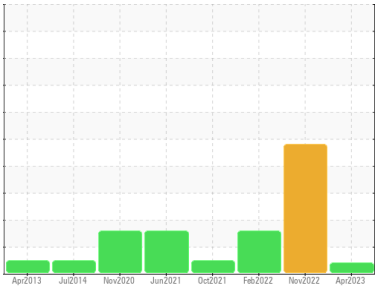
# PROBLEM SUMMARY

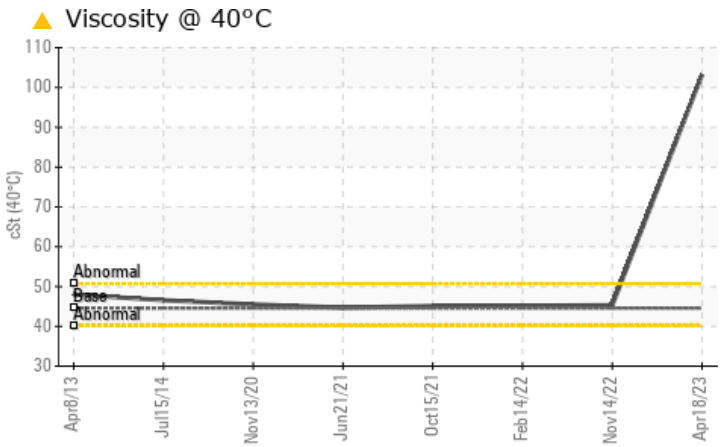
Area
## LTL SILVER P10
Machine Id
## INGERSOLL RAND SSR-EP50SE G6831U98108 - ALL CLAD
Component
**Compressor**

**Sample Rating Trend**




**VISCOSITY**

## COMPONENT CONDITION SUMMARY




## RECOMMENDATION

No corrective action is recommended at this time.
Resample at the next service interval to monitor.

## PROBLEMATIC TEST RESULTS

| Sample Status | | | | ATTENTION | SEVERE | ABNORMAL |
|---|---|---|---|---|---|---|
| Visc @ 40°C | cSt | ASTM D445 | 44.56 | ▲ **103.2** | 45.3 | 45.2 |

**Customer Id:** UCROCVER
**Sample No.:** UCH05824168
**Lab Number:** 05824168
**Test Package:** IND 2

*To manage this report scan the QR code*

*To discuss the diagnosis or test data:*
Jonathan Hester +1 919-379-4092 x4092
jhester@wearcheckusa.com

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

## RECOMMENDED ACTIONS

*There are no recommended actions for this sample.*

## HISTORICAL DIAGNOSIS

**14 Nov 2022 Diag: Jonathan Hester**

WATER

Resample at the next service interval to monitor. Please note that this is a corrected copy for laboratory data updates.All component wear rates are normal. There is no indication of any contamination in the oil. Chlorine 0.0 ppm. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

view report

**14 Feb 2022 Diag: Doug Bogart**

WATER

We advise that you follow the  water drain-off procedure for this component. We recommend an early resample to monitor this condition. Please note that this is a corrected copy for laboratory data updates.All component wear rates are normal. There is a light concentration of water present in the oil. Moderate concentration of visible dirt/debris present in the oil. Chlorine measured at 15.7 ppm. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

view report

**15 Oct 2021 Diag: Jonathan Hester**

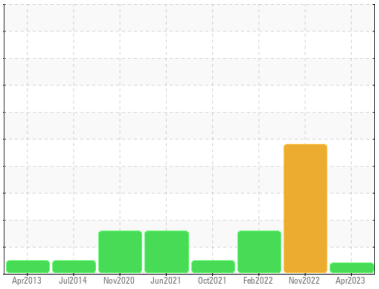
NORMAL

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 acceptable for this fluid. The condition of the oil is suitable for further service. Chlorine 0.2 ppm.

view report

# OIL ANALYSIS REPORT

Sample Rating Trend




**VISCOSITY**

Area
## LTL SILVER P10
Machine Id
## INGERSOLL RAND SSR-EP50SE G6831U98108 - ALL CLAD
Component
**Compressor**

## DIAGNOSIS

**Recommendation**
No corrective action is recommended at this time. 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. Chlorine 107 ppm.

