

Area

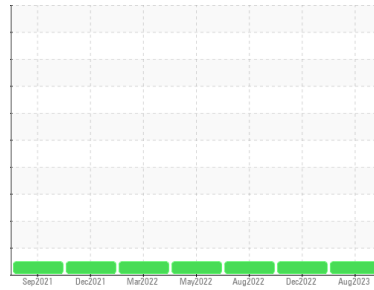
**PALASYN 45**

Machine Id

**SULLIVAN PALATEK 21EE002130 - AMPLIFY ENERGY**

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>UCS06152108</b> | UCS05752233   | UCS05683851 |        |
| Sample Date   | Client Info | <b>02 Aug 2023</b> | 12 Dec 2022   | 16 Aug 2022 |        |
| Machine Age   | hrs         | Client Info        | <b>9697</b>   | 7288        | 5223   |
| Oil Age       | hrs         | Client Info        | <b>3000</b>   | 2500        | 1130   |
| Oil Changed   | Client Info | <b>Changed</b>     | Changed       | Not Changed |        |
| Sample Status |             |                    | <b>NORMAL</b> | NORMAL      | NORMAL |

**CONTAMINATION** method limit/base current history1 history2

|       |           |      |            |     |     |
|-------|-----------|------|------------|-----|-----|
| Water | WC Method | >0.1 | <b>NEG</b> | NEG | NEG |
|-------|-----------|------|------------|-----|-----|

**WEAR METALS** method limit/base current history1 history2

|          |     |             |     |              |    |    |
|----------|-----|-------------|-----|--------------|----|----|
| Iron     | ppm | ASTM D5185m | >50 | <b>1</b>     | <1 | <1 |
| 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>     | 0  | 0  |
| Lead     | ppm | ASTM D5185m | >25 | <b>0</b>     | 0  | 0  |
| Copper   | ppm | ASTM D5185m | >50 | <b>&lt;1</b> | <1 | <1 |
| Tin      | ppm | ASTM D5185m | >15 | <b>&lt;1</b> | <1 | <1 |
| 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 | 0.0  | <b>0</b>     | 0   | 0    |
| Barium     | ppm | ASTM D5185m | 0.0  | <b>0</b>     | 0   | 0    |
| Molybdenum | ppm | ASTM D5185m | 0    | <b>0</b>     | 0   | 0    |
| Manganese  | ppm | ASTM D5185m | 0    | <b>&lt;1</b> | 0   | 0    |
| Magnesium  | ppm | ASTM D5185m | 0.0  | <b>0</b>     | 0   | 0    |
| Calcium    | ppm | ASTM D5185m | 0.0  | <b>&lt;1</b> | 0   | 0    |
| Phosphorus | ppm | ASTM D5185m | 966  | <b>346</b>   | 289 | 456  |
| Zinc       | ppm | ASTM D5185m | 0    | <b>0</b>     | 0   | 0    |
| Sulfur     | ppm | ASTM D5185m | 1309 | <b>354</b>   | 184 | 1029 |

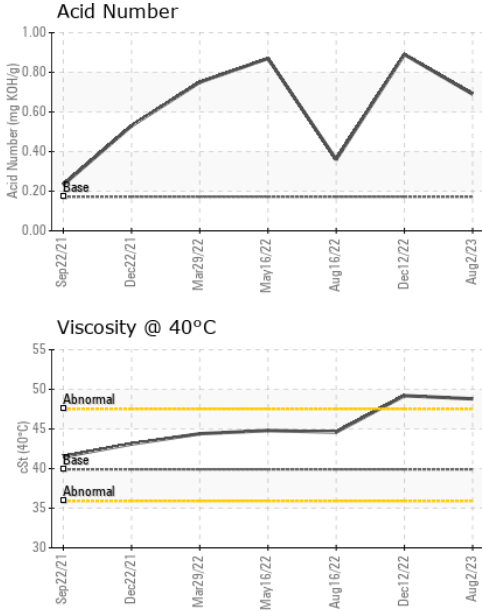
**CONTAMINANTS** method limit/base current history1 history2

|           |     |             |     |          |    |    |
|-----------|-----|-------------|-----|----------|----|----|
| Silicon   | ppm | ASTM D5185m | >25 | <b>1</b> | <1 | <1 |
| Sodium    | ppm | ASTM D5185m |     | <b>1</b> | 0  | 0  |
| Potassium | ppm | ASTM D5185m | >20 | <b>2</b> | 0  | <1 |

