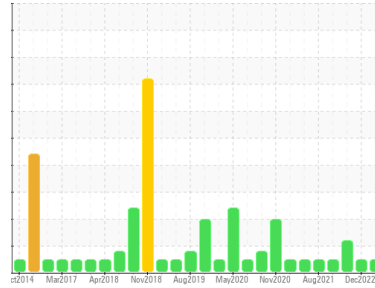




# OIL ANALYSIS REPORT

Sample Rating Trend



**NORMAL**



Area  
**DIAMOND BLUE 8K [OIL-40973]**  
 Machine Id  
**SULLAIR 200803060113 - BUZZI**  
 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>UCH05994479</b> | UCH05717480 | UCH05505335 |
| Sample Date        | Client Info |             |            | <b>13 Oct 2023</b> | 07 Dec 2022 | 14 Mar 2022 |
| Machine Age        | hrs         | Client Info |            | <b>97509</b>       | 92490       | 88251       |
| Oil Age            | hrs         | Client Info |            | <b>2206</b>        | 2772        | 4383        |
| Oil Changed        | Client Info |             |            | <b>Not Chngd</b>   | Not Chngd   | Not Chngd   |
| Sample Status      |             |             |            | <b>NORMAL</b>      | NORMAL      | ATTENTION   |

| WEAR METALS |     | method      | limit/base | current | history1 | history2 |
|-------------|-----|-------------|------------|---------|----------|----------|
| Iron        | ppm | ASTM D5185m | >50        | <1      | 1        | 0        |
| Chromium    | ppm | ASTM D5185m | >10        | <1      | 0        | 0        |
| Nickel      | ppm | ASTM D5185m |            | 0       | 0        | 0        |
| Titanium    | ppm | ASTM D5185m |            | <1      | 0        | 0        |
| Silver      | ppm | ASTM D5185m |            | 0       | 0        | 0        |
| Aluminum    | ppm | ASTM D5185m | >25        | 0       | 0        | 0        |
| Lead        | ppm | ASTM D5185m | >25        | <1      | 0        | 0        |
| Copper      | ppm | ASTM D5185m | >50        | 7       | 38       | 15       |
| Tin         | ppm | ASTM D5185m | >15        | <1      | 0        | 0        |
| Antimony    | ppm | ASTM D5185m |            | ---     | ---      | ---      |
| Vanadium    | ppm | ASTM D5185m |            | <1      | 0        | 0        |
| Cadmium     | ppm | ASTM D5185m |            | <1      | 0        | 0        |

| ADDITIVES  |     | method      | limit/base | current | history1 | history2 |
|------------|-----|-------------|------------|---------|----------|----------|
| Boron      | ppm | ASTM D5185m |            | 0       | 0        | 0        |
| Barium     | ppm | ASTM D5185m |            | 42      | 0        | 0        |
| Molybdenum | ppm | ASTM D5185m |            | <1      | 0        | 0        |
| Manganese  | ppm | ASTM D5185m |            | <1      | <1       | 0        |
| Magnesium  | ppm | ASTM D5185m |            | 0       | 0        | 0        |
| Calcium    | ppm | ASTM D5185m |            | 38      | 0        | 0        |
| Phosphorus | ppm | ASTM D5185m |            | 7       | 146      | 108      |
| Zinc       | ppm | ASTM D5185m |            | 2       | 0        | 0        |
| Sulfur     | ppm | ASTM D5185m |            | 156     | 105      | 228      |

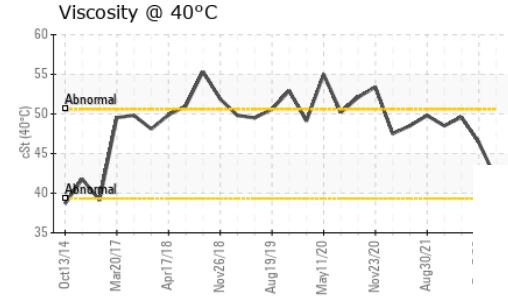
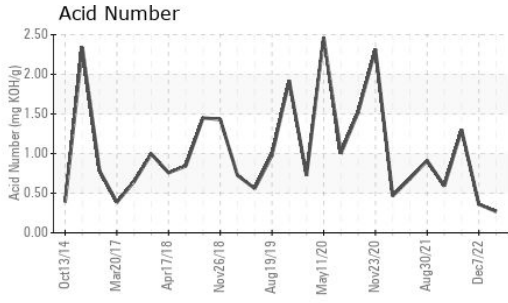
| CONTAMINANTS |     | method      | limit/base | current | history1 | history2 |
|--------------|-----|-------------|------------|---------|----------|----------|
| Silicon      | ppm | ASTM D5185m | >25        | <1      | 0        | 0        |
| Sodium       | ppm | ASTM D5185m |            | 53      | 10       | 16       |
| Potassium    | ppm | ASTM D5185m | >20        | 6       | 0        | 0        |

