

# OIL ANALYSIS REPORT

Sample Rating Trend

**NORMAL**



Area

**PALASYN 45**

Machine Id

**PALATEK 23CE003809 - INDOOR INSTALLATION/GREEN RIDGE METALS**

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>UCS06184453</b> | ---      | ---      |
| Sample Date        | Client Info |             |            | <b>15 May 2024</b> | ---      | ---      |
| Machine Age        | hrs         | Client Info |            | <b>975</b>         | ---      | ---      |
| Oil Age            | hrs         | Client Info |            | <b>975</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> | ---      | ---      |

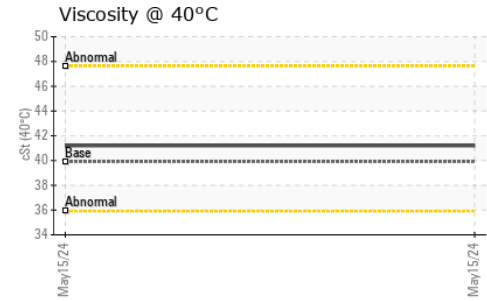
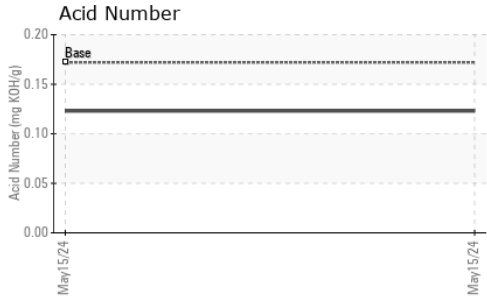
| WEAR METALS |     | method      | limit/base | current      | history1 | history2 |
|-------------|-----|-------------|------------|--------------|----------|----------|
| Iron        | ppm | ASTM D5185m | >50        | <b>&lt;1</b> | ---      | ---      |
| Chromium    | ppm | ASTM D5185m | >10        | <b>&lt;1</b> | ---      | ---      |
| Nickel      | ppm | ASTM D5185m |            | <b>&lt;1</b> | ---      | ---      |
| Titanium    | ppm | ASTM D5185m |            | <b>&lt;1</b> | ---      | ---      |
| Silver      | ppm | ASTM D5185m |            | <b>&lt;1</b> | ---      | ---      |
| Aluminum    | ppm | ASTM D5185m | >25        | <b>2</b>     | ---      | ---      |
| Lead        | ppm | ASTM D5185m | >25        | <b>&lt;1</b> | ---      | ---      |
| Copper      | ppm | ASTM D5185m | >50        | <b>&lt;1</b> | ---      | ---      |
| Tin         | ppm | ASTM D5185m | >15        | <b>&lt;1</b> | ---      | ---      |
| Vanadium    | ppm | ASTM D5185m |            | <b>&lt;1</b> | ---      | ---      |
| Cadmium     | ppm | ASTM D5185m |            | <b>&lt;1</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>&lt;1</b> | ---      | ---      |
| Manganese  | ppm | ASTM D5185m | 0          | <b>&lt;1</b> | ---      | ---      |
| Magnesium  | ppm | ASTM D5185m | 0.0        | <b>&lt;1</b> | ---      | ---      |
| Calcium    | ppm | ASTM D5185m | 0.0        | <b>3</b>     | ---      | ---      |
| Phosphorus | ppm | ASTM D5185m | 966        | <b>637</b>   | ---      | ---      |
| Zinc       | ppm | ASTM D5185m | 0          | <b>0</b>     | ---      | ---      |
| Sulfur     | ppm | ASTM D5185m | 1309       | <b>1496</b>  | ---      | ---      |

| CONTAMINANTS |     | method      | limit/base | current  | history1 | history2 |
|--------------|-----|-------------|------------|----------|----------|----------|
| Silicon      | ppm | ASTM D5185m | >25        | <b>2</b> | ---      | ---      |
| Sodium       | ppm | ASTM D5185m |            | <b>0</b> | ---      | ---      |
| Potassium    | ppm | ASTM D5185m | >20        | <b>2</b> | ---      | ---      |

| FLUID DEGRADATION |          | method     | limit/base | current      | history1 | history2 |
|-------------------|----------|------------|------------|--------------|----------|----------|
| Acid Number (AN)  | mg KOH/g | ASTM D8045 | 0.172      | <b>0.123</b> | ---      | ---      |

# OIL ANALYSIS REPORT



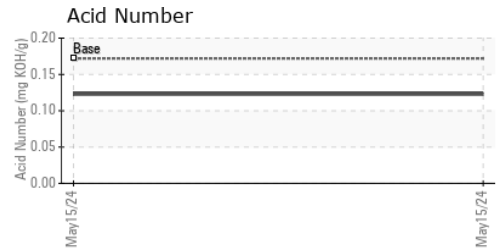
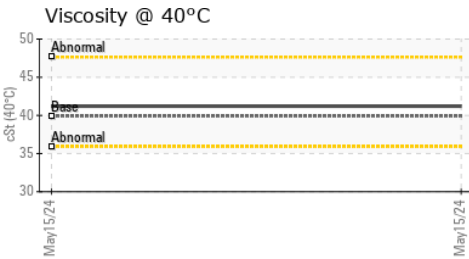
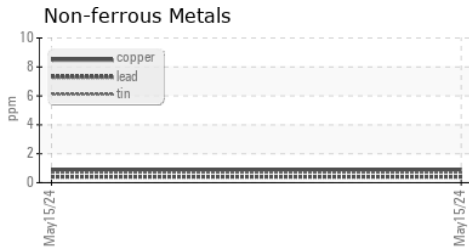
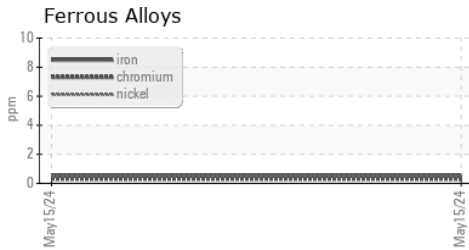
| VISUAL           | method | limit/base | current | history1 | history2 |     |
|------------------|--------|------------|---------|----------|----------|-----|
| White Metal      | scalar | *Visual    | NONE    | NONE     | ---      | --- |
| Yellow Metal     | scalar | *Visual    | NONE    | NONE     | ---      | --- |
| 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>41.2</b> | ---      | --- |

| 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.** : UCS06184453      **Received** : 20 May 2024  
**Lab Number** : **06184453**      **Tested** : 21 May 2024  
**Unique Number** : 11035779      **Diagnosed** : 21 May 2024 - Wes Davis  
**Test Package** : IND 2

**TRI-STATE AIR COMPRESSOR**  
 10635 RAPP RD  
 MIDDLETOWN, OH  
 US 44442  
 Contact:  
 tristateaircompressor@gmail.com  
 T: (330)717-6507  
 F:

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)