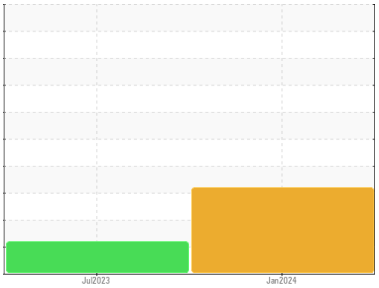
# PROBLEM SUMMARY

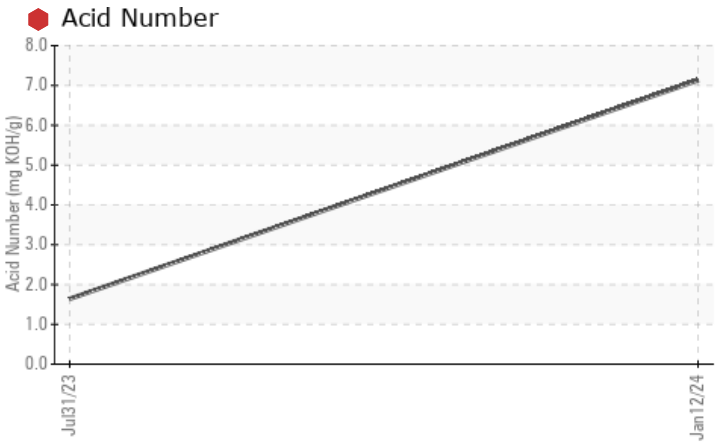
Area
**UNKNOWN**
Machine Id
**SULLAIR 201709200005 - VISTECH MFG SOLUTIONS**
Component
**Compressor**

**Sample Rating Trend**




**DEGRADATION**

## COMPONENT CONDITION SUMMARY




## RECOMMENDATION

Recommend drain oil if not already done and flush with cleaner before refilling with oil.

## PROBLEMATIC TEST RESULTS

| | | | | | | |
|---|---|---|---|---|---|---|
| Sample Status | | | | **SEVERE** | ATTENTION | --- |
| Acid Number (AN) | mg KOH/g | ASTM D8045 | | **7.13** | 1.64 | --- |

**Customer Id:** UCAIRSID
**Sample No.:** UCH06064414
**Lab Number:** 06064414
**Test Package:** IND 2

*To manage this report scan the QR code*

*To discuss the diagnosis or test data:*
Doug Bogart +1 (800)237-1369 x4016
dougb@wearcheckusa.com

*To change component or sample information:*
Customer Service +1 1-800-237-1369
customerservice@wearcheck.com

## RECOMMENDED ACTIONS

| Action | Status | Date | Done By | Description |
|---|---|---|---|---|
| Change Fluid | --- | --- | ? | Recommend drain oil if not already done and flush with cleaner before refilling with oil. |
| Flush System | --- | --- | ? | Recommend drain oil if not already done and flush with cleaner before refilling with oil. |

## HISTORICAL DIAGNOSIS

**31 Jul 2023 Diag: Jonathan Hester**

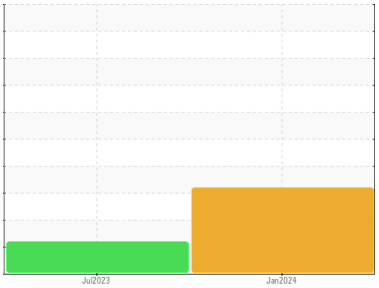
**DEGRADATION**

The oil is near the end of it`s useful service life, recommend schedule an oil change. Resample at the next service interval to monitor.All component wear rates are normal. There is no indication of any contamination in the oil. The AN level is at the top-end of the recommended limit.

**view report**

# OIL ANALYSIS REPORT

Sample Rating Trend




DEGRADATION

Area
**UNKNOWN**
Machine Id
**SULLAIR 201709200005 - VISTECH MFG SOLUTIONS**
Component
**Compressor**

## DIAGNOSIS

**Recommendation**
Recommend drain oil if not already done and flush with cleaner before refilling with oil.

**Wear**
All component wear rates are normal.

**Contamination**
There is no indication of any contamination in the oil.

**Fluid Condition**
The AN level is above the recommended limit. TAN level indicates possible presence of varnish. The oil is no longer serviceable.

| SAMPLE INFORMATION | | method | limit/base | current | history1 | history2 |
|---|---|---|---|---|---|---|
| Sample Number | | Client Info | | **UCH06064414** | UCH05966434 | --- |
| Sample Date | | Client Info | | **12 Jan 2024** | 31 Jul 2023 | --- |
| Machine Age | hrs | Client Info | | **44612** | 40768 | --- |
| Oil Age | hrs | Client Info | | **0** | 0 | --- |
| Oil Changed | | Client Info | | **N/A** | N/A | --- |
| Sample Status | | | | **SEVERE** | ATTENTION | --- |

| CONTAMINATION | | method | limit/base | current | history1 | history2 |
|---|---|---|---|---|---|---|
| Water | | WC Method | >0.1 | **NEG** | NEG | --- |

