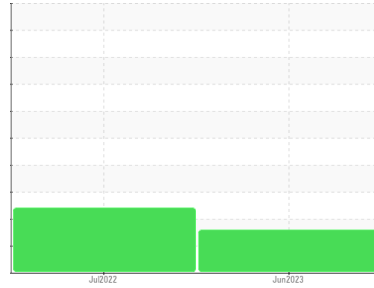




# PROBLEM SUMMARY

Sample Rating Trend



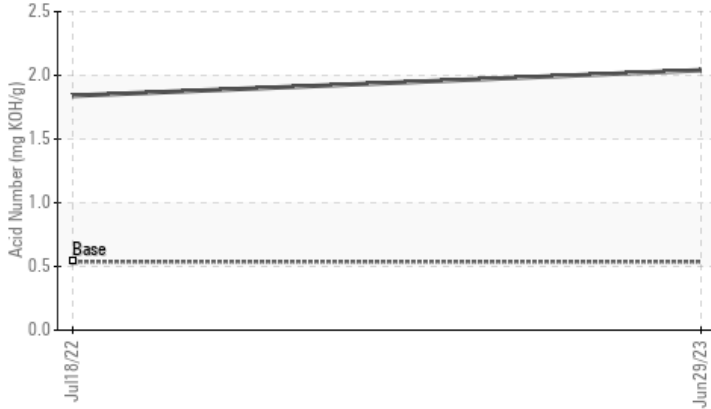
DEGRADATION



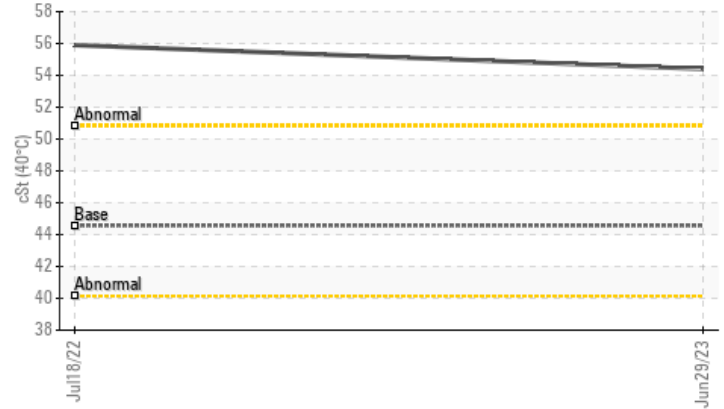
Area  
**PLUS 10 [1387209]**  
 Machine Id  
**ATLAS COPCO AII471-984 - APTIV VIENNA**  
 Component  
**Compressor**

## COMPONENT CONDITION SUMMARY

▲ Acid Number



▲ Viscosity @ 40°C



## RECOMMENDATION

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

## PROBLEMATIC TEST RESULTS

Sample Status				<b>ABNORMAL</b>	ABNORMAL	---
Acid Number (AN)	mg KOH/g	ASTM D8045	0.537	▲ <b>2.04</b>	▲ 1.84	---
Visc @ 40°C	cSt	ASTM D445	44.56	▲ <b>54.4</b>	▲ 55.9	---

Customer Id: UCAIRCLE  
 Sample No.: UCH05904472  
 Lab Number: 05904472  
 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](mailto:dougb@wearcheckusa.com)

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

## RECOMMENDED ACTIONS

Action	Status	Date	Done By	Description
Change Fluid	---	---	?	Oil and filter change at the time of sampling has been noted.
Change Filter	---	---	?	Oil and filter change at the time of sampling has been noted.

## HISTORICAL DIAGNOSIS

18 Jul 2022 Diag: Doug Bogart

### DEGRADATION



The oil is near the end of its 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 oil viscosity is higher than normal. The AN level is at the top-end of the recommended limit.

view report



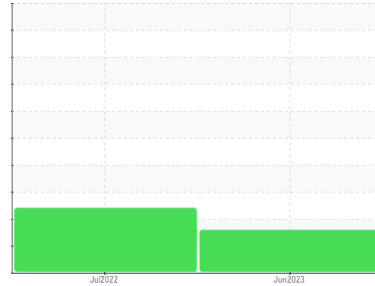


# OIL ANALYSIS REPORT

Sample Rating Trend

DEGRADATION

Area  
**PLUS 10 [1387209]**  
 Machine Id  
**ATLAS COPCO AII471-984 - APTIV VIENNA**  
 Component  
**Compressor**



## 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

There is no indication of any contamination in the oil.

### ▲ Fluid Condition

The oil viscosity is higher than normal. The AN level is at the top-end of the recommended limit.

## SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		<b>UCH05904472</b>	UCH05611358	---
Sample Date	Client Info		<b>29 Jun 2023</b>	18 Jul 2022	---
Machine Age	hrs	Client Info	<b>137694</b>	129135	---
Oil Age	hrs	Client Info	<b>8000</b>	7998	---
Oil Changed	Client Info		<b>Changed</b>	N/A	---
Sample Status			<b>ABNORMAL</b>	ABNORMAL	---

## WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >50	<b>&lt;1</b>	0	---
Chromium	ppm	ASTM D5185m >5	<b>0</b>	0	---
Nickel	ppm	ASTM D5185m	<b>0</b>	0	---
Titanium	ppm	ASTM D5185m	<b>0</b>	0	---
Silver	ppm	ASTM D5185m	<b>0</b>	0	---
Aluminum	ppm	ASTM D5185m >15	<b>0</b>	0	---
Lead	ppm	ASTM D5185m >65	<b>&lt;1</b>	0	---
Copper	ppm	ASTM D5185m >65	<b>&lt;1</b>	<1	---
Tin	ppm	ASTM D5185m >10	<b>0</b>	0	---
Vanadium	ppm	ASTM D5185m	<b>0</b>	0	---
Cadmium	ppm	ASTM D5185m	<b>0</b>	0	---

## ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m 0.1	<b>0</b>	<1	---
Barium	ppm	ASTM D5185m 0.8	<b>2</b>	0	---
Molybdenum	ppm	ASTM D5185m 0	<b>0</b>	0	---
Manganese	ppm	ASTM D5185m 0.9	<b>0</b>	0	---
Magnesium	ppm	ASTM D5185m 0	<b>&lt;1</b>	<1	---
Calcium	ppm	ASTM D5185m 0	<b>0</b>	0	---
Phosphorus	ppm	ASTM D5185m 409	<b>279</b>	▲ 3	---
Zinc	ppm	ASTM D5185m 0	<b>7</b>	0	---
Sulfur	ppm	ASTM D5185m 1290	<b>117</b>	▲ 0	---

## CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >35	<b>0</b>	0	---
Sodium	ppm	ASTM D5185m	<b>0</b>	<1	---
Potassium	ppm	ASTM D5185m >20	<b>&lt;1</b>	1	---

## FLUID DEGRADATION

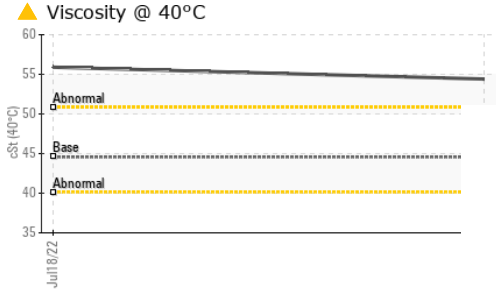
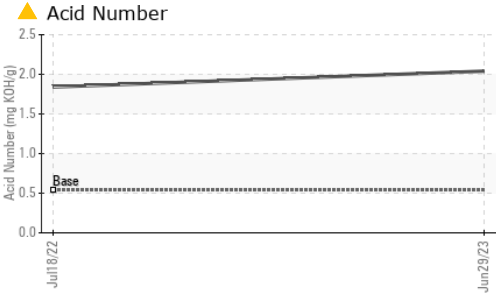
	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045 0.537	▲ <b>2.04</b>	▲ 1.84	---

## VISUAL

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



# OIL ANALYSIS REPORT



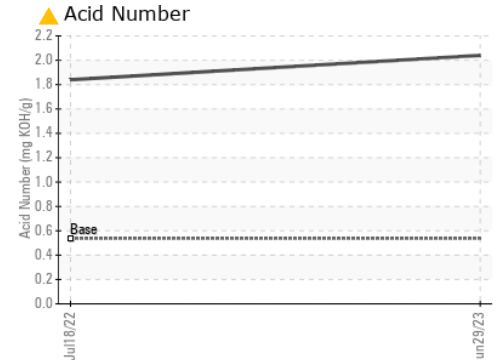
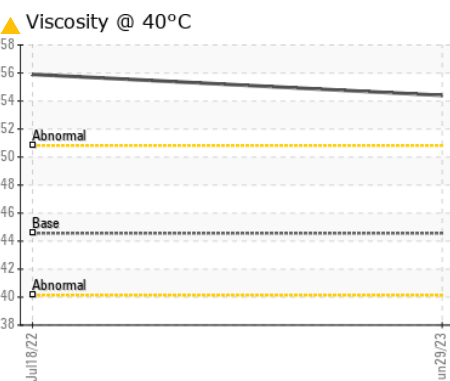
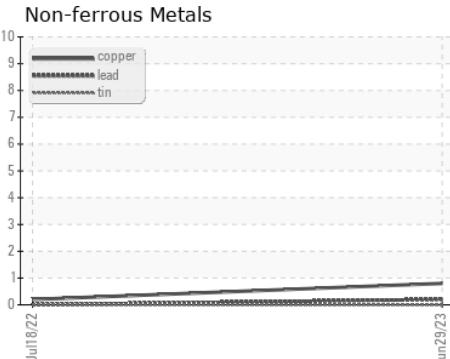
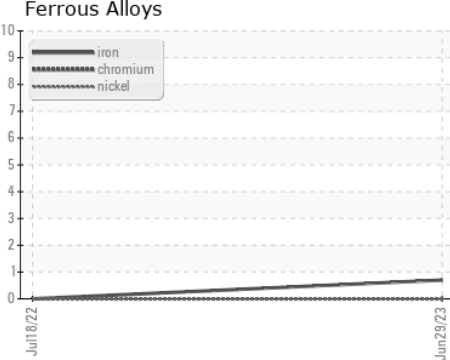
FLUID PROPERTIES	method	limit/base	current	history1	history2
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Visc @ 40°C	cSt	ASTM D445	44.56	▲ 54.4	▲ 55.9	---
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SAMPLE IMAGES	method	limit/base	current	history1	history2
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Color						no image
Bottom						no image

## GRAPHS



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : UCH05904472    **Received** : 21 Jul 2023  
**Lab Number** : 05904472    **Diagnosed** : 24 Jul 2023  
**Unique Number** : 10565828    **Diagnostician** : Doug Bogart  
**Test Package** : IND 2

**AIR TECHNOLOGIES INC (CLE)**  
 6500 DAVIS INDUSTRIAL PARKWAY  
 CLEVELAND, OH  
 US 44139  
 Contact: DERRICK PAES  
 DPAES@AIRCOMPRESSORS.COM  
 T: (440)349-3900  
 F: (440)349-0608

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)