



# OIL ANALYSIS REPORT

Sample Rating Trend



**NORMAL**



Area

**PALASYN 45 [1455]**

Machine ID

**SULLIVAN PALATEK 22FE003180 - LBC HOUSTON**

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>UCH06208801</b> | ---      | ---      |
| Sample Date   | Client Info |             | <b>12 Jun 2024</b> | ---      | ---      |
| Machine Age   | hrs         | Client Info | <b>7716</b>        | ---      | ---      |
| Oil Age       | hrs         | Client Info | <b>0</b>           | ---      | ---      |
| Oil Changed   | Client Info |             | <b>Not Chngd</b>   | ---      | ---      |
| Sample Status |             |             | <b>NORMAL</b>      | ---      | ---      |

## CONTAMINATION

|       | method    | limit/base | current    | history1 | history2 |
|-------|-----------|------------|------------|----------|----------|
| Water | WC Method | >0.1       | <b>NEG</b> | ---      | ---      |

## WEAR METALS

|          | method | limit/base      | current      | history1 | history2 |
|----------|--------|-----------------|--------------|----------|----------|
| Iron     | ppm    | ASTM D5185m >50 | <b>2</b>     | ---      | ---      |
| Chromium | ppm    | ASTM D5185m >10 | <b>0</b>     | ---      | ---      |
| Nickel   | ppm    | ASTM D5185m     | <b>0</b>     | ---      | ---      |
| Titanium | ppm    | ASTM D5185m     | <b>0</b>     | ---      | ---      |
| Silver   | ppm    | ASTM D5185m     | <b>0</b>     | ---      | ---      |
| Aluminum | ppm    | ASTM D5185m >25 | <b>&lt;1</b> | ---      | ---      |
| Lead     | ppm    | ASTM D5185m >25 | <b>0</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>0</b>   | ---      | ---      |
| Molybdenum | ppm    | ASTM D5185m 0    | <b>0</b>   | ---      | ---      |
| Manganese  | ppm    | ASTM D5185m 0    | <b>0</b>   | ---      | ---      |
| Magnesium  | ppm    | ASTM D5185m 0.0  | <b>0</b>   | ---      | ---      |
| Calcium    | ppm    | ASTM D5185m 0.0  | <b>0</b>   | ---      | ---      |
| Phosphorus | ppm    | ASTM D5185m 966  | <b>409</b> | ---      | ---      |
| Zinc       | ppm    | ASTM D5185m 0    | <b>0</b>   | ---      | ---      |
| Sulfur     | ppm    | ASTM D5185m 1309 | <b>753</b> | ---      | ---      |

## CONTAMINANTS

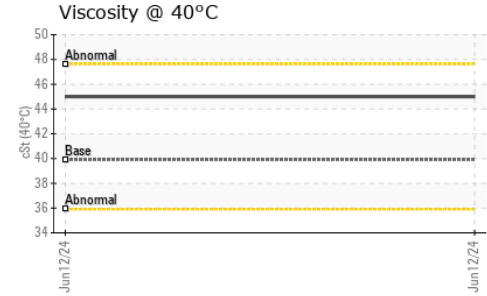
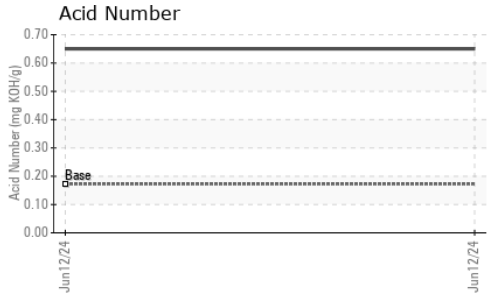
|           | method | limit/base      | current      | history1 | history2 |
|-----------|--------|-----------------|--------------|----------|----------|
| Silicon   | ppm    | ASTM D5185m >25 | <b>&lt;1</b> | ---      | ---      |
| Sodium    | ppm    | ASTM D5185m     | <b>1</b>     | ---      | ---      |
| 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>0.65</b> | ---      | ---      |





# OIL ANALYSIS REPORT



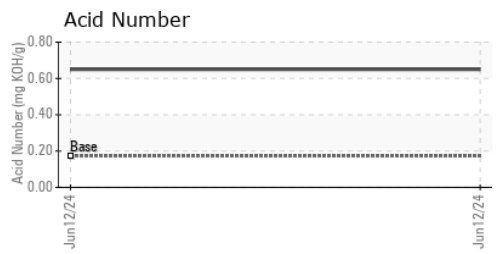
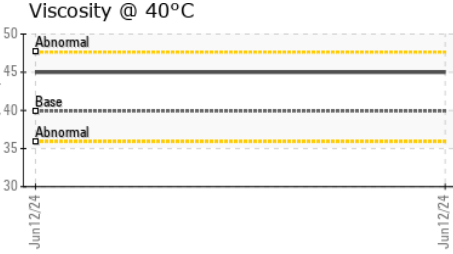
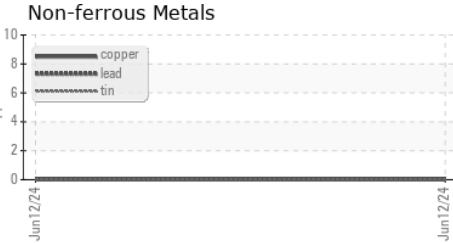
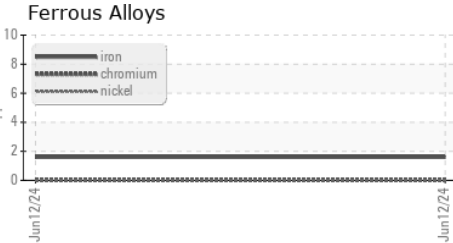
| VISUAL           | method | limit/base | current | history1 | history2 |     |
|------------------|--------|------------|---------|----------|----------|-----|
| White Metal      | scalar | *Visual    | NONE    | NONE     | ---      | --- |
| Yellow Metal     | scalar | *Visual    | NONE    | NONE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

| FLUID PROPERTIES | method | limit/base | current | history1    | history2 |     |
|------------------|--------|------------|---------|-------------|----------|-----|
| Visc @ 40°C      | cSt    | ASTM D445  | 39.9    | <b>45.0</b> | ---      | --- |

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

|        |  |  |   |          |          |
|--------|--|--|---|----------|----------|
| Color  |  |  |  | no image | no image |
| Bottom |  |  |  | no image | no image |

## GRAPHS



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : UCH06208801      **Received** : 13 Jun 2024  
**Lab Number** : **06208801**      **Tested** : 14 Jun 2024  
**Unique Number** : 11076262      **Diagnosed** : 14 Jun 2024 - Wes Davis  
**Test Package** : IND 2

**AIR SPECIALTY & EQUIPMENT COMPANY**  
 2814 EAST P ST  
 DEER PARK, TX  
 US 77536  
 Contact: Brandon Schmill  
 Bschrill@airspecialty.com

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)