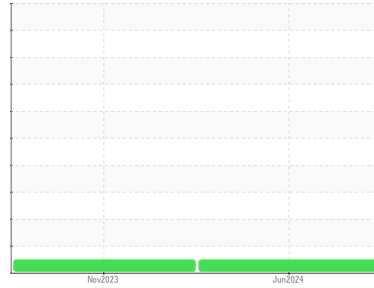




# OIL ANALYSIS REPORT

Sample Rating Trend



**NORMAL**



Area

**ASL-46 [1868]**

Machine Id

**ATLAS COPCO AIF067850 - CALPINE**

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>UCH06208793</b> | UCH06046291 | ---      |
| Sample Date        | Client Info |             |            | <b>12 Jun 2024</b> | 14 Nov 2023 | ---      |
| Machine Age        | hrs         | Client Info |            | <b>100668</b>      | 98430       | ---      |
| Oil Age            | hrs         | Client Info |            | <b>0</b>           | 0           | ---      |
| Oil Changed        | Client Info |             |            | <b>Not Changed</b> | Not Changed | ---      |
| Sample Status      |             |             |            | <b>NORMAL</b>      | NORMAL      | ---      |

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

| WEAR METALS |     | method      | limit/base | current      | history1 | history2 |
|-------------|-----|-------------|------------|--------------|----------|----------|
| Iron        | ppm | ASTM D5185m | >50        | <b>2</b>     | 0        | ---      |
| Chromium    | ppm | ASTM D5185m | >5         | <b>0</b>     | 0        | ---      |
| Nickel      | ppm | ASTM D5185m |            | <b>0</b>     | 0        | ---      |
| Titanium    | ppm | ASTM D5185m |            | <b>0</b>     | 0        | ---      |
| Silver      | ppm | ASTM D5185m |            | <b>0</b>     | 0        | ---      |
| Aluminum    | ppm | ASTM D5185m | >15        | <b>&lt;1</b> | <1       | ---      |
| Lead        | ppm | ASTM D5185m | >65        | <b>0</b>     | 0        | ---      |
| Copper      | ppm | ASTM D5185m | >65        | <b>0</b>     | 0        | ---      |
| Tin         | ppm | ASTM D5185m | >10        | <b>0</b>     | 0        | ---      |
| Vanadium    | ppm | ASTM D5185m |            | <b>0</b>     | 0        | ---      |
| Cadmium     | ppm | ASTM D5185m |            | <b>0</b>     | 0        | ---      |

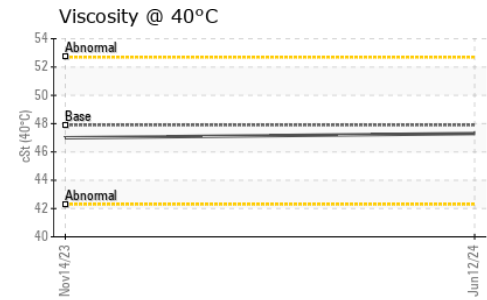
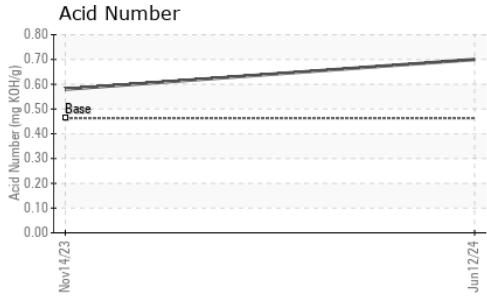
| ADDITIVES  |     | method      | limit/base | current    | history1 | history2 |
|------------|-----|-------------|------------|------------|----------|----------|
| Boron      | ppm | ASTM D5185m | 1.5        | <b>0</b>   | 0        | ---      |
| Barium     | ppm | ASTM D5185m | 0          | <b>0</b>   | 4        | ---      |
| Molybdenum | ppm | ASTM D5185m | 0          | <b>0</b>   | 0        | ---      |
| Manganese  | ppm | ASTM D5185m | 0.3        | <b>0</b>   | 0        | ---      |
| Magnesium  | ppm | ASTM D5185m | 0          | <b>0</b>   | 0        | ---      |
| Calcium    | ppm | ASTM D5185m | 0          | <b>0</b>   | <1       | ---      |
| Phosphorus | ppm | ASTM D5185m | 406        | <b>112</b> | 93       | ---      |
| Zinc       | ppm | ASTM D5185m | 0          | <b>158</b> | 124      | ---      |
| Sulfur     | ppm | ASTM D5185m | 1283       | <b>244</b> | 256      | ---      |

