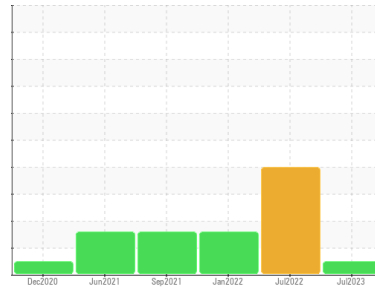


Area  
**SMART OIL 6000**  
Machine Id  
**HERTZ HBD00153 - WEIMAN**  
Component  
**Compressor**  
Fluid  
**SMARTOIL 6000 (1 GAL)**



**DIAGNOSIS**

**Recommendation**

Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.

**Wear**

All component wear rates are normal.

**Contamination**

Moderate concentration of visible dirt/debris present 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>UHK0000250</b>  | UHK05603507 | UCH05444319 |
| Sample Date        | Client Info |             |            | <b>13 Jul 2023</b> | 22 Jul 2022 | 06 Jan 2022 |
| Machine Age        | hrs         | Client Info |            | <b>5335</b>        | 3094        | 3069        |
| Oil Age            | hrs         | Client Info |            | <b>2218</b>        | 300         | 0           |
| Oil Changed        | Client Info |             |            | <b>Changed</b>     | Not Changd  | Not Changd  |
| Sample Status      |             |             |            | <b>NORMAL</b>      | ATTENTION   | ATTENTION   |

| WEAR METALS |     | method      | limit/base | current      | history1 | history2 |
|-------------|-----|-------------|------------|--------------|----------|----------|
| Iron        | ppm | ASTM D5185m | >50        | <b>3</b>     | <1       | 1        |
| Chromium    | ppm | ASTM D5185m | >10        | <b>0</b>     | 0        | 0        |
| Nickel      | ppm | ASTM D5185m |            | <b>&lt;1</b> | <1       | 0        |
| Titanium    | ppm | ASTM D5185m |            | <b>0</b>     | 0        | 0        |
| Silver      | ppm | ASTM D5185m |            | <b>0</b>     | <1       | 0        |
| Aluminum    | ppm | ASTM D5185m | >25        | <b>2</b>     | 0        | 0        |
| Lead        | ppm | ASTM D5185m | >25        | <b>0</b>     | 0        | 0        |
| Copper      | ppm | ASTM D5185m | >50        | <b>3</b>     | <1       | 1        |
| Tin         | ppm | ASTM D5185m | >15        | <b>2</b>     | <1       | 1        |
| Antimony    | ppm | ASTM D5185m |            | <b>---</b>   | ---      | <1       |
| Vanadium    | ppm | ASTM D5185m |            | <b>0</b>     | 0        | 0        |
| Cadmium     | ppm | ASTM D5185m |            | <b>0</b>     | 0        | 0        |

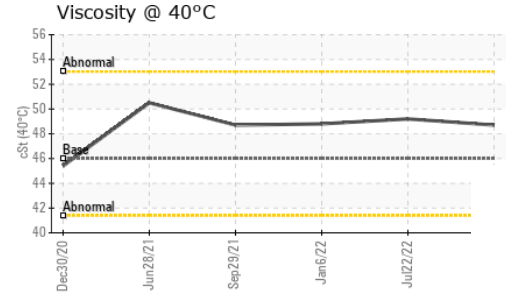
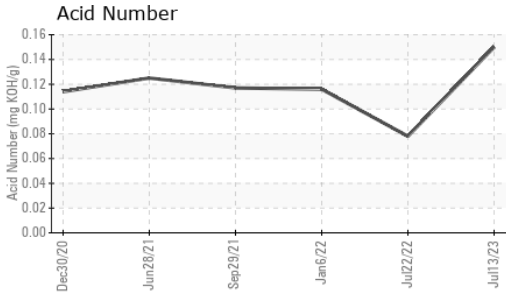
| ADDITIVES  |     | method      | limit/base | current     | history1 | history2 |
|------------|-----|-------------|------------|-------------|----------|----------|
| Boron      | ppm | ASTM D5185m |            | <b>0</b>    | <1       | 1        |
| Barium     | ppm | ASTM D5185m |            | <b>0</b>    | 0        | 0        |
| Molybdenum | ppm | ASTM D5185m |            | <b>0</b>    | 0        | 0        |
| Manganese  | ppm | ASTM D5185m |            | <b>0</b>    | 0        | 0        |
| Magnesium  | ppm | ASTM D5185m |            | <b>0</b>    | 0        | 0        |
| Calcium    | ppm | ASTM D5185m | 20         | <b>0</b>    | 0        | 0        |
| Phosphorus | ppm | ASTM D5185m |            | <b>597</b>  | 591      | 571      |
| Zinc       | ppm | ASTM D5185m |            | <b>2</b>    | 5        | 20       |
| Sulfur     | ppm | ASTM D5185m |            | <b>1061</b> | 713      | 1509     |

| CONTAMINANTS |     | method      | limit/base | current      | history1 | history2 |
|--------------|-----|-------------|------------|--------------|----------|----------|
| Silicon      | ppm | ASTM D5185m | >25        | <b>4</b>     | <1       | <1       |
| Sodium       | ppm | ASTM D5185m |            | <b>0</b>     | 0        | <1       |
| Potassium    | ppm | ASTM D5185m | >20        | <b>&lt;1</b> | 0        | 0        |

| FLUID DEGRADATION |          | method     | limit/base | current     | history1 | history2 |
|-------------------|----------|------------|------------|-------------|----------|----------|
| Acid Number (AN)  | mg KOH/g | ASTM D8045 |            | <b>0.15</b> | 0.078    | 0.116    |

