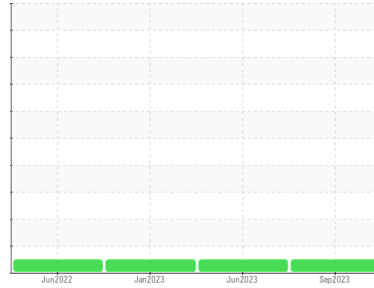




# OIL ANALYSIS REPORT

Sample Rating Trend

**NORMAL**



Area  
**HC-SYN-5**  
 Machine Id  
**ATLAS COPCO CAI959982**  
 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>UCH05995770</b> | UCH05975874 | UHC0000597  |
| Sample Date        | Client Info |             |            | <b>07 Sep 2023</b> | 16 Jun 2023 | 03 Jan 2023 |
| Machine Age        | hrs         | Client Info |            | <b>7636</b>        | 7603        | 7347        |
| Oil Age            | hrs         | Client Info |            | <b>289</b>         | 256         | 0           |
| Oil Changed        | Client Info |             |            | <b>Not Changed</b> | Not Changd  | Changed     |
| Sample Status      |             |             |            | <b>NORMAL</b>      | NORMAL      | NORMAL      |

| WEAR METALS |     | method      | limit/base | current      | history1 | history2 |
|-------------|-----|-------------|------------|--------------|----------|----------|
| Iron        | ppm | ASTM D5185m | >50        | <b>0</b>     | 0        | <1       |
| Chromium    | ppm | ASTM D5185m | >5         | <b>0</b>     | 0        | 0        |
| Nickel      | ppm | ASTM D5185m |            | <b>0</b>     | 0        | 0        |
| Titanium    | ppm | ASTM D5185m |            | <b>0</b>     | 0        | 0        |
| Silver      | ppm | ASTM D5185m |            | <b>0</b>     | 0        | 0        |
| Aluminum    | ppm | ASTM D5185m | >15        | <b>0</b>     | 0        | <1       |
| Lead        | ppm | ASTM D5185m | >65        | <b>0</b>     | 0        | <1       |
| Copper      | ppm | ASTM D5185m | >65        | <b>&lt;1</b> | <1       | <1       |
| Tin         | ppm | ASTM D5185m | >10        | <b>0</b>     | 0        | <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 |            | <b>0</b>   | 0        | 0        |
| Barium     | ppm | ASTM D5185m |            | <b>0</b>   | 0        | 2        |
| Molybdenum | ppm | ASTM D5185m |            | <b>0</b>   | 0        | 0        |
| Manganese  | ppm | ASTM D5185m |            | <b>0</b>   | 0        | 0        |
| Magnesium  | ppm | ASTM D5185m |            | <b>0</b>   | 0        | 0        |
| Calcium    | ppm | ASTM D5185m |            | <b>0</b>   | 0        | <1       |
| Phosphorus | ppm | ASTM D5185m |            | <b>362</b> | 393      | 313      |
| Zinc       | ppm | ASTM D5185m |            | <b>0</b>   | 0        | 9        |
| Sulfur     | ppm | ASTM D5185m |            | <b>275</b> | 352      | 270      |

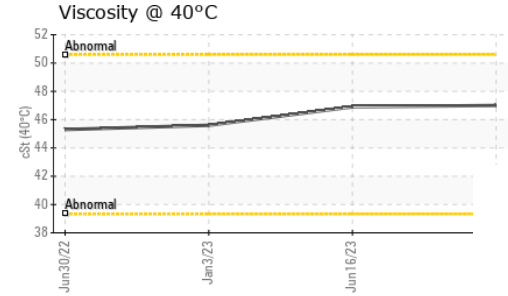
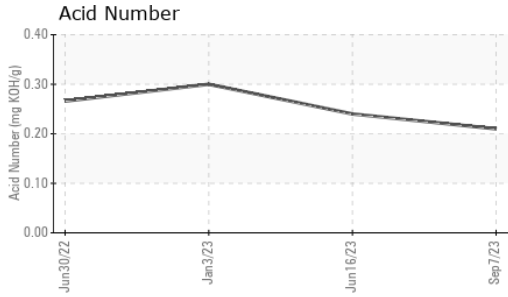
| CONTAMINANTS |     | method      | limit/base | current      | history1 | history2 |
|--------------|-----|-------------|------------|--------------|----------|----------|
| Silicon      | ppm | ASTM D5185m | >35        | <b>6</b>     | 2        | 8        |
| Sodium       | ppm | ASTM D5185m |            | <b>0</b>     | 0        | <1       |
| Potassium    | ppm | ASTM D5185m | >20        | <b>&lt;1</b> | 0        | 0        |

| FLUID DEGRADATION |          | method     | limit/base | current     | history1 | history2 |
|-------------------|----------|------------|------------|-------------|----------|----------|
| Acid Number (AN)  | mg KOH/g | ASTM D8045 |            | <b>0.21</b> | 0.24     | 0.30     |

