



# OIL ANALYSIS REPORT

Sample Rating Trend

**NORMAL**



Area  
**PALASYN 45 [38043]**  
 Machine Id  
**SULLIVAN PALATEK 1211160008 - CM SERVICE**  
 Component  
**Compressor**



## 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>UCH05929693</b> | ---      | ---      |
| Sample Date   | Client Info |             | <b>01 Aug 2023</b> | ---      | ---      |
| Machine Age   | hrs         | Client Info | <b>41206</b>       | ---      | ---      |
| Oil Age       | hrs         | Client Info | <b>0</b>           | ---      | ---      |
| Oil Changed   | Client Info |             | <b>N/A</b>         | ---      | ---      |
| Sample Status |             |             | <b>NORMAL</b>      | ---      | ---      |

## WEAR METALS

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

## ADDITIVES

|            | method | limit/base       | current      | history1 | history2 |
|------------|--------|------------------|--------------|----------|----------|
| Boron      | ppm    | ASTM D5185m 0.0  | <b>0</b>     | ---      | ---      |
| Barium     | ppm    | ASTM D5185m 0.0  | <b>4</b>     | ---      | ---      |
| Molybdenum | ppm    | ASTM D5185m 0    | <b>0</b>     | ---      | ---      |
| Manganese  | ppm    | ASTM D5185m 0    | <b>0</b>     | ---      | ---      |
| Magnesium  | ppm    | ASTM D5185m 0.0  | <b>&lt;1</b> | ---      | ---      |
| Calcium    | ppm    | ASTM D5185m 0.0  | <b>0</b>     | ---      | ---      |
| Phosphorus | ppm    | ASTM D5185m 966  | <b>482</b>   | ---      | ---      |
| Zinc       | ppm    | ASTM D5185m 0    | <b>4</b>     | ---      | ---      |
| Sulfur     | ppm    | ASTM D5185m 1309 | <b>188</b>   | ---      | ---      |

## CONTAMINANTS

|           | method | limit/base      | current      | history1 | history2 |
|-----------|--------|-----------------|--------------|----------|----------|
| Silicon   | ppm    | ASTM D5185m >25 | <b>0</b>     | ---      | ---      |
| Sodium    | ppm    | ASTM D5185m     | <b>&lt;1</b> | ---      | ---      |
| Potassium | ppm    | ASTM D5185m >20 | <b>0</b>     | ---      | ---      |

## FLUID DEGRADATION

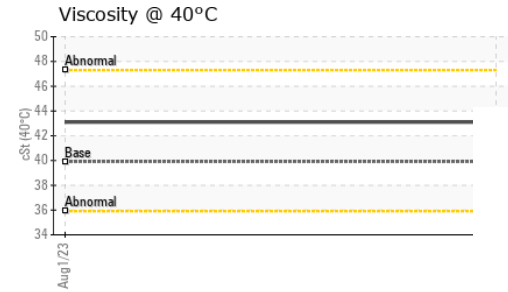
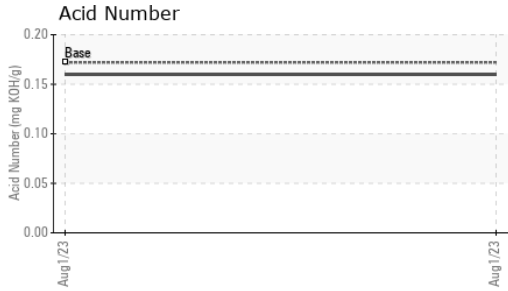
|                  | method   | limit/base       | current     | history1 | history2 |
|------------------|----------|------------------|-------------|----------|----------|
| Acid Number (AN) | mg KOH/g | ASTM D8045 0.172 | <b>0.16</b> | ---      | ---      |

## VISUAL

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



# OIL ANALYSIS REPORT



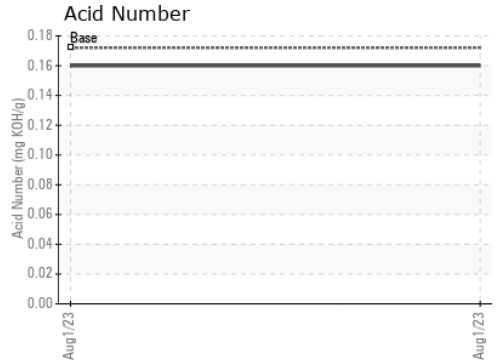
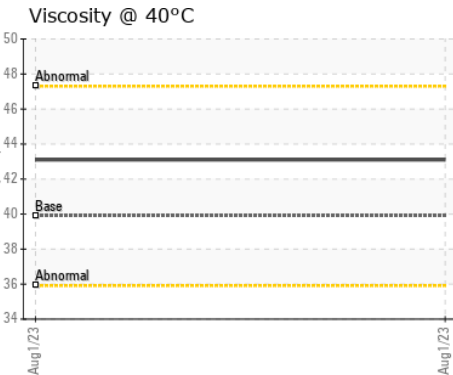
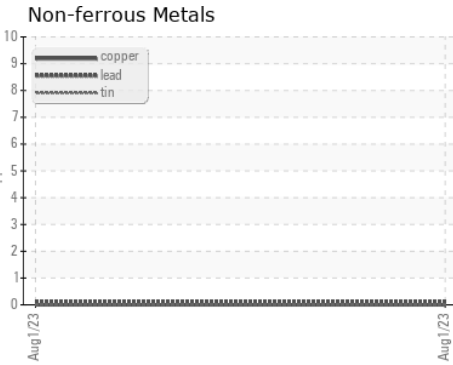
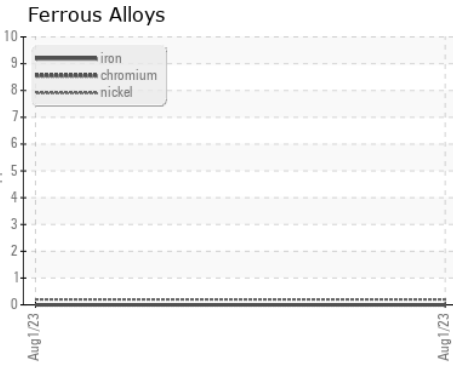
### FLUID PROPERTIES

| method      | limit/base | current        | history1 | history2 |     |
|-------------|------------|----------------|----------|----------|-----|
| Visc @ 40°C | cSt        | ASTM D445 39.9 | 43.1     | ---      | --- |

### 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.** : UCH05929693 **Received** : 21 Aug 2023  
**Lab Number** : 05929693 **Diagnosed** : 23 Aug 2023  
**Unique Number** : 10609640 **Diagnostician** : Don Baldrige  
**Test Package** : IND 2

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 DEER PARK, TX  
 US 77536  
 Contact: AARON RIOS  
 oilsamples@airspecialty.com  
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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)