



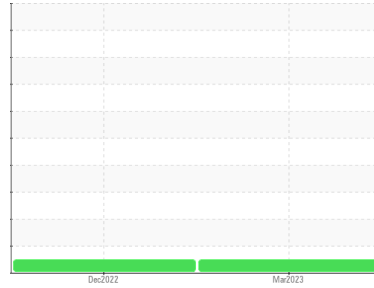
# OIL ANALYSIS REPORT

Sample Rating Trend

**NORMAL**



Area  
**NOT GIVEN [4107108484]**  
 Machine Id  
**HOP301779 - PUMP 5**  
 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>UCH05798812</b> | UCH05723173 | ---      |
| Sample Date        | Client Info     |        |            | <b>21 Mar 2023</b> | 20 Dec 2022 | ---      |
| Machine Age        | hrs Client Info |        |            | <b>3238</b>        | 0           | ---      |
| Oil Age            | hrs Client Info |        |            | <b>0</b>           | 0           | ---      |
| Oil Changed        | Client Info     |        |            | <b>N/A</b>         | N/A         | ---      |
| Sample Status      |                 |        |            | <b>NORMAL</b>      | NORMAL      | ---      |

| WEAR METALS |     | method      | limit/base | current  | history1 | history2 |
|-------------|-----|-------------|------------|----------|----------|----------|
| Iron        | ppm | ASTM D5185m | >50        | <b>2</b> | 2        | ---      |
| Chromium    | ppm | ASTM D5185m | >10        | <b>0</b> | 0        | ---      |
| Nickel      | ppm | ASTM D5185m |            | <b>0</b> | <1       | ---      |
| Titanium    | ppm | ASTM D5185m |            | <b>0</b> | 0        | ---      |
| Silver      | ppm | ASTM D5185m |            | <b>0</b> | 0        | ---      |
| Aluminum    | ppm | ASTM D5185m | >25        | <b>0</b> | 0        | ---      |
| Lead        | ppm | ASTM D5185m | >25        | <b>0</b> | 0        | ---      |
| Copper      | ppm | ASTM D5185m | >50        | <b>0</b> | 0        | ---      |
| Tin         | ppm | ASTM D5185m | >15        | <b>0</b> | 0        | ---      |
| Vanadium    | ppm | ASTM D5185m |            | <b>0</b> | 0        | ---      |
| Cadmium     | ppm | ASTM D5185m |            | <b>0</b> | 0        | ---      |

| ADDITIVES  |     | method      | limit/base | current      | history1 | history2 |
|------------|-----|-------------|------------|--------------|----------|----------|
| Boron      | ppm | ASTM D5185m |            | <b>&lt;1</b> | 2        | ---      |
| Barium     | ppm | ASTM D5185m |            | <b>0</b>     | 0        | ---      |
| Molybdenum | ppm | ASTM D5185m |            | <b>0</b>     | 0        | ---      |
| Manganese  | ppm | ASTM D5185m |            | <b>&lt;1</b> | 0        | ---      |
| Magnesium  | ppm | ASTM D5185m |            | <b>0</b>     | <1       | ---      |
| Calcium    | ppm | ASTM D5185m |            | <b>0</b>     | 0        | ---      |
| Phosphorus | ppm | ASTM D5185m |            | <b>240</b>   | 230      | ---      |
| Zinc       | ppm | ASTM D5185m |            | <b>1</b>     | 3        | ---      |
| Sulfur     | ppm | ASTM D5185m |            | <b>608</b>   | 588      | ---      |

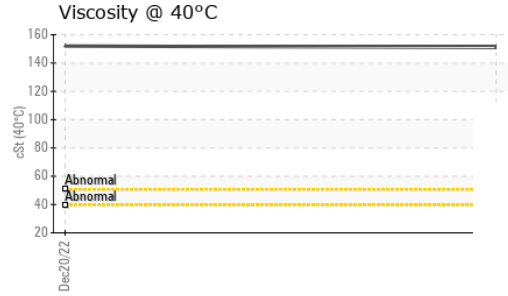
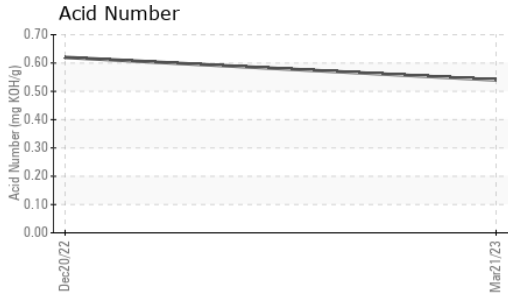
| CONTAMINANTS |     | method      | limit/base | current      | history1 | history2 |
|--------------|-----|-------------|------------|--------------|----------|----------|
| Silicon      | ppm | ASTM D5185m | >25        | <b>1</b>     | 1        | ---      |
| Sodium       | ppm | ASTM D5185m |            | <b>0</b>     | <1       | ---      |
| Potassium    | ppm | ASTM D5185m | >20        | <b>&lt;1</b> | <1       | ---      |

