



# OIL ANALYSIS REPORT

Sample Rating Trend



**NORMAL**



Area

**ROTO XTEND [418225]**

Machine Id

**ATLAS COPCO API233290 - NEWARK ENERGY CENTER**

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>UCH06173962</b> | ---      | ---      |
| Sample Date   | Client Info |             | <b>26 Apr 2024</b> | ---      | ---      |
| Machine Age   | hrs         | Client Info | <b>31681</b>       | ---      | ---      |
| Oil Age       | hrs         | Client Info | <b>5158</b>        | ---      | ---      |
| Oil Changed   | Client Info |             | <b>Not Changed</b> | ---      | ---      |
| Sample Status |             |             | <b>NORMAL</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>&lt;1</b> | ---      | ---      |
| Chromium | ppm    | ASTM D5185m >5  | <b>&lt;1</b> | ---      | ---      |
| Nickel   | ppm    | ASTM D5185m     | <b>&lt;1</b> | ---      | ---      |
| Titanium | ppm    | ASTM D5185m     | <b>&lt;1</b> | ---      | ---      |
| Silver   | ppm    | ASTM D5185m     | <b>0</b>     | ---      | ---      |
| Aluminum | ppm    | ASTM D5185m >15 | <b>&lt;1</b> | ---      | ---      |
| Lead     | ppm    | ASTM D5185m >65 | <b>&lt;1</b> | ---      | ---      |
| Copper   | ppm    | ASTM D5185m >65 | <b>&lt;1</b> | ---      | ---      |
| Tin      | ppm    | ASTM D5185m >10 | <b>&lt;1</b> | ---      | ---      |
| Vanadium | ppm    | ASTM D5185m     | <b>&lt;1</b> | ---      | ---      |
| Cadmium  | ppm    | ASTM D5185m     | <b>&lt;1</b> | ---      | ---      |

## ADDITIVES

|            | method | limit/base  | current      | history1 | history2 |
|------------|--------|-------------|--------------|----------|----------|
| Boron      | ppm    | ASTM D5185m | <b>0</b>     | ---      | ---      |
| Barium     | ppm    | ASTM D5185m | <b>0</b>     | ---      | ---      |
| Molybdenum | ppm    | ASTM D5185m | <b>&lt;1</b> | ---      | ---      |
| Manganese  | ppm    | ASTM D5185m | <b>&lt;1</b> | ---      | ---      |
| Magnesium  | ppm    | ASTM D5185m | <b>&lt;1</b> | ---      | ---      |
| Calcium    | ppm    | ASTM D5185m | <b>0</b>     | ---      | ---      |
| Phosphorus | ppm    | ASTM D5185m | <b>16</b>    | ---      | ---      |
| Zinc       | ppm    | ASTM D5185m | <b>16</b>    | ---      | ---      |
| Sulfur     | ppm    | ASTM D5185m | <b>0</b>     | ---      | ---      |

## CONTAMINANTS

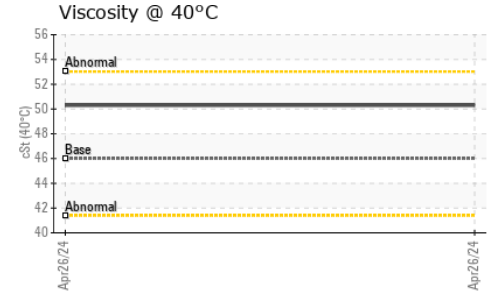
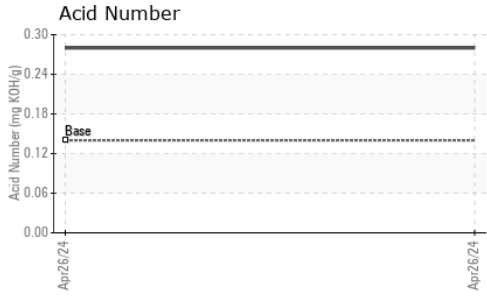
|           | method | limit/base      | current  | history1 | history2 |
|-----------|--------|-----------------|----------|----------|----------|
| Silicon   | ppm    | ASTM D5185m >35 | <b>2</b> | ---      | ---      |
| Sodium    | ppm    | ASTM D5185m     | <b>0</b> | ---      | ---      |
| Potassium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

## FLUID DEGRADATION

|                  | method   | limit/base      | current     | history1 | history2 |
|------------------|----------|-----------------|-------------|----------|----------|
| Acid Number (AN) | mg KOH/g | ASTM D8045 0.14 | <b>0.28</b> | ---      | ---      |



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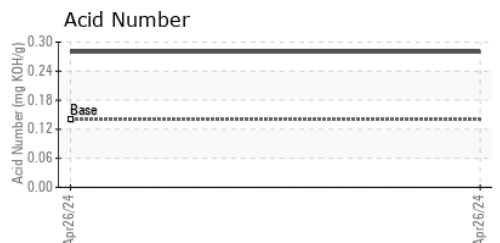
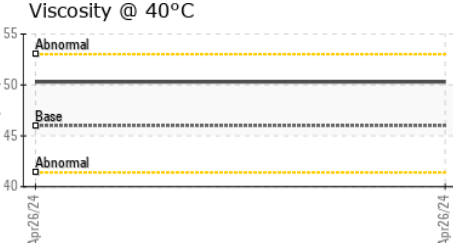
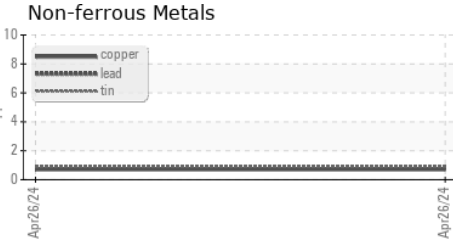
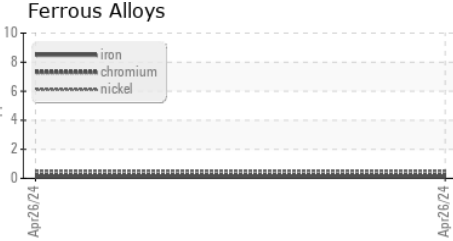
| VISUAL           | method | limit/base | current | history1     | history2 |     |
|------------------|--------|------------|---------|--------------|----------|-----|
| White Metal      | scalar | *Visual    | NONE    | <b>NONE</b>  | ---      | --- |
| Yellow Metal     | scalar | *Visual    | NONE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

| FLUID PROPERTIES | method | limit/base   | current     | history1 | history2 |
|------------------|--------|--------------|-------------|----------|----------|
| Visc @ 40°C      | cSt    | ASTM D445 46 | <b>50.3</b> | ---      | ---      |

### SAMPLE IMAGES

|        | method | limit/base | current | history1 | history2 |
|--------|--------|------------|---------|----------|----------|
| Color  |        |            |         |          |          |
| Bottom |        |            |         |          |          |

### GRAPHS



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : UCH06173962      **Received** : 09 May 2024  
**Lab Number** : **06173962**      **Tested** : 10 May 2024  
**Unique Number** : 11020015      **Diagnosed** : 12 May 2024 - Don Baldrige  
**Test Package** : IND 2

**AIRMATIC COMPRESSOR SYSTEMS**  
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 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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