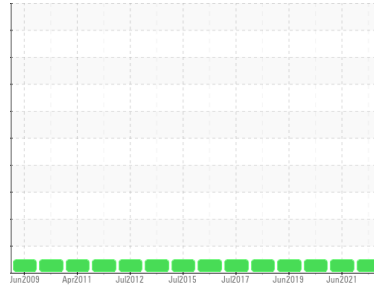




# OIL ANALYSIS REPORT

Sample Rating Trend

**NORMAL**



Machine Id  
**QUINCY 208**

Component  
**Compressor**

Fluid  
**ROYAL PURPLE SYNFILM 46 (40 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>RP0033659</b>   | RP0005542   | RP0005637   |
| Sample Date   | Client Info |             | <b>28 Aug 2023</b> | 29 Jun 2021 | 24 Jun 2020 |
| Machine Age   | hrs         | Client Info | <b>92690</b>       | 89236       | 87348       |
| Oil Age       | hrs         | Client Info | <b>4144</b>        | 690         | 5799        |
| Oil Changed   | Client Info |             | <b>N/A</b>         | Not Changd  | Not Changd  |
| Sample Status |             |             | <b>NORMAL</b>      | NORMAL      | NORMAL      |

## WEAR METALS

|          | method | limit/base      | current      | history1 | history2 |
|----------|--------|-----------------|--------------|----------|----------|
| Iron     | ppm    | ASTM D5185m >50 | <b>0</b>     | <1       | <1       |
| Chromium | ppm    | ASTM D5185m >10 | <b>&lt;1</b> | 0        | 0        |
| Nickel   | ppm    | ASTM D5185m     | <b>&lt;1</b> | <1       | <1       |
| Titanium | ppm    | ASTM D5185m     | <b>&lt;1</b> | 0        | 0        |
| Silver   | ppm    | ASTM D5185m     | <b>0</b>     | 0        | <1       |
| Aluminum | ppm    | ASTM D5185m >25 | <b>2</b>     | <1       | <1       |
| Lead     | ppm    | ASTM D5185m >25 | <b>0</b>     | <1       | 0        |
| Copper   | ppm    | ASTM D5185m >50 | <b>3</b>     | 2        | 6        |
| Tin      | ppm    | ASTM D5185m >15 | <b>0</b>     | 0        | <1       |
| Antimony | ppm    | ASTM D5185m     | <b>---</b>   | 0        | 0        |
| Vanadium | ppm    | ASTM D5185m     | <b>0</b>     | 0        | 0        |
| Cadmium  | ppm    | ASTM D5185m     | <b>&lt;1</b> | <1       | 0        |

## ADDITIVES

|            | method | limit/base  | current      | history1 | history2 |
|------------|--------|-------------|--------------|----------|----------|
| Boron      | ppm    | ASTM D5185m | <b>0</b>     | 20       | 0        |
| Barium     | ppm    | ASTM D5185m | <b>0</b>     | 0        | 0        |
| Molybdenum | ppm    | ASTM D5185m | <b>&lt;1</b> | 0        | 0        |
| Manganese  | ppm    | ASTM D5185m | <b>0</b>     | 0        | 0        |
| Magnesium  | ppm    | ASTM D5185m | <b>&lt;1</b> | 5        | 2        |
| Calcium    | ppm    | ASTM D5185m | <b>0</b>     | 0        | <1       |
| Phosphorus | ppm    | ASTM D5185m | <b>6</b>     | 6        | 10       |
| Zinc       | ppm    | ASTM D5185m | <b>0</b>     | 20       | 18       |

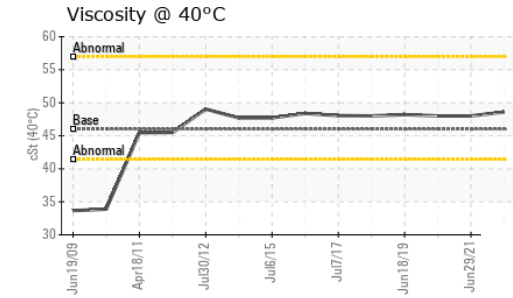
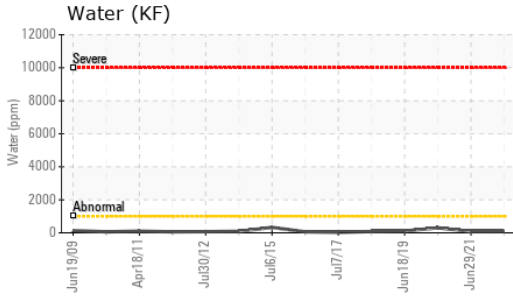
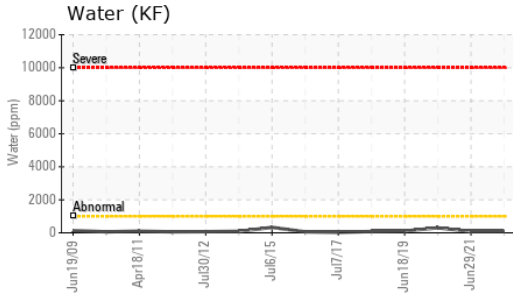
## CONTAMINANTS

