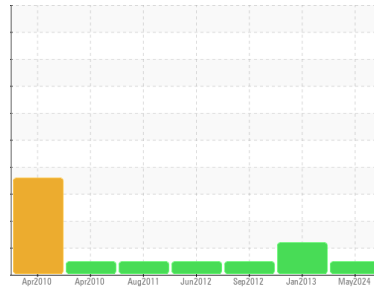




# OIL ANALYSIS REPORT

Sample Rating Trend



**NORMAL**



Area

**ACS-FG-4600-32**

Machine Id

**ATLAS COPCO AII342676 - AQUAMAR**

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>UCH06183379</b> | UCH03214089 | UCH03144636 |
| Sample Date   | Client Info |             | <b>16 May 2024</b> | 17 Jan 2013 | 13 Sep 2012 |
| Machine Age   | hrs         | Client Info | <b>80598</b>       | 68204       | 65501       |
| Oil Age       | hrs         | Client Info | <b>0</b>           | 5194        | 7122        |
| Oil Changed   | Client Info |             | <b>N/A</b>         | Changed     | Not Chngd   |
| Sample Status |             |             | <b>NORMAL</b>      | ATTENTION   | 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>2</b>     | 3        | 1  |
| Chromium | ppm    | ASTM D5185m | >5      | <b>&lt;1</b> | 0        | 0  |
| Nickel   | ppm    | ASTM D5185m |         | <b>&lt;1</b> | <1       | <1 |
| Titanium | ppm    | ASTM D5185m |         | <b>&lt;1</b> | 0        | 0  |
| Silver   | ppm    | ASTM D5185m |         | <b>&lt;1</b> | 0        | 0  |
| Aluminum | ppm    | ASTM D5185m | >15     | <b>2</b>     | <1       | <1 |
| Lead     | ppm    | ASTM D5185m | >65     | <b>&lt;1</b> | 2        | <1 |
| Copper   | ppm    | ASTM D5185m | >65     | <b>1</b>     | <1       | 1  |
| Tin      | ppm    | ASTM D5185m | >10     | <b>&lt;1</b> | 0        | 1  |
| Antimony | ppm    | ASTM D5185m |         | <b>---</b>   | 0        | 0  |
| Vanadium | ppm    | ASTM D5185m |         | <b>&lt;1</b> | 1        | <1 |
| Cadmium  | ppm    | ASTM D5185m |         | <b>&lt;1</b> | 0        | 0  |

## ADDITIVES

|            | method | limit/base  | current | history1     | history2 |     |
|------------|--------|-------------|---------|--------------|----------|-----|
| Boron      | ppm    | ASTM D5185m | 1       | <b>0</b>     | <1       | <1  |
| Barium     | ppm    | ASTM D5185m | 0.3     | <b>0</b>     | 1        | 0   |
| Molybdenum | ppm    | ASTM D5185m | 0       | <b>&lt;1</b> | <1       | 0   |
| Manganese  | ppm    | ASTM D5185m | 0       | <b>&lt;1</b> | 0        | 0   |
| Magnesium  | ppm    | ASTM D5185m | 0       | <b>&lt;1</b> | <1       | 0   |
| Calcium    | ppm    | ASTM D5185m | 0.5     | <b>4</b>     | 0        | 0   |
| Phosphorus | ppm    | ASTM D5185m | 536     | <b>326</b>   | 228      | 344 |
| Zinc       | ppm    | ASTM D5185m | 0.2     | <b>17</b>    | 56       | 97  |
| Sulfur     | ppm    | ASTM D5185m | 649     | <b>470</b>   | 260      | 346 |