**FLUID DEGRADATION** method limit/base current history1 history2

|                  |          |            |       |             |      |      |
|------------------|----------|------------|-------|-------------|------|------|
| Acid Number (AN) | mg KOH/g | ASTM D8045 | 0.172 | <b>0.69</b> | 0.89 | 0.36 |
|------------------|----------|------------|-------|-------------|------|------|

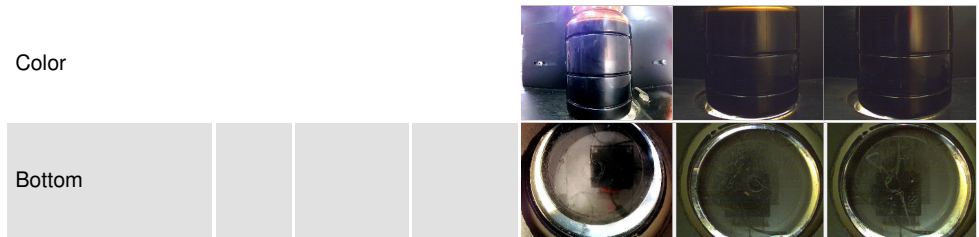
# OIL ANALYSIS REPORT



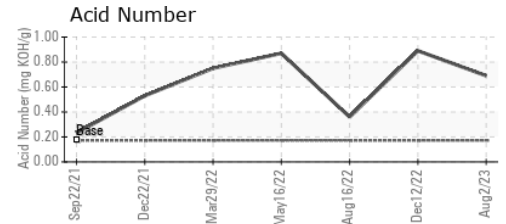
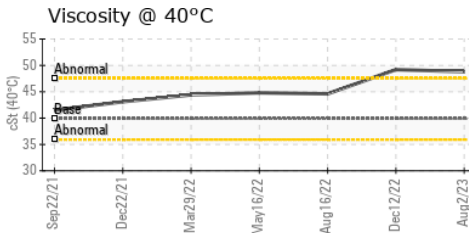
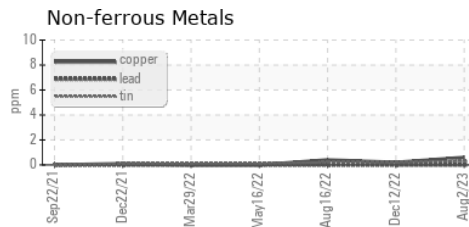
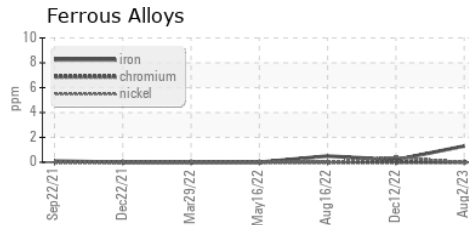
| PARAMETER        | method | limit/base | current | history1 | history2 |
|------------------|--------|------------|---------|----------|----------|
| White Metal      | scalar | *Visual    | NONE    | MODER    | NONE     |
| Yellow Metal     | scalar | *Visual    | NONE    | NONE     | NONE     |
| Precipitate      | scalar | *Visual    | NONE    | NONE     | NONE     |
| Silt             | scalar | *Visual    | NONE    | NONE     | NONE     |
| Debris           | scalar | *Visual    | NONE    | LIGHT    | 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  | 39.9    | <b>48.8</b> | 49.2     | 44.6 |

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



## GRAPHS



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : UCS06152108  
**Lab Number** : **06152108**  
**Unique Number** : 10982186  
**Test Package** : IND 2

**Received** : 17 Apr 2024  
**Tested** : 18 Apr 2024  
**Diagnosed** : 19 Apr 2024 - Sean Felton

**COMPRESSION LEASING SERVICES, INC**  
 1935 N LOOP AVENUE & 1925 N LOOP AV  
 CASPER, WY  
 US 82601

Contact: ANGIE MANZANAREZ  
 amanz@cls-inc.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)

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