|           | method | limit/base       | current      | history1 | history2 |
|-----------|--------|------------------|--------------|----------|----------|
| Silicon   | ppm    | ASTM D5185m >25  | <b>&lt;1</b> | 1        | 1        |
| Sodium    | ppm    | ASTM D5185m      | <b>0</b>     | 1        | 2        |
| Potassium | ppm    | ASTM D5185m >20  | <b>&lt;1</b> | 0        | 1        |
| Water     | %      | ASTM D6304 >0.1  | <b>0.009</b> | 0.008    | 0.030    |
| ppm Water | ppm    | ASTM D6304 >1000 | <b>97</b>    | 86.5     | 302.1    |

## FLUID DEGRADATION

|                  | method   | limit/base      | current     | history1 | history2 |
|------------------|----------|-----------------|-------------|----------|----------|
| Acid Number (AN) | mg KOH/g | ASTM D8045 0.25 | <b>0.31</b> | 0.320    | 0.376    |

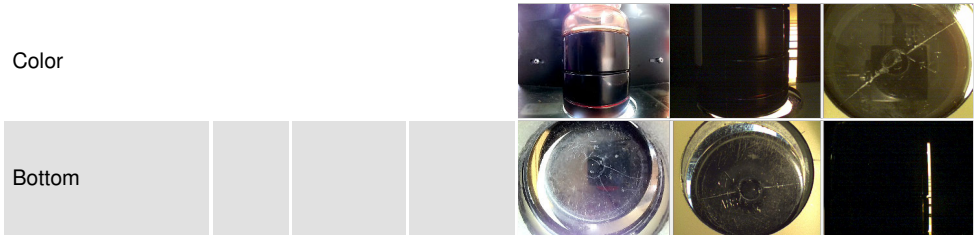
# OIL ANALYSIS REPORT



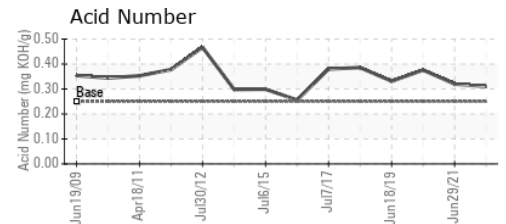
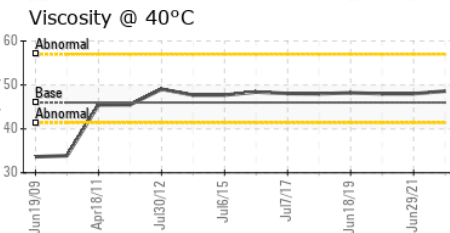
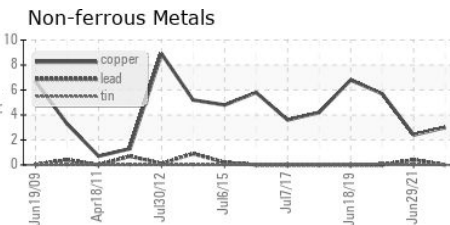
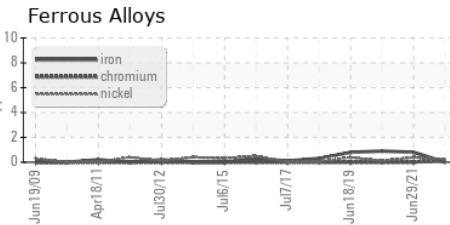
| VISUAL           | method | limit/base | current | history1 | history2 |
|------------------|--------|------------|---------|----------|----------|
| White Metal      | scalar | *Visual    | NONE    | NONE     | NONE     |
| Yellow Metal     | scalar | *Visual    | NONE    | NONE     | NONE     |
| Precipitate      | scalar | *Visual    | NONE    | NONE     | NONE     |
| Silt             | scalar | *Visual    | NONE    | NONE     | NONE     |
| Debris           | scalar | *Visual    | NONE    | NONE     | LIGHT    |
| 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 46 | 48.6    | 48.0     | 48.0     |

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



## GRAPHS



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : RP0033659 **Received** : 21 Nov 2023  
**Lab Number** : 06014564 **Diagnosed** : 24 Nov 2023  
**Unique Number** : 10753708 **Diagnostician** : Don Baldrige  
**Test Package** : IND 2

**SULZER HICKHAM**  
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 LAPORTE, TX  
 US 77571  
 Contact: EVER GARZA  
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 T: (713)567-2807  
 F: (713)567-2846

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)