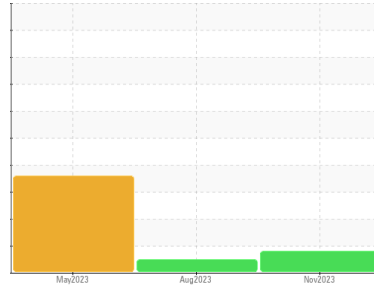




# PROBLEM SUMMARY

Area  
**ULTRA COOLANT [1397865]**  
 Machine Id  
**INGERSOLL RAND MOX1005726 - GRAND RIVER ASEPTIC**  
 Component  
**Compressor**

Sample Rating Trend

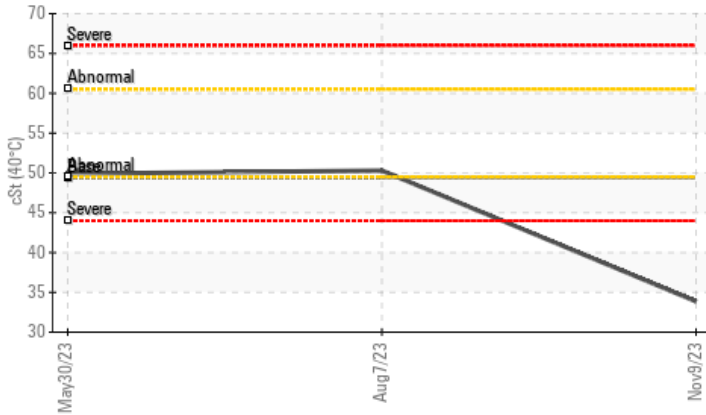


## VISCOSITY



### COMPONENT CONDITION SUMMARY

▲ Viscosity @ 40°C



### RECOMMENDATION

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

### PROBLEMATIC TEST RESULTS

Sample Status				ATTENTION	NORMAL	ABNORMAL
Barium	ppm	ASTM D5185m	500	▲ 43	966	967
Visc @ 40°C	cSt	ASTM D445	49.4	▲ 33.86	50.3	49.9

Customer Id: UCAIRBYR  
 Sample No.: UCH06029485  
 Lab Number: 06029485  
 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](mailto:jhester@wearcheckusa.com)

To change component or sample information:  
 Customer Service +1 1-800-237-1369  
[customerservice@wearcheck.com](mailto:customerservice@wearcheck.com)

## RECOMMENDED ACTIONS

*There are no recommended actions for this sample.*

## HISTORICAL DIAGNOSIS

### 07 Aug 2023 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.

view report



### 30 May 2023 Diag: Doug Bogart

DIRT



The oil is near the end of its useful service life, recommend schedule an oil change. Resample at the next service interval to monitor. The lead level is abnormal. All other component wear rates are normal. Elemental level of silicon (Si) above normal indicating ingress of seal material. The AN level is approaching the top-end of the recommended limit.

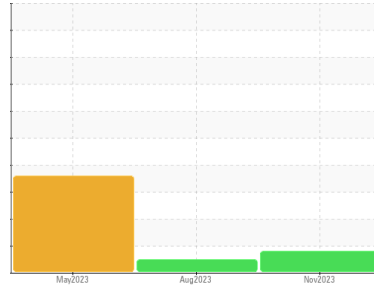
view report





# OIL ANALYSIS REPORT

Sample Rating Trend



## VISCOSITY



Area  
**ULTRA COOLANT [1397865]**  
 Machine Id  
**INGERSOLL RAND MOX1005726 - GRAND RIVER ASEPTIC**  
 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.

#### ▲ Fluid Condition

The oil viscosity is lower than normal. Additive levels indicate the addition of a different brand, or type of oil. Confirm oil type. The AN level is acceptable for this fluid.

### SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		<b>UCH06029485</b>	UCH05929740	UCH05868013
Sample Date	Client Info		<b>09 Nov 2023</b>	07 Aug 2023	30 May 2023
Machine Age	hrs	Client Info	<b>5909</b>	5757	4882
Oil Age	hrs	Client Info	<b>152</b>	0	4882
Oil Changed	Client Info		<b>Not Changed</b>	Changed	Not Changed
Sample Status			<b>ATTENTION</b>	NORMAL	ABNORMAL

### CONTAMINATION

	method	limit/base	current	history1	history2
Water	WC Method	>0.1	<b>NEG</b>	NEG	NEG

### WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >50	<b>0</b>	<1	<1
Chromium	ppm	ASTM D5185m >10	<b>0</b>	0	0
Nickel	ppm	ASTM D5185m	<b>0</b>	2	2
Titanium	ppm	ASTM D5185m	<b>0</b>	0	0
Silver	ppm	ASTM D5185m	<b>0</b>	0	<1
Aluminum	ppm	ASTM D5185m >25	<b>0</b>	0	0
Lead	ppm	ASTM D5185m >25	<b>0</b>	20	▲ 29
Copper	ppm	ASTM D5185m >50	<b>&lt;1</b>	3	2
Tin	ppm	ASTM D5185m >15	<b>0</b>	<1	<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 0	<b>0</b>	0	0
Barium	ppm	ASTM D5185m 500	▲ <b>43</b>	966	967
Molybdenum	ppm	ASTM D5185m 0	<b>0</b>	0	0
Manganese	ppm	ASTM D5185m	<b>&lt;1</b>	0	0
Magnesium	ppm	ASTM D5185m 0	<b>0</b>	<1	<1
Calcium	ppm	ASTM D5185m 0	<b>0</b>	2	<1
Phosphorus	ppm	ASTM D5185m 20	<b>150</b>	2	5
Zinc	ppm	ASTM D5185m 0	<b>0</b>	0	<1
Sulfur	ppm	ASTM D5185m 200	<b>68</b>	372	345

