal.

### Contamination

There is a high amount of silt (particulates < 14 microns in size) present 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>WC06029351</b>  | WC0781516   | WC0755355   |
| Sample Date   | Client Info |             | <b>02 Dec 2023</b> | 22 May 2023 | 22 Feb 2023 |
| Machine Age   | mls         | Client Info | <b>0</b>           | 0           | 0           |
| Oil Age       | mls         | Client Info | <b>0</b>           | 0           | 0           |
| Oil Changed   | Client Info |             | <b>N/A</b>         | N/A         | N/A         |
| Sample Status |             |             | <b>ABNORMAL</b>    | ATTENTION   | ATTENTION   |

## CONTAMINATION

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

## WEAR METALS

|          | method | limit/base  | current | history1     | history2 |    |
|----------|--------|-------------|---------|--------------|----------|----|
| Iron     | ppm    | ASTM D5185m | >200    | <b>4</b>     | 9        | 8  |
| Chromium | ppm    | ASTM D5185m | >15     | <b>&lt;1</b> | 0        | 0  |
| Nickel   | ppm    | ASTM D5185m | >15     | <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>1</b>     | 0        | 0  |
| Lead     | ppm    | ASTM D5185m | >100    | <b>0</b>     | 0        | 0  |
| Copper   | ppm    | ASTM D5185m | >200    | <b>1</b>     | 2        | <1 |
| Tin      | ppm    | ASTM D5185m | >25     | <b>0</b>     | 0        | 0  |
| 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 |         | <b>17</b>    | 20       | 19   |
| Barium     | ppm    | ASTM D5185m |         | <b>3</b>     | 0        | 0    |
| Molybdenum | ppm    | ASTM D5185m |         | <b>0</b>     | 0        | 0    |
| Manganese  | ppm    | ASTM D5185m |         | <b>0</b>     | <1       | <1   |
| Magnesium  | ppm    | ASTM D5185m |         | <b>&lt;1</b> | <1       | 0    |
| Calcium    | ppm    | ASTM D5185m |         | <b>&lt;1</b> | 2        | 1    |
| Phosphorus | ppm    | ASTM D5185m | 135     | <b>376</b>   | 346      | 351  |
| Zinc       | ppm    | ASTM D5185m |         | <b>23</b>    | 11       | 1    |
| Sulfur     | ppm    | ASTM D5185m | 660     | <b>5155</b>  | 5088     | 4665 |

## CONTAMINANTS

|           | method | limit/base  | current | history1     | history2 |    |
|-----------|--------|-------------|---------|--------------|----------|----|
| Silicon   | ppm    | ASTM D5185m | >50     | <b>&lt;1</b> | <1       | 2  |
| Sodium    | ppm    | ASTM D5185m |         | <b>0</b>     | 1        | 0  |
| Potassium | ppm    | ASTM D5185m | >20     | <b>2</b>     | 2        | <1 |

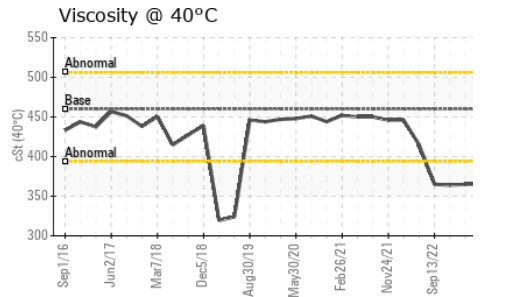
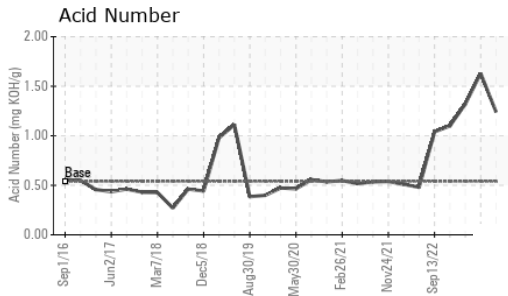
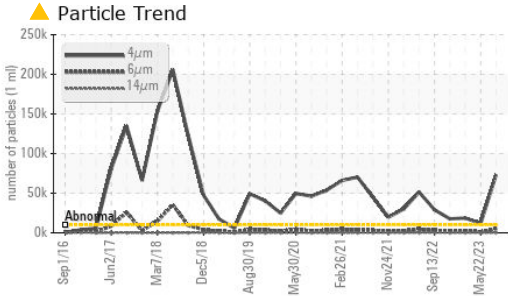
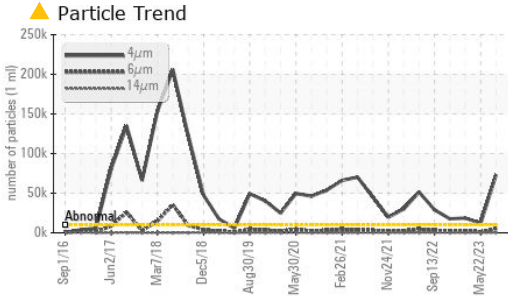
## FLUID CLEANLINESS

|                 | method       | limit/base | current           | history1   | history2   |
|-----------------|--------------|------------|-------------------|------------|------------|
| Particles >4µm  | ASTM D7647   | >10000     | <b>▲ 73153</b>    | ▲ 11886    | ▲ 18655    |
| Particles >6µm  | ASTM D7647   | >2500      | <b>▲ 5020</b>     | 1279       | ▲ 2585     |
| Particles >14µm | ASTM D7647   | >320       | <b>120</b>        | 30         | 134        |
| Particles >21µm | ASTM D7647   | >80        | <b>49</b>         | 7          | 36         |
| Particles >38µm | ASTM D7647   | >20        | <b>4</b>          | 1          | 2          |
| Particles >71µm | ASTM D7647   | >4         | <b>1</b>          | 1          | 0          |
| Oil Cleanliness | ISO 4406 (c) | >20/18/15  | <b>▲ 23/20/14</b> | ▲ 21/17/12 | ▲ 21/19/14 |