**Fluid Condition**
The oil viscosity is higher than normal. Confirm oil type. The AN level is acceptable for this fluid.

| SAMPLE INFORMATION | | method | limit/base | current | history1 | history2 |
|---|---|---|---|---|---|---|
| Sample Number | | Client Info | | **UCH05824168** | UCH05699078 | UCH05478017 |
| Sample Date | | Client Info | | **18 Apr 2023** | 14 Nov 2022 | 14 Feb 2022 |
| Machine Age | hrs | Client Info | | **23850** | 23631 | 23089 |
| Oil Age | hrs | Client Info | | **219** | 1780 | 1238 |
| Oil Changed | | Client Info | | **N/A** | N/A | N/A |
| Sample Status | | | | **ATTENTION** | SEVERE | ABNORMAL |

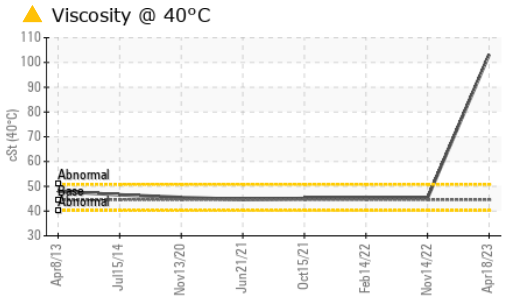
| WEAR METALS | | method | limit/base | current | history1 | history2 |
|---|---|---|---|---|---|---|
| Iron | ppm | ASTM D5185m | >50 | **0** | <1 | <1 |
| Chromium | ppm | ASTM D5185m | >10 | **0** | 0 | 0 |
| Nickel | ppm | ASTM D5185m | | **0** | 0 | 0 |
| Titanium | ppm | ASTM D5185m | | **0** |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

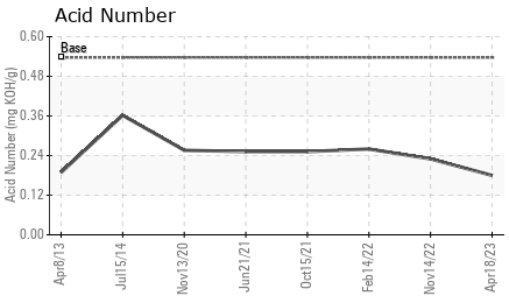
| ADDITIVES | | method | limit/base | current | history1 | history2 |
|---|---|---|---|---|---|---|
| Boron | ppm | ASTM D5185m | 0.1 | **0** | 0 | <1 |
| Barium | ppm | ASTM D5185m | 0.8 | **0** | 0 | 0 |
| Molybdenum | ppm | ASTM D5185m | 0 | **0** | 0 | <1 |
| Manganese | ppm | ASTM D5185m | 0.9 | **<1** | 0 | 0 |
| Magnesium | ppm | ASTM D5185m | 0 | **<1** | 0 | 1 |
| Calcium | ppm | ASTM D5185m | 0 | **0** | 0 | 3 |
| Phosphorus | ppm | ASTM D5185m | 409 | **48** | 212 | 290 |
| Zinc | ppm | ASTM D5185m | 0 | **28** | 19 | 20 |
| Sulfur | ppm | ASTM D5185m | 1290 | **240** | 136 | 395 |

| CONTAMINANTS | | method | limit/base | current | history1 | history2 |
|---|---|---|---|---|---|---|
| Silicon | ppm | ASTM D5185m | >25 | **0** | 0 | 1 |
| Sodium | ppm | ASTM D5185m | | **3** | 0 | 0 |
| Potassium | ppm | ASTM D5185m | >20 | **0** | 0 | <1 |
| Chlorine Content | ppm | ASTM D5185m | | **107** | 0.000 | 15.7 |

| FLUID DEGRADATION | | method | limit/base | current | history1 | history2 |
|---|---|---|---|---|---|---|
| Acid Number (AN) | mg KOH/g | ASTM D8045 | 0.537 | **0.18** | 0.23 | 0.26 |

