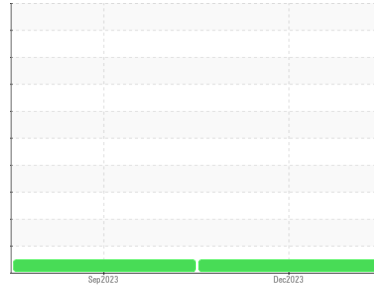




# OIL ANALYSIS REPORT

Sample Rating Trend

**NORMAL**



Area  
**NOT GIVEN**  
 Machine Id  
**ATLAS COPCO APF238945 - FLEX 3**  
 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>UCH06056831</b> | UCH05983713 | ---      |
| Sample Date   | Client Info |             | <b>28 Dec 2023</b> | 21 Sep 2023 | ---      |
| Machine Age   | hrs         | Client Info | <b>10980</b>       | 9400        | ---      |
| Oil Age       | hrs         | Client Info | <b>0</b>           | 1600        | ---      |
| Oil Changed   | Client Info |             | <b>Not Chngd</b>   | Not Chngd   | ---      |
| 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>0</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>0</b>     | <1       | ---      |
| Lead     | ppm    | ASTM D5185m >65 | <b>0</b>     | 0        | ---      |
| Copper   | ppm    | ASTM D5185m >65 | <b>0</b>     | <1       | ---      |
| Tin      | ppm    | ASTM D5185m >10 | <b>0</b>     | 0        | ---      |
| Vanadium | ppm    | ASTM D5185m     | <b>&lt;1</b> | 0        | ---      |
| Cadmium  | ppm    | ASTM D5185m     | <b>0</b>     | 0        | ---      |

## ADDITIVES

|            | method | limit/base  | current   | history1 | history2 |
|------------|--------|-------------|-----------|----------|----------|
| Boron      | ppm    | ASTM D5185m | <b>0</b>  | 0        | ---      |
| Barium     | ppm    | ASTM D5185m | <b>0</b>  | 0        | ---      |
| Molybdenum | ppm    | ASTM D5185m | <b>0</b>  | 0        | ---      |
| Manganese  | ppm    | ASTM D5185m | <b>0</b>  | <1       | ---      |
| Magnesium  | ppm    | ASTM D5185m | <b>0</b>  | 0        | ---      |
| Calcium    | ppm    | ASTM D5185m | <b>0</b>  | 0        | ---      |
| Phosphorus | ppm    | ASTM D5185m | <b>15</b> | 2        | ---      |
| Zinc       | ppm    | ASTM D5185m | <b>10</b> | 0        | ---      |
| Sulfur     | ppm    | ASTM D5185m | <b>12</b> | 37       | ---      |

## CONTAMINANTS

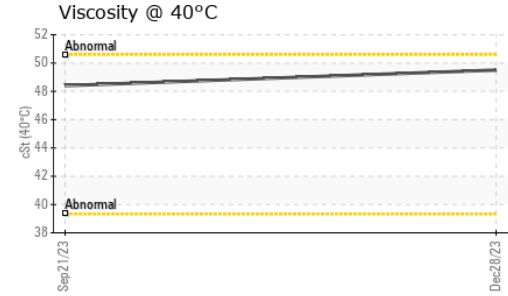
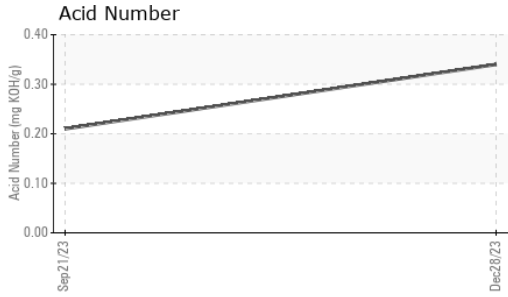
|           | method | limit/base      | current      | history1 | history2 |
|-----------|--------|-----------------|--------------|----------|----------|
| Silicon   | ppm    | ASTM D5185m >35 | <b>0</b>     | 0        | ---      |
| Sodium    | ppm    | ASTM D5185m     | <b>&lt;1</b> | 1        | ---      |
| 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 | <b>0.34</b> | 0.21     | ---      |



# OIL ANALYSIS REPORT



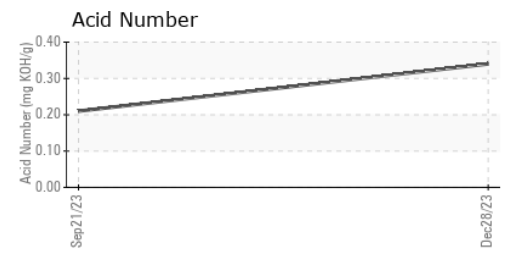
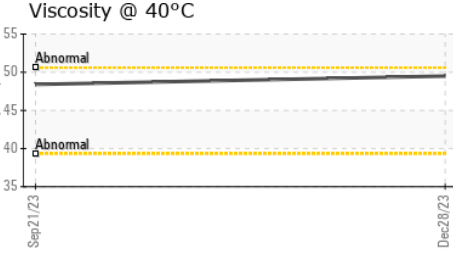
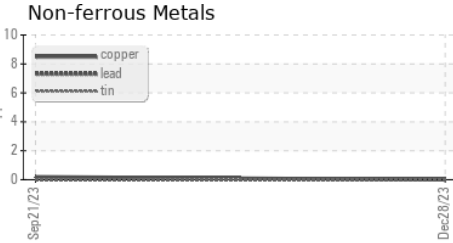
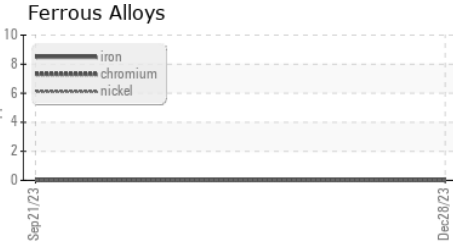
| VISUAL           | method | limit/base | current | history1 | history2 |
|------------------|--------|------------|---------|----------|----------|
| White Metal      | scalar | *Visual    | NONE    | NONE     | ---      |
| Yellow Metal     | scalar | *Visual    | NONE    | NONE     | ---      |
| 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  | <b>49.5</b> | 48.4     | ---      |

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

|        |  |  |  |  |  |          |
|--------|--|--|--|--|--|----------|
| Color  |  |  |  |  |  | no image |
| Bottom |  |  |  |  |  | no image |

## GRAPHS



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : UCH06056831    **Received** : 10 Jan 2024  
**Lab Number** : **06056831**    **Diagnosed** : 11 Jan 2024  
**Unique Number** : 10822780    **Diagnostician** : Don Baldrige  
**Test Package** : IND 2

**AIR TECHNOLOGIES INC (GR)**  
 160 84TH STREET SW SUITE 1  
 BYRON CENTER, MI  
 US 49315  
 Contact: STEPHANIE CLAYPOOL  
 stephanie.claypool@aircompressors.com  
 T:  
 F: (616)281-6737

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)