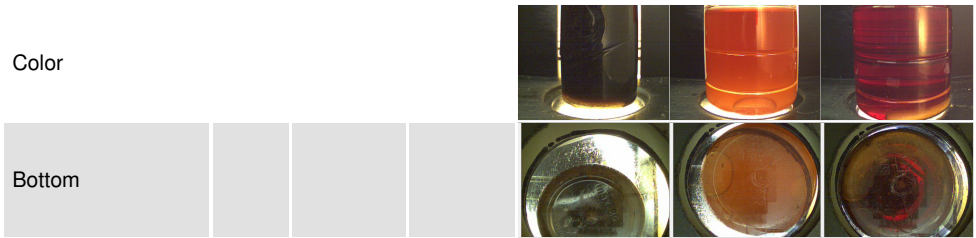
| VISUAL           |        | method  | limit/base | current      | history1 | history2 |
|------------------|--------|---------|------------|--------------|----------|----------|
| White Metal      | scalar | *Visual | NONE       | <b>MODER</b> | NONE     | NONE     |
| Yellow Metal     | scalar | *Visual | NONE       | <b>NONE</b>  | NONE     | NONE     |
| Precipitate      | scalar | *Visual | NONE       | <b>NONE</b>  | NONE     | NONE     |
| Silt             | scalar | *Visual | NONE       | <b>NONE</b>  | NONE     | NONE     |
| Debris           | scalar | *Visual | NONE       | <b>MODER</b> | LIGHT    | LIGHT    |
| Sand/Dirt        | scalar | *Visual | NONE       | <b>NONE</b>  | NONE     | NONE     |
| Appearance       | scalar | *Visual | NORML      | <b>NORML</b> | ▲ HAZY   | NORML    |
| Odor             | scalar | *Visual | NORML      | <b>NORML</b> | NORML    | NORML    |
| Emulsified Water | scalar | *Visual | >0.1       | <b>NEG</b>   | 0.2%     | 0.2%     |
| Free Water       | scalar | *Visual |            | <b>NEG</b>   | 0.2%     | 0.2%     |

# OIL ANALYSIS REPORT

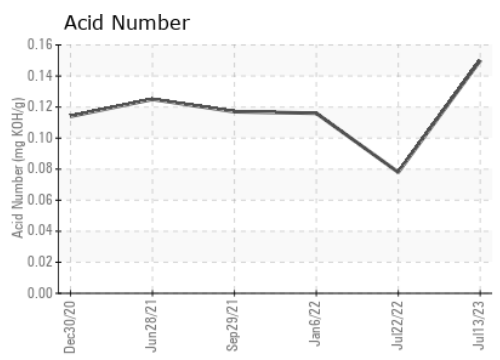
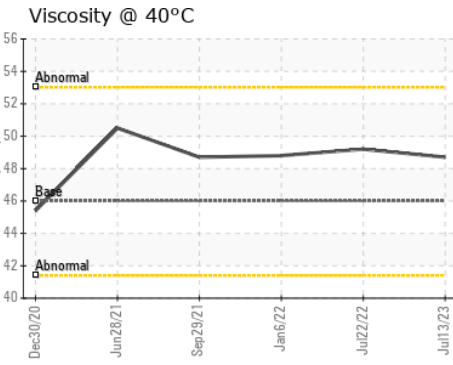
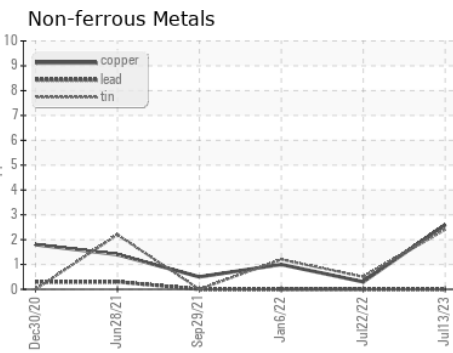
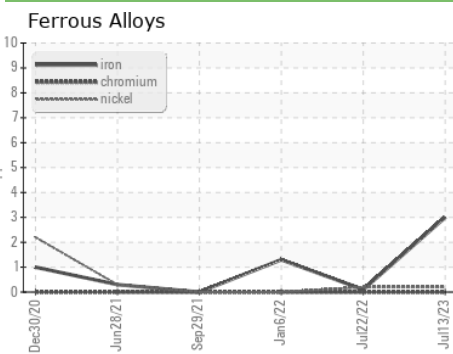


| FLUID PROPERTIES | method | limit/base   | current     | history1 | history2 |
|------------------|--------|--------------|-------------|----------|----------|
| Visc @ 40°C      | cSt    | ASTM D445 46 | <b>48.7</b> | 49.2     | 48.8     |

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



## GRAPHS



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : UHK0000250 **Received** : 18 Jul 2023  
**Lab Number** : 05901363 **Diagnosed** : 20 Jul 2023  
**Unique Number** : 10562719 **Diagnostician** : Don Baldrige  
**Test Package** : IND 2

**COMPRESSOR SERVICES**  
 5723 WEATHERSTONE WAY  
 JOHNSBURG, IL  
 US 60051  
 Contact: MICHAEL BRITT  
 mike@compressorservices.net  
 T: (847)497-9750  
 F: (847)497-9754

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)