| FLUID DEGRADATION |          | method     | limit/base | current     | history1 | history2 |
|-------------------|----------|------------|------------|-------------|----------|----------|
| Acid Number (AN)  | mg KOH/g | ASTM D8045 |            | <b>0.27</b> | 0.36     | ▲ 1.30   |

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

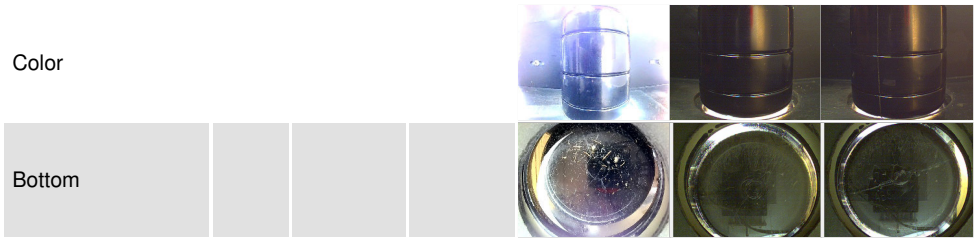


# OIL ANALYSIS REPORT

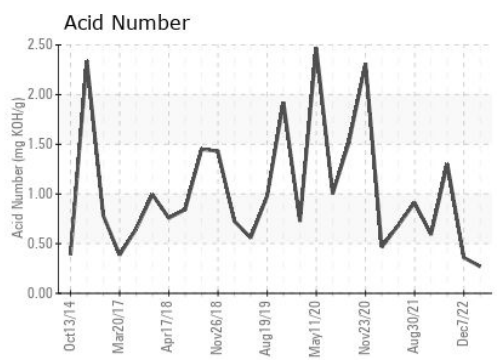
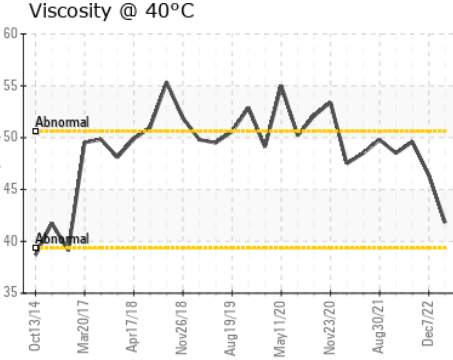
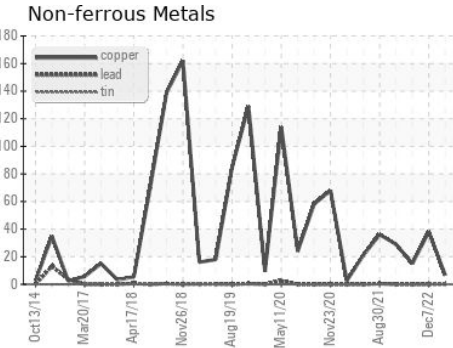
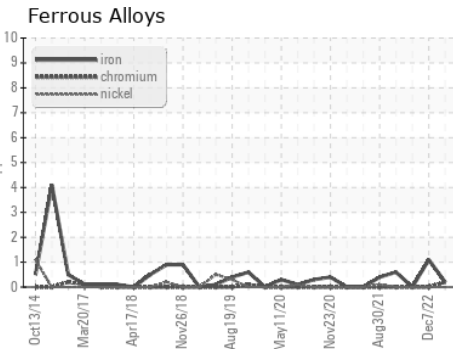


| FLUID PROPERTIES |     | method    | limit/base | current | history1 | history2 |
|------------------|-----|-----------|------------|---------|----------|----------|
| Visc @ 40°C      | cSt | ASTM D445 |            | 41.8    | 46.4     | 49.6     |

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



## GRAPHS



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : UCH05994479 **Received** : 31 Oct 2023  
**Lab Number** : 05994479 **Diagnosed** : 01 Nov 2023  
**Unique Number** : 10722839 **Diagnostician** : Don Baldrige  
**Test Package** : IND 2

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 rvonhatten@jhfc.com  
 T: (314)593-1267  
 F: (314)874-0965

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)