| CONTAMINANTS |     | method      | limit/base | current      | history1 | history2 |
|--------------|-----|-------------|------------|--------------|----------|----------|
| Silicon      | ppm | ASTM D5185m | >35        | <b>&lt;1</b> | <1       | ---      |
| Sodium       | ppm | ASTM D5185m |            | <b>4</b>     | 3        | ---      |
| Potassium    | ppm | ASTM D5185m | >20        | <b>0</b>     | 1        | ---      |

| FLUID DEGRADATION |          | method     | limit/base | current     | history1 | history2 |
|-------------------|----------|------------|------------|-------------|----------|----------|
| Acid Number (AN)  | mg KOH/g | ASTM D8045 | 0.463      | <b>0.70</b> | 0.58     | ---      |



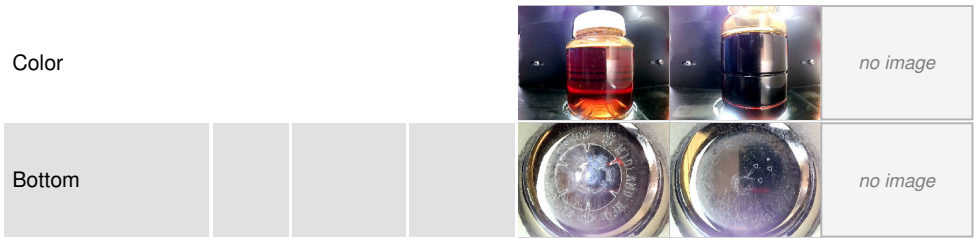
# OIL ANALYSIS REPORT



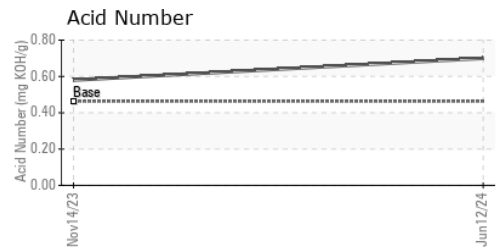
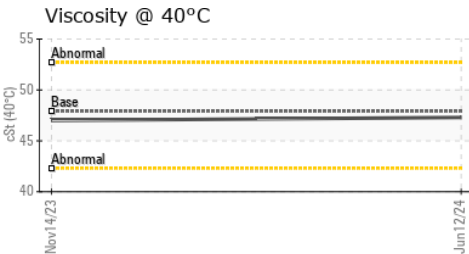
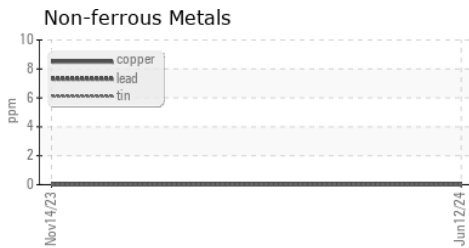
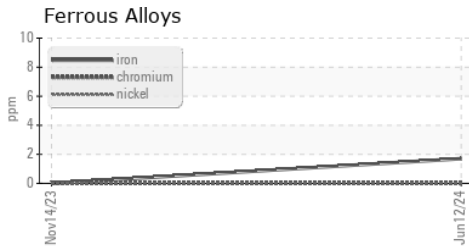
| VISUAL           | method | limit/base | current | history1 | history2 |
|------------------|--------|------------|---------|----------|----------|
| White Metal      | scalar | *Visual    | NONE    | NONE     | ---      |
| Yellow Metal     | scalar | *Visual    | NONE    | NONE     | ---      |
| 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  | 47.9    | <b>47.3</b> | 47.0     |

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



## GRAPHS



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : UCH06208793      **Received** : 13 Jun 2024  
**Lab Number** : **06208793**      **Tested** : 14 Jun 2024  
**Unique Number** : 11076254      **Diagnosed** : 14 Jun 2024 - Angela Borella  
**Test Package** : IND 2

**AIR SPECIALTY & EQUIPMENT COMPANY**  
 2814 EAST P ST  
 DEER PARK, TX  
 US 77536  
 Contact: Brandon Schmill  
 Bschmill@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)