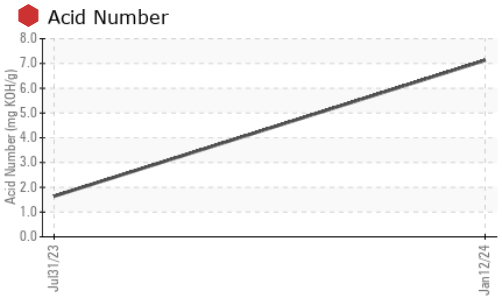
| WEAR METALS | | method | limit/base | current | history1 | history2 |
|---|---|---|---|---|---|---|
| Iron | ppm | ASTM D5185m | >50 | **<1** | <1 | --- |
| Chromium | ppm | ASTM D5185m | >10 | **0** | 0 | --- |
| Nickel | ppm | ASTM D5185m | | **0** | 0 | --- |
| Titanium | ppm | ASTM D5185m | | **0**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

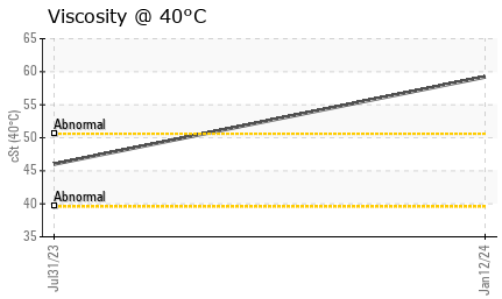
| ADDITIVES | | method | limit/base | current | history1 | history2 |
|---|---|---|---|---|---|---|
| Boron | ppm | ASTM D5185m | | **0** | 0 | --- |
| Barium | ppm | ASTM D5185m | | **345** | 132 | --- |
| Molybdenum | ppm | ASTM D5185m | | **0** | 0 | --- |
| Manganese | ppm | ASTM D5185m | | **0** | 0 | --- |
| Magnesium | ppm | ASTM D5185m | | **25** | <1 | --- |
| Calcium | ppm | ASTM D5185m | | **11** | 2 | --- |
| Phosphorus | ppm | ASTM D5185m | | **11** | 13 | --- |
| Zinc | ppm | ASTM D5185m | | **7** | 0 | --- |
| Sulfur | ppm | ASTM D5185m | | **684** | 84 | --- |

| CONTAMINANTS | | method | limit/base | current | history1 | history2 |
|---|---|---|---|---|---|---|
| Silicon | ppm | ASTM D5185m | >25 | **5** | 6 | --- |
| Sodium | ppm | ASTM D5185m | | **64** | 19 | --- |
| Potassium | ppm | ASTM D5185m | >20 | **11** | 3 | --- |

| FLUID DEGRADATION | | method | limit/base | current | history1 | history2 |
|---|---|---|---|---|---|---|
| Acid Number (AN) | mg KOH/g | ASTM D8045 | | **7.13** | ▲ 1.64 | --- |

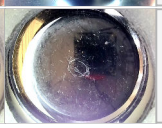
# OIL ANALYSIS REPORT



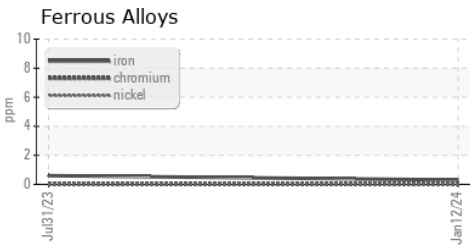



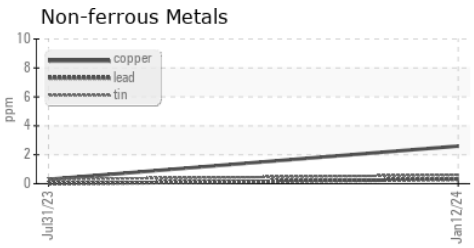

| VISUAL | | method | limit/base | current | history1 | history2 |
|---|---|---|---|---|---|---|
| White Metal | scalar | *Visual | NONE | **NONE** | NONE | --- |
| Yellow Metal | scalar | *Visual | NONE | **NONE** | NONE | --- |
| Precipitate | scalar | *Visual | NONE | **NONE** | NONE | --- |
| Silt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

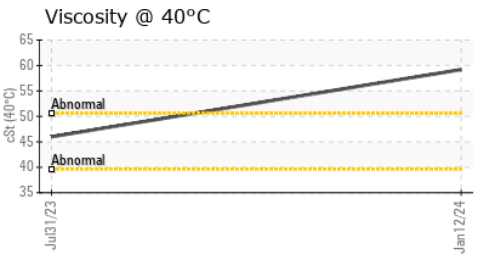
| FLUID PROPERTIES | | method | limit/base | current | history1 | history2 |
|---|---|---|---|---|---|---|
| Visc @ 40°C | cSt | ASTM D445 | | **59.2** | 46.0 | --- |

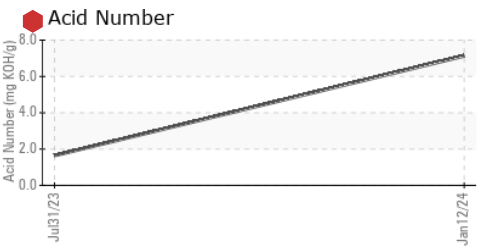
| SAMPLE IMAGES | method | limit/base | current | history1 | history2 |
|---|---|---|---|---|---|
| Color | | |  |  | *no image* |
| Bottom | | |  |  | *no image* |

## GRAPHS




Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513
**Sample No.** : UCH06064414
**Lab Number** : 06064414
**Unique Number** : 10835796
**Test Package** : IND 2

**Recieved** : 18 Jan 2024
**Diagnosed** : 24 Jan 2024
**Diagnostician** : Doug Bogart

*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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