## CONTAMINANTS

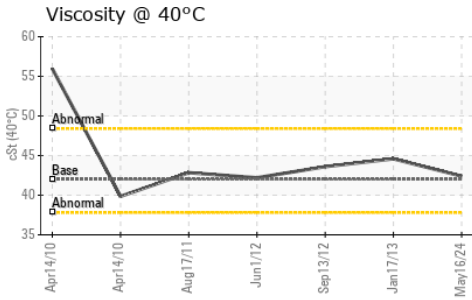
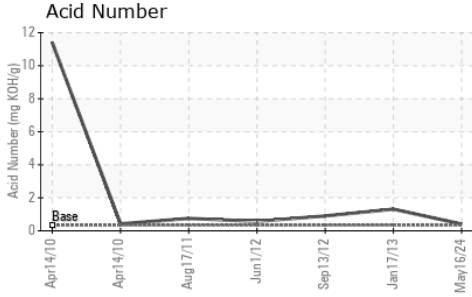
|           | method | limit/base  | current | history1 | history2 |    |
|-----------|--------|-------------|---------|----------|----------|----|
| Silicon   | ppm    | ASTM D5185m | >35     | <b>2</b> | <1       | <1 |
| Sodium    | ppm    | ASTM D5185m |         | <b>0</b> | 2        | 2  |
| Potassium | ppm    | ASTM D5185m | >20     | <b>1</b> | 28       | 0  |

## FLUID DEGRADATION

|                  | method   | limit/base | current | history1    | history2 |       |
|------------------|----------|------------|---------|-------------|----------|-------|
| Acid Number (AN) | mg KOH/g | ASTM D8045 | 0.337   | <b>0.41</b> | 1.31     | 0.899 |



# OIL ANALYSIS REPORT



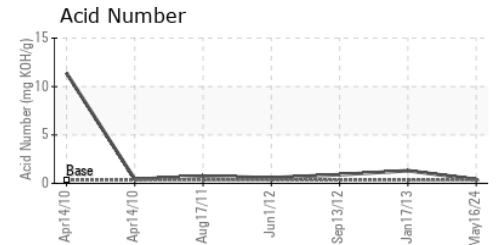
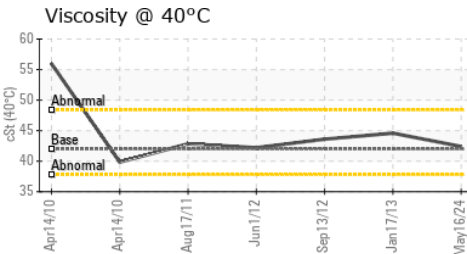
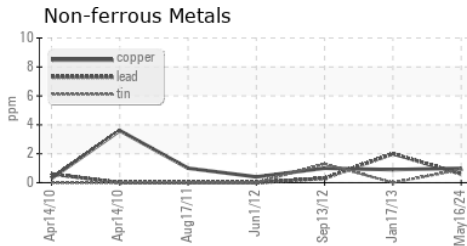
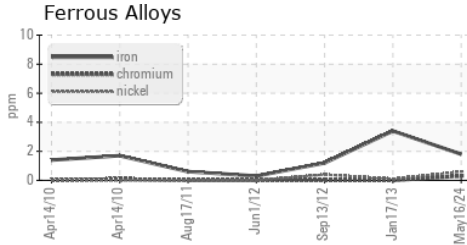
| VISUAL           | method | limit/base | current | history1 | history2 |
|------------------|--------|------------|---------|----------|----------|
| White Metal      | scalar | *Visual    | NONE    | NONE     | NONE     |
| Yellow Metal     | scalar | *Visual    | NONE    | NONE     | NONE     |
| Precipitate      | scalar | *Visual    | NONE    | NONE     | NONE     |
| Silt             | scalar | *Visual    | NONE    | NONE     | NONE     |
| Debris           | scalar | *Visual    | NONE    | NONE     | 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  | 42.0    | <b>42.4</b> | 44.59    | 43.6 |

| 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.** : UCH06183379      **Received** : 17 May 2024  
**Lab Number** : **06183379**      **Tested** : 20 May 2024  
**Unique Number** : 11034705      **Diagnosed** : 20 May 2024 - Wes Davis  
**Test Package** : IND 2

**AIRMATIC COMPRESSOR SYSTEMS**  
 700 WASHINGTON AVE  
 CARLSTADT, NJ  
 US 07072  
 Contact: ELVIN DIAZ  
 ediaz@airmaticcompressor.com; canastasio@wearcheckusa.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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