| FLUID DEGRADATION |          | method     | limit/base | current     | history1 | history2 |
|-------------------|----------|------------|------------|-------------|----------|----------|
| Acid Number (AN)  | mg KOH/g | ASTM D8045 |            | <b>0.54</b> | 0.62     | ---      |

| VISUAL           |        | method  | limit/base | current      | history1 | history2 |
|------------------|--------|---------|------------|--------------|----------|----------|
| White Metal      | scalar | *Visual | NONE       | <b>NONE</b>  | NONE     | ---      |
| Yellow Metal     | scalar | *Visual | NONE       | <b>NONE</b>  | NONE     | ---      |
| Precipitate      | scalar | *Visual | NONE       | <b>NONE</b>  | NONE     | ---      |
| Silt             | scalar | *Visual | NONE       | <b>NONE</b>  | NONE     | ---      |
| Debris           | scalar | *Visual | NONE       | <b>NONE</b>  | NONE     | ---      |
| Sand/Dirt        | scalar | *Visual | NONE       | <b>NONE</b>  | NONE     | ---      |
| Appearance       | scalar | *Visual | NORML      | <b>NORML</b> | NORML    | ---      |
| Odor             | scalar | *Visual | NORML      | <b>NORML</b> | NORML    | ---      |
| Emulsified Water | scalar | *Visual | >0.1       | <b>NEG</b>   | NEG      | ---      |
| Free Water       | scalar | *Visual |            | <b>NEG</b>   | NEG      | ---      |



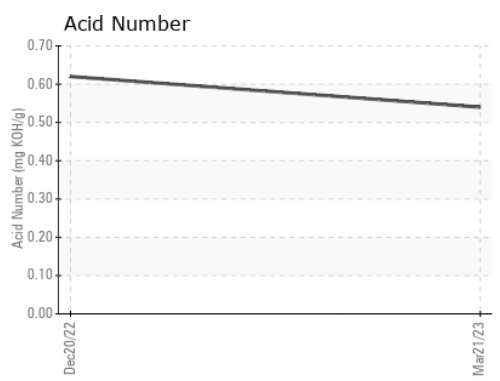
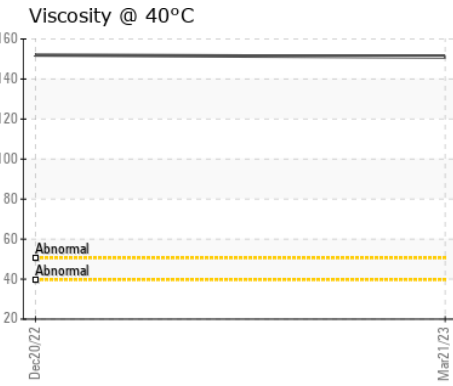
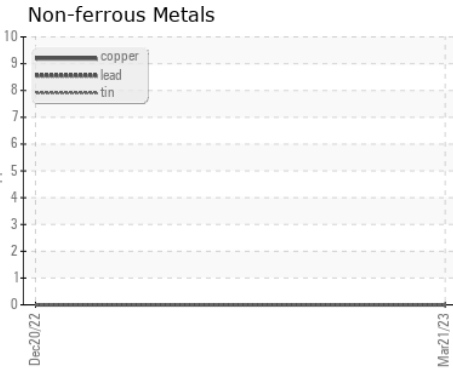
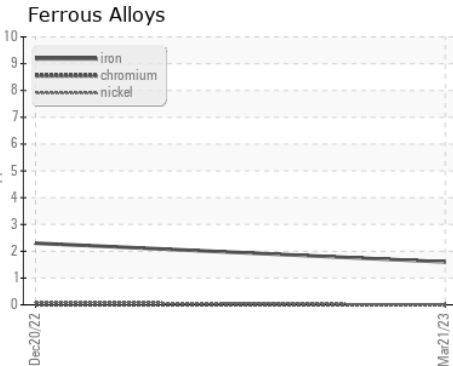
# OIL ANALYSIS REPORT



| FLUID PROPERTIES |     | method    | limit/base | current | history1 | history2 |
|------------------|-----|-----------|------------|---------|----------|----------|
| Visc @ 40°C      | cSt | ASTM D445 |            | 151     | 152      | ---      |

| SAMPLE IMAGES |  | method | limit/base | current | history1 | history2 |
|---------------|--|--------|------------|---------|----------|----------|
| Color         |  |        |            |         |          | no image |
| Bottom        |  |        |            |         |          | no image |

## GRAPHS



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : UCH05798812 **Received** : 22 Mar 2023  
**Lab Number** : **05798812** **Diagnosed** : 25 Mar 2023  
**Unique Number** : 10388496 **Diagnostician** : Don Baldrige  
**Test Package** : IND 2

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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