

# OIL ANALYSIS REPORT

Sample Rating Trend

**NORMAL**



Area  
**ROTO XTEND [417487]**  
 Machine Id  
**ATLAS COPCO ITJ611109 - STEPHAN**  
 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>UCH06125775</b> | ---      | ---      |
| Sample Date   | Client Info |             | <b>29 Feb 2024</b> | ---      | ---      |
| Machine Age   | hrs         | Client Info | <b>823</b>         | ---      | ---      |
| Oil Age       | hrs         | Client Info | <b>823</b>         | ---      | ---      |
| Oil Changed   | Client Info |             | <b>Not Chngd</b>   | ---      | ---      |
| Sample Status |             |             | <b>NORMAL</b>      | ---      | ---      |

## WEAR METALS

|          | method | limit/base      | current      | history1 | history2 |
|----------|--------|-----------------|--------------|----------|----------|
| Iron     | ppm    | ASTM D5185m >50 | <b>&lt;1</b> | ---      | ---      |
| Chromium | ppm    | ASTM D5185m >5  | <b>0</b>     | ---      | ---      |
| Nickel   | ppm    | ASTM D5185m     | <b>6</b>     | ---      | ---      |
| Titanium | ppm    | ASTM D5185m     | <b>0</b>     | ---      | ---      |
| Silver   | ppm    | ASTM D5185m     | <b>0</b>     | ---      | ---      |
| Aluminum | ppm    | ASTM D5185m >15 | <b>0</b>     | ---      | ---      |
| Lead     | ppm    | ASTM D5185m >65 | <b>0</b>     | ---      | ---      |
| Copper   | ppm    | ASTM D5185m >65 | <b>4</b>     | ---      | ---      |
| Tin      | ppm    | ASTM D5185m >10 | <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 | <b>0</b>   | ---      | ---      |
| Barium     | ppm    | ASTM D5185m | <b>4</b>   | ---      | ---      |
| Molybdenum | ppm    | ASTM D5185m | <b>0</b>   | ---      | ---      |
| Manganese  | ppm    | ASTM D5185m | <b>0</b>   | ---      | ---      |
| Magnesium  | ppm    | ASTM D5185m | <b>3</b>   | ---      | ---      |
| Calcium    | ppm    | ASTM D5185m | <b>3</b>   | ---      | ---      |
| Phosphorus | ppm    | ASTM D5185m | <b>47</b>  | ---      | ---      |
| Zinc       | ppm    | ASTM D5185m | <b>41</b>  | ---      | ---      |
| Sulfur     | ppm    | ASTM D5185m | <b>208</b> | ---      | ---      |

## CONTAMINANTS

|           | method | limit/base      | current    | history1 | history2 |
|-----------|--------|-----------------|------------|----------|----------|
| Silicon   | ppm    | ASTM D5185m >35 | <b>3</b>   | ---      | ---      |
| Sodium    | ppm    | ASTM D5185m     | <b>6</b>   | ---      | ---      |
| Potassium | ppm    | ASTM D5185m >20 | <b>0</b>   | ---      | ---      |
| Water     | %      | ASTM D6304 >0.1 | <b>NEG</b> | ---      | ---      |

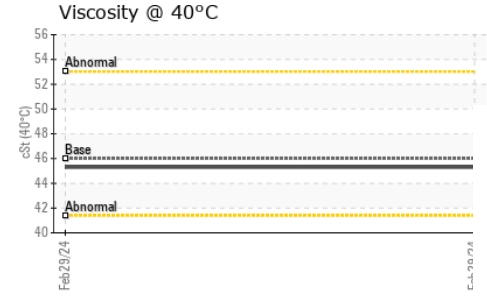
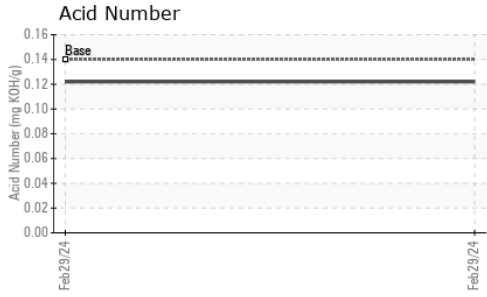
## FLUID DEGRADATION

|                  | method   | limit/base      | current      | history1 | history2 |
|------------------|----------|-----------------|--------------|----------|----------|
| Acid Number (AN) | mg KOH/g | ASTM D8045 0.14 | <b>0.122</b> | ---      | ---      |