# OIL ANALYSIS REPORT

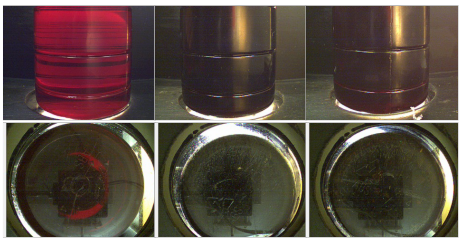


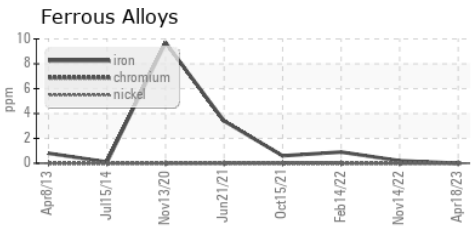

| VISUAL | | method | limit/base | current | history1 | history2 |
|---|---|---|---|---|---|---|
| White Metal | scalar | *Visual | NONE | **NONE** | NONE | NONE |
| Yellow Metal | scalar | *Visual | NONE | **NONE** | NONE | NONE |
| Precipitate | scalar | *Visual | NONE | **NONE** | NONE | NONE |
| Silt | scalar | *Visual | NONE | **NONE** | NONE | NONE |
| Debris | scalar | *Visual | NONE | **NONE** | NONE | MODER |
| Sand/Dirt | scalar | *Visual | NONE | **NONE** | NONE | NONE |
| Appearance | scalar | *Visual | NORML | **NORML** | NORML | NORML |
| Odor | scalar | *Visual | NORML | **NORML** | NORML | NORML |
| Emulsified Water | scalar | *Visual | >0.1 | **NEG** | 0.2% | 0.2% |
| Free Water | scalar | *Visual | | **NEG** | 1.0 | NEG |

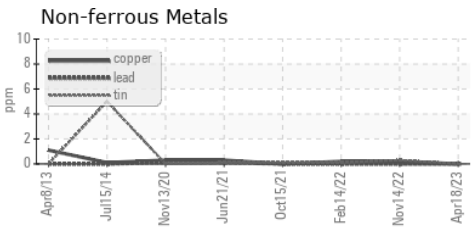
| FLUID PROPERTIES | | method | limit/base | current | history1 | history2 |
|---|---|---|---|---|---|---|
| Visc @ 40°C | cSt | ASTM D445 | 44.56 | ▲ **103.2** | 45.3 | 45.2 |

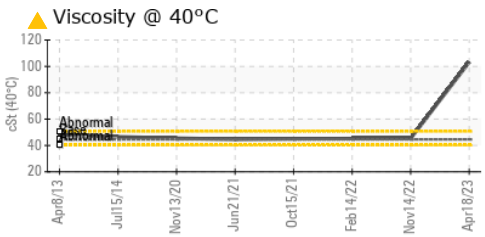
| SAMPLE IMAGES | method | limit/base | current | history1 | history2 |
|---|---|---|---|---|---|
| Color | | | | | |
| Bottom | | | | | |

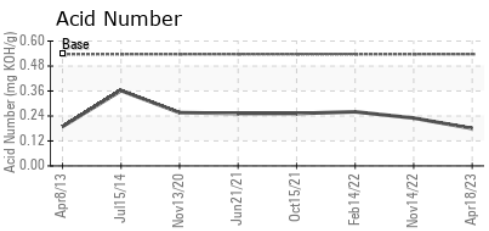


## GRAPHS




Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513
**Sample No.** : UCH05824168 **Received** : 19 Apr 2023
**Lab Number** : 05824168 **Diagnosed** : 25 Apr 2023
**Unique Number** : 10432251 **Diagnostician** : Jonathan Hester
**Test Package** : IND 2 ( Additional Tests: CHLORINEXRF )

*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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