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

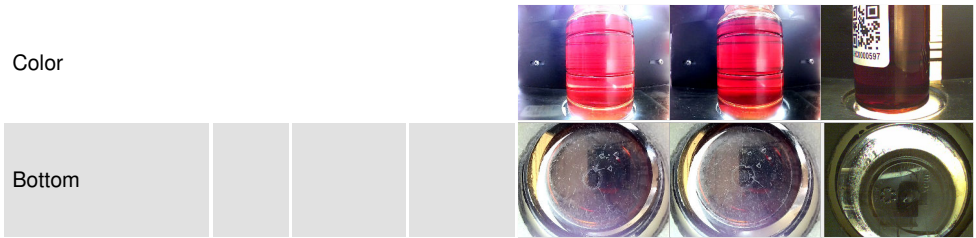


# OIL ANALYSIS REPORT

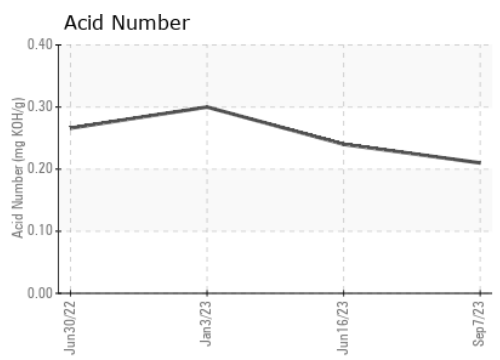
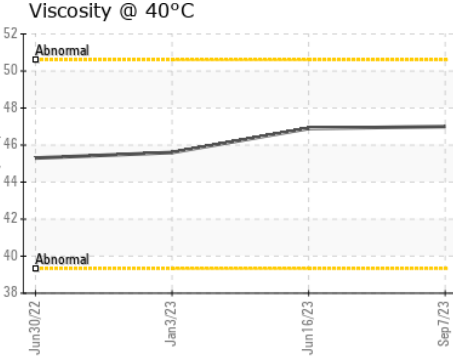
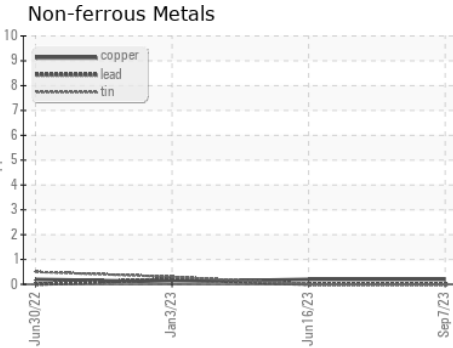
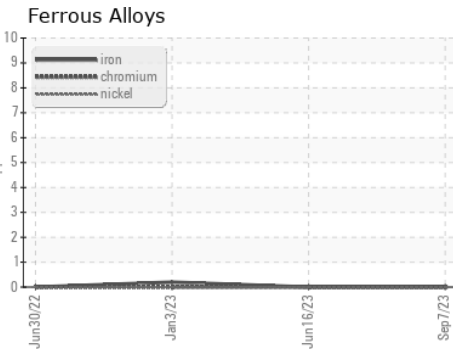


| FLUID PROPERTIES | method | limit/base | current | history1 | history2 |
|------------------|--------|------------|---------|----------|----------|
| Visc @ 40°C      | cSt    | ASTM D445  | 47.0    | 46.9     | 45.6     |

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



## GRAPHS



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : UCH05995770 **Received** : 01 Nov 2023  
**Lab Number** : 05995770 **Diagnosed** : 02 Nov 2023  
**Unique Number** : 10724130 **Diagnostician** : Don Baldrige  
**Test Package** : IND 2

**ATLANTA AIR COMPRESSOR**  
 123 MERCHANTS PARK DR  
 HOSCHTON, GA  
 US 30548  
 Contact: Derik Bray  
 Derik@atlantaaircompressor.com  
 T: (470)252-9952  
 F: x:

Certificate L2367  
 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)