



# OIL ANALYSIS REPORT

Sample Rating Trend



**NORMAL**



Area  
**ACAS 140 [8389]**  
 Machine Id  
**ATLAS COPCO AII383214**  
 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>UCH06157800</b> | ---      | ---      |
| Sample Date        | Client Info |             |            | <b>04 Apr 2024</b> | ---      | ---      |
| Machine Age        | hrs         | Client Info |            | <b>105843</b>      | ---      | ---      |
| Oil Age            | hrs         | Client Info |            | <b>1500</b>        | ---      | ---      |
| Oil Changed        | Client Info |             |            | <b>Changed</b>     | ---      | ---      |
| Sample Status      |             |             |            | <b>NORMAL</b>      | ---      | ---      |

| WEAR METALS |     | method      | limit/base | current      | history1 | history2 |
|-------------|-----|-------------|------------|--------------|----------|----------|
| Iron        | ppm | ASTM D5185m | >50        | <b>0</b>     | ---      | ---      |
| Chromium    | ppm | ASTM D5185m | >5         | <b>&lt;1</b> | ---      | ---      |
| Nickel      | ppm | ASTM D5185m |            | <b>0</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>0</b>     | ---      | ---      |
| Tin         | ppm | ASTM D5185m | >10        | <b>&lt;1</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 | 5          | <b>0</b>  | ---      | ---      |
| Barium     | ppm | ASTM D5185m | 5          | <b>0</b>  | ---      | ---      |
| Molybdenum | ppm | ASTM D5185m | 5          | <b>0</b>  | ---      | ---      |
| Manganese  | ppm | ASTM D5185m |            | <b>0</b>  | ---      | ---      |
| Magnesium  | ppm | ASTM D5185m | 5          | <b>0</b>  | ---      | ---      |
| Calcium    | ppm | ASTM D5185m | 12         | <b>0</b>  | ---      | ---      |
| Phosphorus | ppm | ASTM D5185m | 12         | <b>22</b> | ---      | ---      |
| Zinc       | ppm | ASTM D5185m | 12         | <b>0</b>  | ---      | ---      |
| Sulfur     | ppm | ASTM D5185m | 1000       | <b>0</b>  | ---      | ---      |

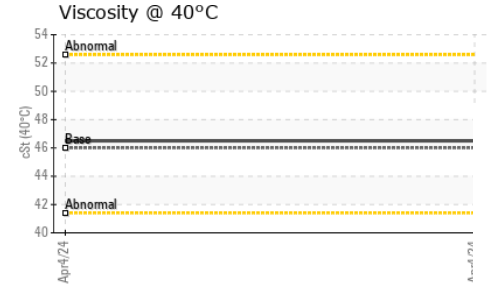
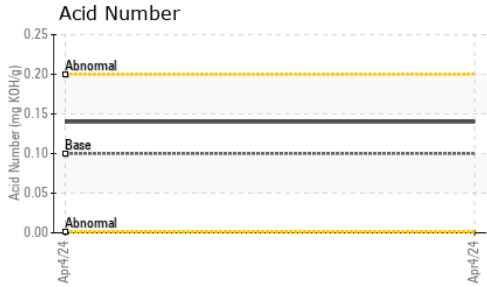
| CONTAMINANTS |     | method      | limit/base | current      | history1 | history2 |
|--------------|-----|-------------|------------|--------------|----------|----------|
| Silicon      | ppm | ASTM D5185m | >35        | <b>2</b>     | ---      | ---      |
| Sodium       | ppm | ASTM D5185m |            | <b>&lt;1</b> | ---      | ---      |
| Potassium    | ppm | ASTM D5185m | >20        | <b>&lt;1</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 | 0.10       | <b>0.14</b> | ---      | ---      |

| 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>   | ---      | ---      |





# OIL ANALYSIS REPORT



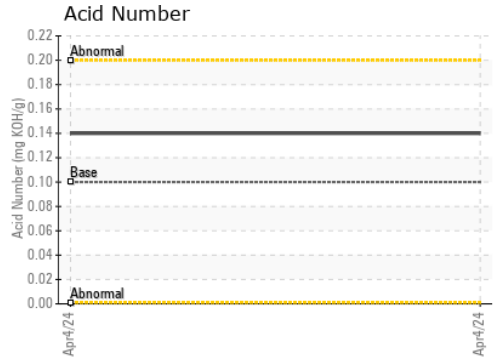
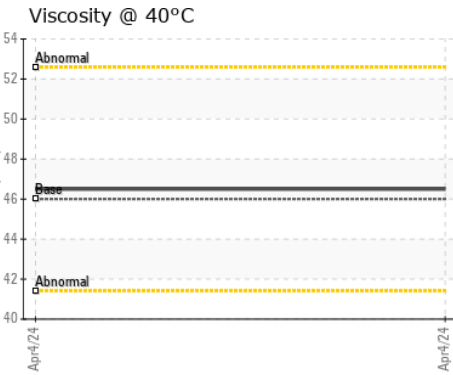
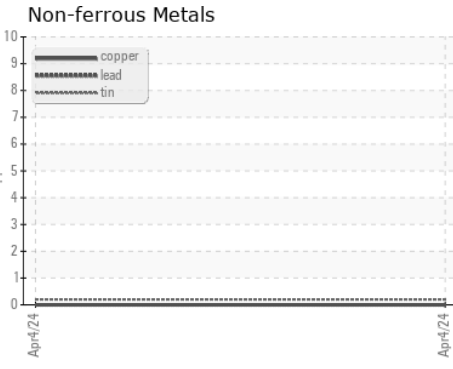
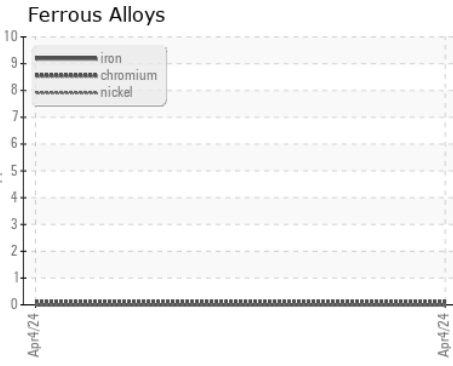
### FLUID PROPERTIES

| method      | limit/base | current   | history1 | history2 |     |
|-------------|------------|-----------|----------|----------|-----|
| Visc @ 40°C | cSt        | ASTM D445 | 46       | 46.5     | --- |

### 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.** : UCH06157800  
**Lab Number** : 06157800  
**Unique Number** : 10993223  
**Test Package** : IND 2 ( Additional Tests: KF )

**Received** : 23 Apr 2024  
**Tested** : 25 Apr 2024  
**Diagnosed** : 25 Apr 2024 - Don Baldrige

**ADVANCED COMPRESSED AIR SOLUTIONS (ACAS)**  
 9421 FM 2920 RD BLDG 23  
 TOMBALL, TX  
 US 77375  
 Contact: JIM SUAREZ  
 jim@advancedcompressedair.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)

T:  
F: