



# OIL ANALYSIS REPORT

Sample Rating Trend

**NORMAL**



Area  
**DURATECH HI**  
 Machine Id  
**ATLAS COPCO API571839 - STEELVILLE MFG BLDG 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>UCH05966460</b> | ---      | ---      |
| Sample Date        | Client Info |             |            | <b>12 Sep 2023</b> | ---      | ---      |
| Machine Age        | hrs         | Client Info |            | <b>26210</b>       | ---      | ---      |
| Oil Age            | hrs         | Client Info |            | <b>10630</b>       | ---      | ---      |
| Oil Changed        | Client Info |             |            | <b>N/A</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>0</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>&lt;1</b> | ---      | ---      |
| Lead        | ppm | ASTM D5185m | >65        | <b>0</b>     | ---      | ---      |
| Copper      | ppm | ASTM D5185m | >65        | <b>&lt;1</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 | 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>24</b> | ---      | ---      |
| Zinc       | ppm | ASTM D5185m | 12         | <b>5</b>  | ---      | ---      |
| Sulfur     | ppm | ASTM D5185m | 1000       | <b>50</b> | ---      | ---      |

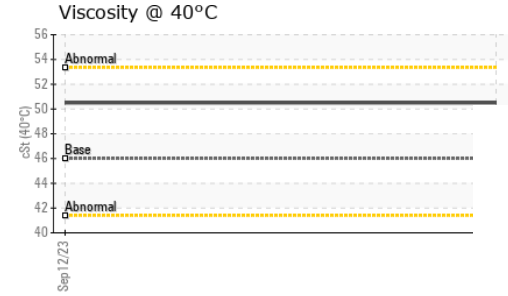
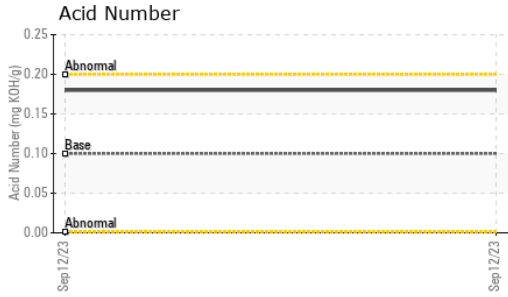
| CONTAMINANTS |     | method      | limit/base | current      | history1 | history2 |
|--------------|-----|-------------|------------|--------------|----------|----------|
| Silicon      | ppm | ASTM D5185m | >35        | <b>&lt;1</b> | ---      | ---      |
| Sodium       | ppm | ASTM D5185m |            | <b>0</b>     | ---      | ---      |
| Potassium    | ppm | ASTM D5185m | >20        | <b>&lt;1</b> | ---      | ---      |

| FLUID DEGRADATION |          | method     | limit/base | current     | history1 | history2 |
|-------------------|----------|------------|------------|-------------|----------|----------|
| Acid Number (AN)  | mg KOH/g | ASTM D8045 | 0.10       | <b>0.18</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



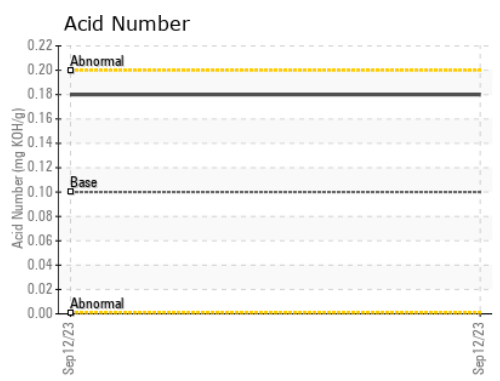
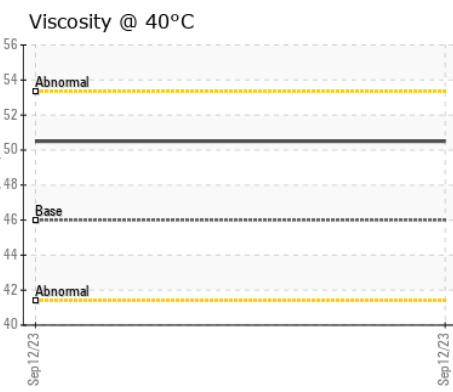
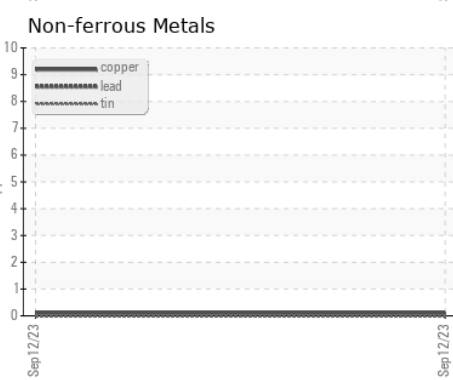
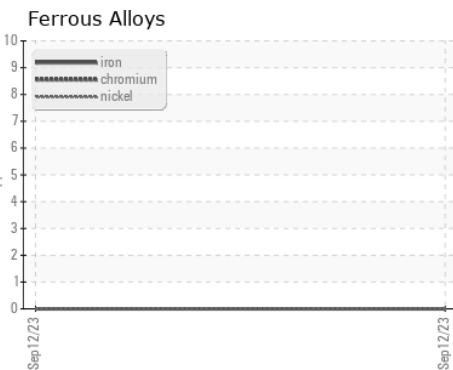
### FLUID PROPERTIES

| method      | limit/base    | current | history1 | history2 |     |
|-------------|---------------|---------|----------|----------|-----|
| Visc @ 40°C | cSt ASTM D445 | 46      | 50.5     | ---      | --- |

### 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.** : UCH05966460 **Received** : 02 Oct 2023  
**Lab Number** : 05966460 **Diagnosed** : 03 Oct 2023  
**Unique Number** : 10673011 **Diagnostician** : Don Baldrige  
**Test Package** : IND 2 ( Additional Tests: KF )

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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)