## VISUAL

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

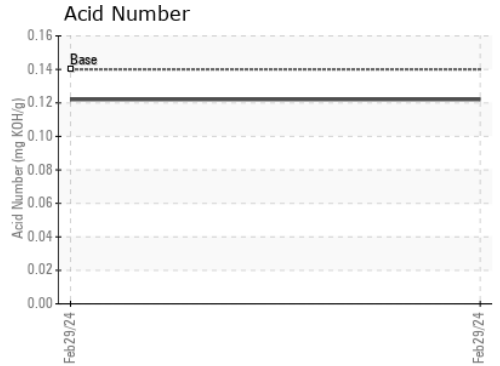
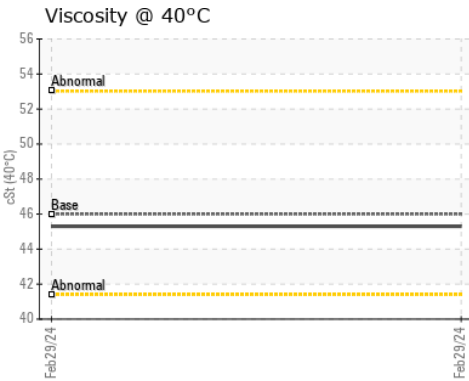
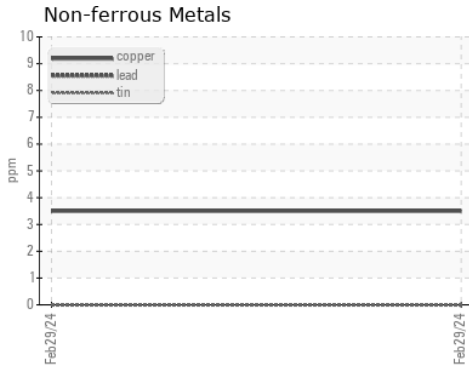
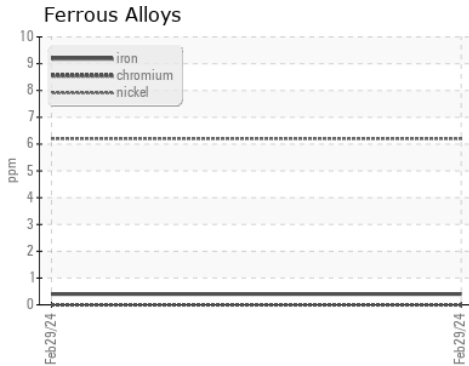
# OIL ANALYSIS REPORT



| FLUID PROPERTIES | method | limit/base | current | history1    | history2 |     |
|------------------|--------|------------|---------|-------------|----------|-----|
| Visc @ 40°C      | cSt    | ASTM D445  | 46      | <b>45.3</b> | ---      | --- |

| 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.** : UCH06125775      **Received** : 21 Mar 2024  
**Lab Number** : **06125775**      **Tested** : 26 Mar 2024  
**Unique Number** : 10939926      **Diagnosed** : 26 Mar 2024 - Jonathan Hester  
**Test Package** : IND 2 ( Additional Tests: KF, PrtCount )

**AIRMATIC COMPRESSOR SYSTEMS**  
 700 WASHINGTON AVE  
 CARLSTADT, NJ  
 US 07072  
 Contact: ELVIN DIAZ  
 ediaz@airmaticcompressor.com; canastasio@wearcheckusa.com  
 T: (800)864-7621  
 F: (201)342-6241

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)