## FLUID DEGRADATION

|                  | method   | limit/base | current | history1    | history2 |      |
|------------------|----------|------------|---------|-------------|----------|------|
| Acid Number (AN) | mg KOH/g | ASTM D8045 | 0.54    | <b>1.24</b> | 1.63     | 1.32 |

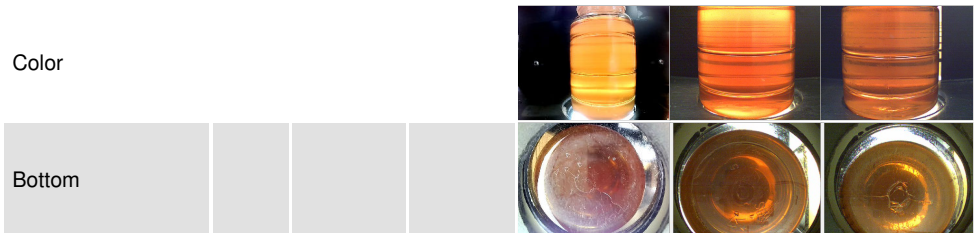
# OIL ANALYSIS REPORT



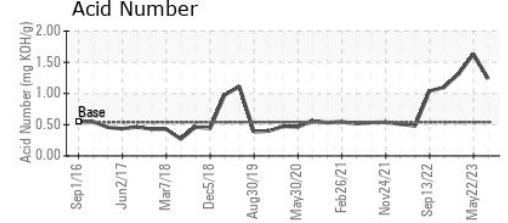
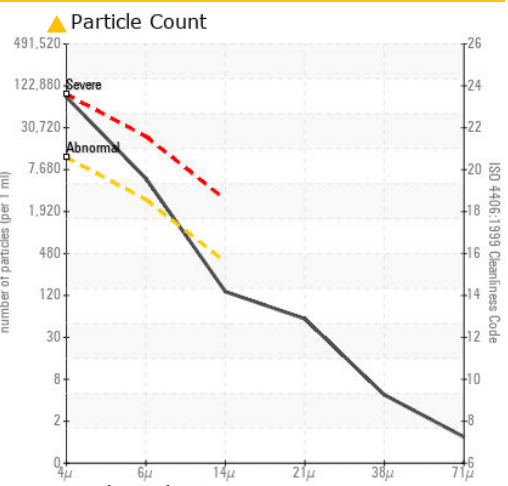
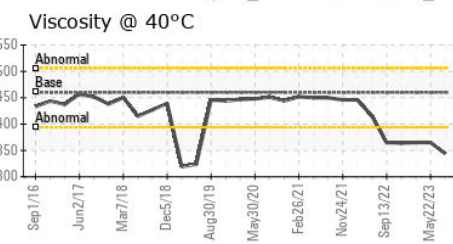
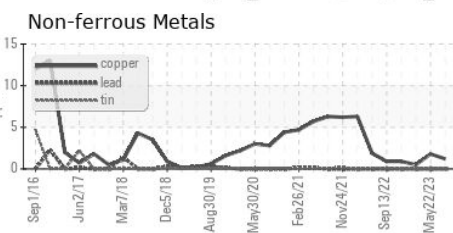
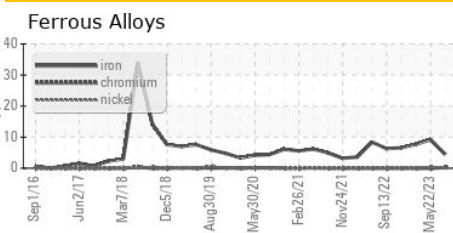
| VISUAL           | method | limit/base | current | history1 | history2 |
|------------------|--------|------------|---------|----------|----------|
| White Metal      | scalar | *Visual    | NONE    | NONE     | NONE     |
| Yellow Metal     | scalar | *Visual    | NONE    | NONE     | NONE     |
| 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    | >0.2    | NEG      | NEG      |
| Free Water       | scalar | *Visual    |         | NEG      | NEG      |

| FLUID PROPERTIES | method | limit/base    | current | history1 | history2 |
|------------------|--------|---------------|---------|----------|----------|
| Visc @ 40°C      | cSt    | ASTM D445 460 | 344     | 365      | 365      |

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



## GRAPHS



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : WC06029351 **Received** : 08 Dec 2023  
**Lab Number** : 06029351 **Diagnosed** : 11 Dec 2023  
**Unique Number** : 10779142 **Diagnostician** : Don Baldrige  
**Test Package** : IND 2 ( Additional Tests: PrtCount )

**HORMEL FOODS - AUSTIN**  
 1101 NORTH MAIN ST  
 AUSTIN, MN  
 US 55912  
 Contact: RYAN LOWE  
 rslowe@hormel.com  
 T: (507)437-5674  
 F: (507)437-9805

Certificate L2367  
 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)