### CONTAMINANTS

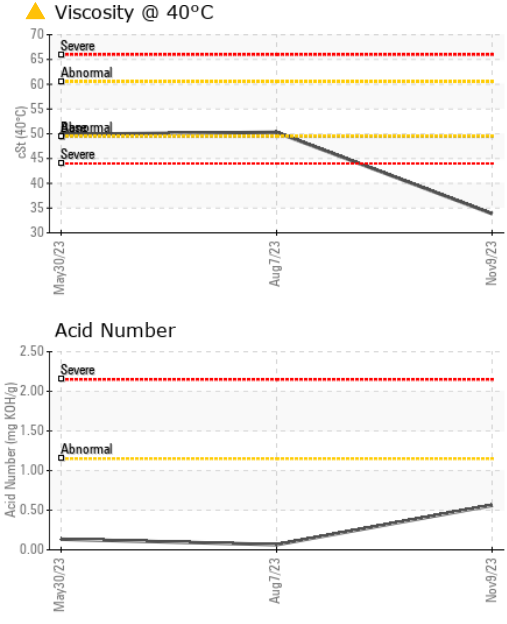
	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >25	<b>14</b>	3	▲ 63
Sodium	ppm	ASTM D5185m	<b>0</b>	3	1
Potassium	ppm	ASTM D5185m >20	<b>0</b>	<1	1

### FLUID DEGRADATION

	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	<b>0.56</b>	0.065	▲ 0.134



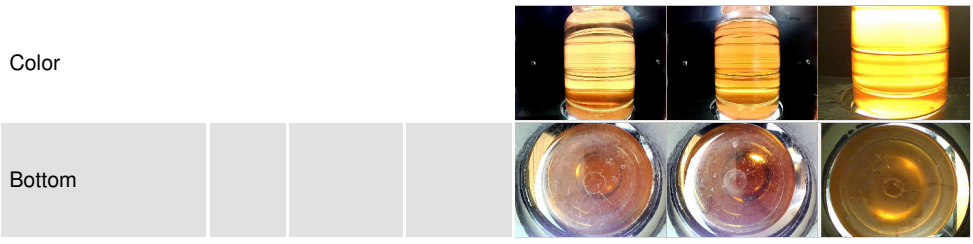
# OIL ANALYSIS REPORT



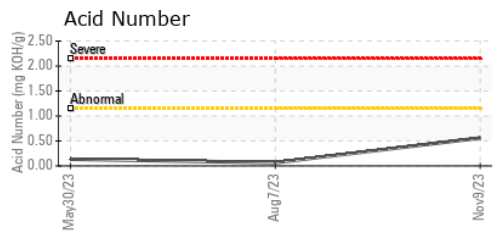
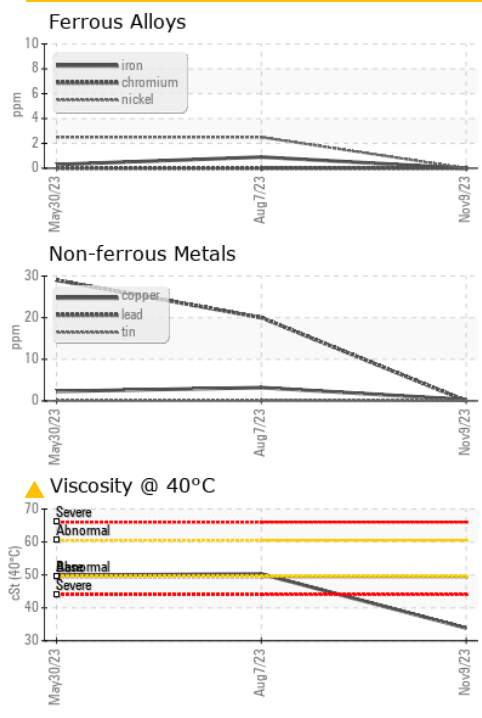
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance	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	49.4 ▲ <b>33.86</b>	50.3	49.9

SAMPLE IMAGES	method	limit/base	current	history1	history2
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## GRAPHS



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : UCH06029485 **Received** : 08 Dec 2023  
**Lab Number** : **06029485** **Diagnosed** : 19 Dec 2023  
**Unique Number** : 10779276 **Diagnostician** : Jonathan Hester  
**Test Package** : IND 2

**AIR TECHNOLOGIES INC (GR)**  
 160 84TH STREET SW SUITE 1  
 BYRON CENTER, MI  
 US 49315  
 Contact: STEPHANIE CLAYPOOL  
 stephanie.claypool@aircompressors.com

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)