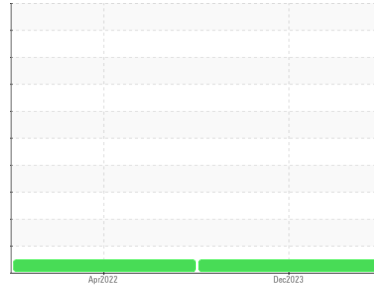




# OIL ANALYSIS REPORT

Sample Rating Trend

**NORMAL**



Area  
**SUMMIT SH 32**  
 Machine Id  
**ATLAS COPCO 90133 - TEXTRON AVIATION (S/N HOL023937)**  
 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 acceptable for the time in service.

## SAMPLE INFORMATION

|               | method      | limit/base  | current            | history1    | history2 |
|---------------|-------------|-------------|--------------------|-------------|----------|
| Sample Number | Client Info |             | <b>UCH06062930</b> | UCH05518296 | ---      |
| Sample Date   | Client Info |             | <b>19 Dec 2023</b> | 04 Apr 2022 | ---      |
| Machine Age   | hrs         | Client Info | <b>10</b>          | 6           | ---      |
| Oil Age       | hrs         | Client Info | <b>10</b>          | 6           | ---      |
| Oil Changed   | Client Info |             | <b>Not Changed</b> | Not Changed | ---      |
| 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>&lt;1</b> | <1       | ---      |
| 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>&lt;1</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>8</b>   | 0        | ---      |
| Molybdenum | ppm    | ASTM D5185m | <b>0</b>   | 0        | ---      |
| Manganese  | ppm    | ASTM D5185m | <b>0</b>   | 0        | ---      |
| Magnesium  | ppm    | ASTM D5185m | <b>0</b>   | 0        | ---      |
| Calcium    | ppm    | ASTM D5185m | <b>0</b>   | <1       | ---      |
| Phosphorus | ppm    | ASTM D5185m | <b>369</b> | 450      | ---      |
| Zinc       | ppm    | ASTM D5185m | <b>25</b>  | 37       | ---      |
| Sulfur     | ppm    | ASTM D5185m | <b>45</b>  | 131      | ---      |

## CONTAMINANTS

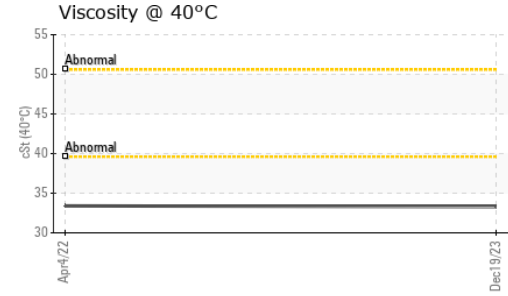
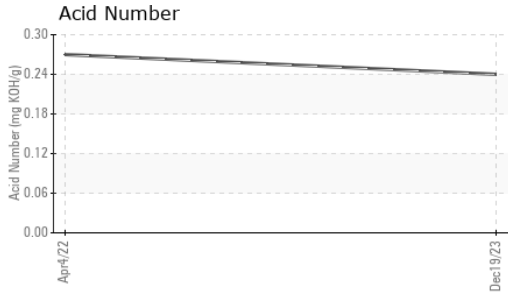
|           | method | limit/base      | current  | history1 | history2 |
|-----------|--------|-----------------|----------|----------|----------|
| Silicon   | ppm    | ASTM D5185m >35 | <b>3</b> | 3        | ---      |
| Sodium    | ppm    | ASTM D5185m     | <b>1</b> | <1       | ---      |
| Potassium | 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>0.24</b> | 0.27     | ---      |



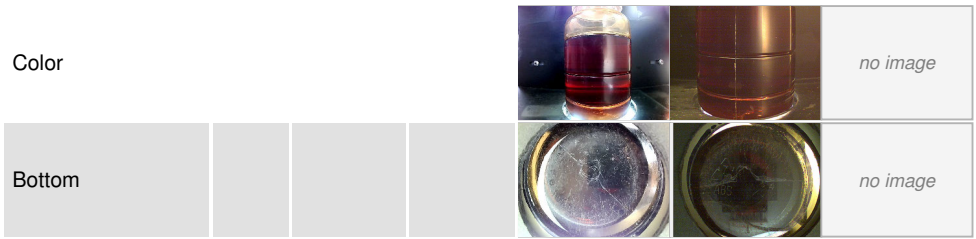
# OIL ANALYSIS REPORT



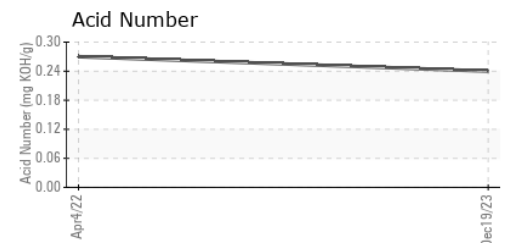
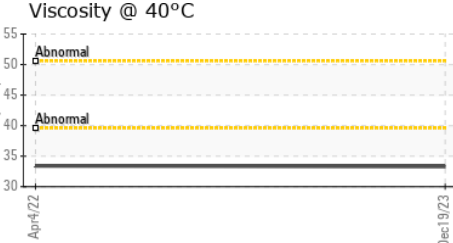
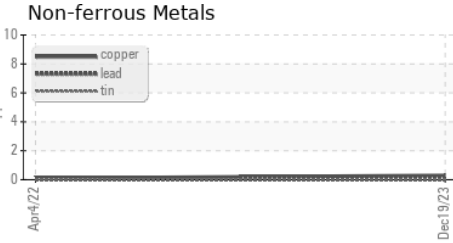
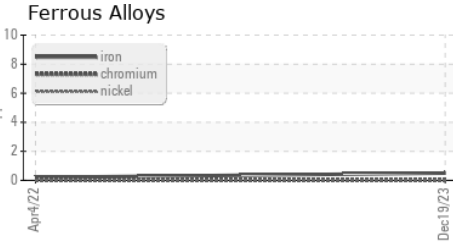
| VISUAL           | method | limit/base | current | history1 | history2 |
|------------------|--------|------------|---------|----------|----------|
| White Metal      | scalar | *Visual    | NONE    | NONE     | ---      |
| Yellow Metal     | scalar | *Visual    | NONE    | NONE     | ---      |
| 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>33.3</b> | 33.4     | ---      |

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



## GRAPHS



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : UCH06062930 **Received** : 17 Jan 2024  
**Lab Number** : **06062930** **Diagnosed** : 19 Jan 2024  
**Unique Number** : 10834312 **Diagnostician** : Don Baldrige  
**Test Package** : IND 2

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 US 67211  
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 mstout@aircapeq.com  
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 F:

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)