

Area

**PO 4010**

Machine Id

**CHAMPION S263260 - SC TOOL AND DIE**

Component

**Compressor**

**DIAGNOSIS**

**Recommendation**

Oil and filter change at the time of sampling has been noted. 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 oil viscosity is higher than normal. The AN level is acceptable for this fluid.

| SAMPLE INFORMATION |             | method      | limit/base | current            | history1 | history2 |
|--------------------|-------------|-------------|------------|--------------------|----------|----------|
| Sample Number      | Client Info |             |            | <b>UCP06161610</b> | ---      | ---      |
| Sample Date        | Client Info |             |            | <b>26 Mar 2024</b> | ---      | ---      |
| Machine Age        | hrs         | Client Info |            | <b>5000</b>        | ---      | ---      |
| Oil Age            | hrs         | Client Info |            | <b>5000</b>        | ---      | ---      |
| Oil Changed        | Client Info |             |            | <b>Changed</b>     | ---      | ---      |
| Sample Status      |             |             |            | <b>ATTENTION</b>   | ---      | ---      |

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

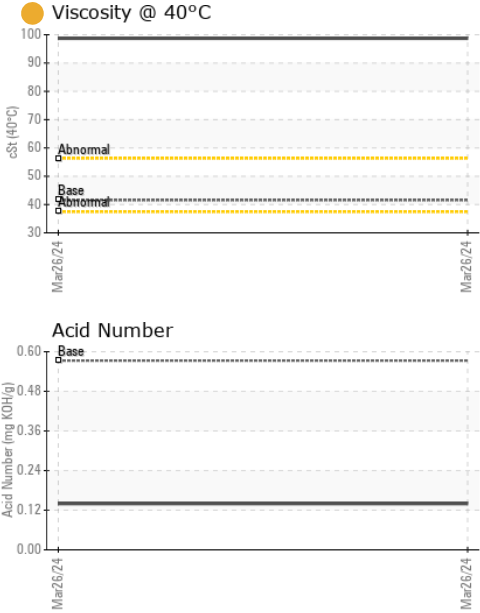
| WEAR METALS |     | method      | limit/base | current      | history1 | history2 |
|-------------|-----|-------------|------------|--------------|----------|----------|
| Iron        | ppm | ASTM D5185m | >50        | <b>10</b>    | ---      | ---      |
| Chromium    | ppm | ASTM D5185m | >10        | <b>0</b>     | ---      | ---      |
| Nickel      | ppm | ASTM D5185m |            | <b>0</b>     | ---      | ---      |
| Titanium    | ppm | ASTM D5185m |            | <b>&lt;1</b> | ---      | ---      |
| Silver      | ppm | ASTM D5185m |            | <b>0</b>     | ---      | ---      |
| Aluminum    | ppm | ASTM D5185m | >25        | <b>0</b>     | ---      | ---      |
| Lead        | ppm | ASTM D5185m | >25        | <b>0</b>     | ---      | ---      |
| Copper      | ppm | ASTM D5185m | >50        | <b>&lt;1</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          | <b>0</b>     | ---      | ---      |
| Barium     | ppm | ASTM D5185m | 0.4        | <b>0</b>     | ---      | ---      |
| Molybdenum | ppm | ASTM D5185m | 0.5        | <b>0</b>     | ---      | ---      |
| Manganese  | ppm | ASTM D5185m | 0.4        | <b>&lt;1</b> | ---      | ---      |
| Magnesium  | ppm | ASTM D5185m | 0          | <b>0</b>     | ---      | ---      |
| Calcium    | ppm | ASTM D5185m | 0.3        | <b>0</b>     | ---      | ---      |
| Phosphorus | ppm | ASTM D5185m | 1376       | <b>278</b>   | ---      | ---      |
| Zinc       | ppm | ASTM D5185m | 0          | <b>0</b>     | ---      | ---      |
| Sulfur     | ppm | ASTM D5185m | 320        | <b>703</b>   | ---      | ---      |

| CONTAMINANTS |     | method      | limit/base | current  | history1 | history2 |
|--------------|-----|-------------|------------|----------|----------|----------|
| Silicon      | ppm | ASTM D5185m | >25        | <b>0</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 | 0.573      | <b>0.14</b> | ---      | ---      |

# OIL ANALYSIS REPORT



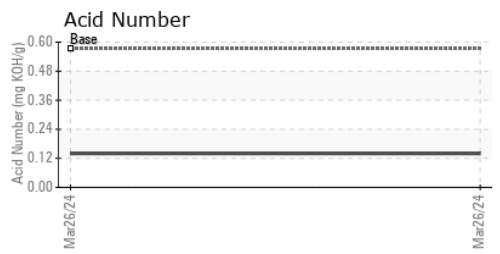
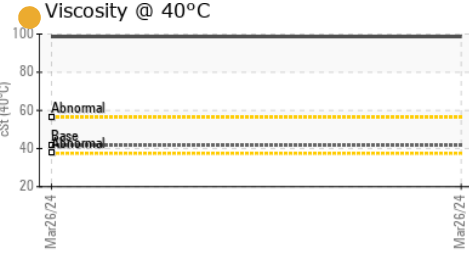
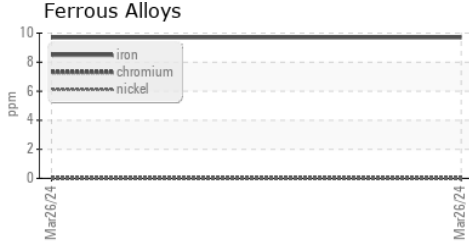
| VISUAL           | method | limit/base | current | history1 | history2 |     |
|------------------|--------|------------|---------|----------|----------|-----|
| White Metal      | scalar | *Visual    | NONE    | NONE     | ---      | --- |
| Yellow Metal     | scalar | *Visual    | NONE    | NONE     | ---      | --- |
| 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  | 41.57   | ● 98.72  | ---      | --- |

| 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.** : UCP06161610      **Received** : 26 Apr 2024  
**Lab Number** : 06161610      **Tested** : 02 May 2024  
**Unique Number** : 10997033      **Diagnosed** : 02 May 2024 - Jonathan Hester  
**Test Package** : IND 2

**PATTONS INC - RALEIGH**  
 2616 DISCOVERY DRIVE  
 RALEIGH, NC  
 US 27616  
 Contact: AARON MCCOY  
 aaron.mccoy@pattonsincc.com  
 T: (919)872-6411  
 F: (919)876-1961

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)