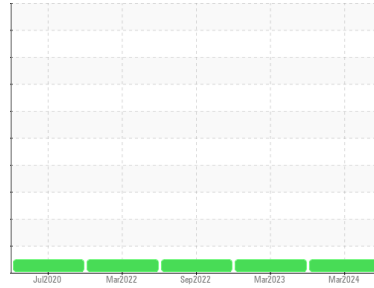




# OIL ANALYSIS REPORT

Sample Rating Trend

**NORMAL**



Area  
**HC-SYN**  
 Machine Id  
**POLAR AIR 55200-F**  
 Component  
**Compressor**  
 Fluid  
**{not provided} (--- GAL)**

## 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>UAC06124354</b>	UCH05825066	UCH05657477
Sample Date	Client Info		<b>08 Mar 2024</b>	24 Mar 2023	26 Sep 2022
Machine Age	hrs	Client Info	<b>5066</b>	3974	3423
Oil Age	hrs	Client Info	<b>650</b>	0	1800
Oil Changed	Client Info		<b>Changed</b>	Changed	Changed
Sample Status			<b>NORMAL</b>	NORMAL	NORMAL

## 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	9
Chromium	ppm	ASTM D5185m >10	<b>0</b>	0	<1
Nickel	ppm	ASTM D5185m	<b>0</b>	0	0
Titanium	ppm	ASTM D5185m	<b>0</b>	0	<1
Silver	ppm	ASTM D5185m	<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m >25	<b>0</b>	0	<1
Lead	ppm	ASTM D5185m >25	<b>0</b>	0	<1
Copper	ppm	ASTM D5185m >50	<b>0</b>	<1	8
Tin	ppm	ASTM D5185m >15	<b>0</b>	0	<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	<b>0</b>	0	0
Barium	ppm	ASTM D5185m	<b>10</b>	0	0
Molybdenum	ppm	ASTM D5185m	<b>0</b>	0	0
Manganese	ppm	ASTM D5185m	<b>0</b>	0	3
Magnesium	ppm	ASTM D5185m	<b>0</b>	0	1
Calcium	ppm	ASTM D5185m	<b>0</b>	0	12
Phosphorus	ppm	ASTM D5185m	<b>396</b>	415	164
Zinc	ppm	ASTM D5185m	<b>0</b>	0	18
Sulfur	ppm	ASTM D5185m	<b>48</b>	133	1126

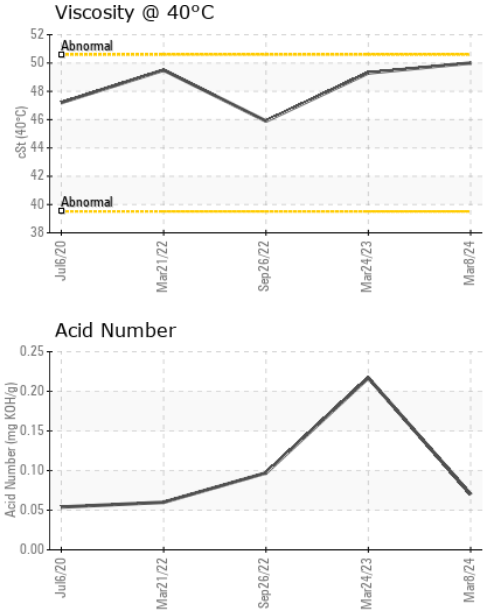
## CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >25	<b>&lt;1</b>	1	3
Sodium	ppm	ASTM D5185m	<b>0</b>	0	7
Potassium	ppm	ASTM D5185m >20	<b>0</b>	<1	4

## FLUID DEGRADATION

	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	<b>0.07</b>	0.217	0.097

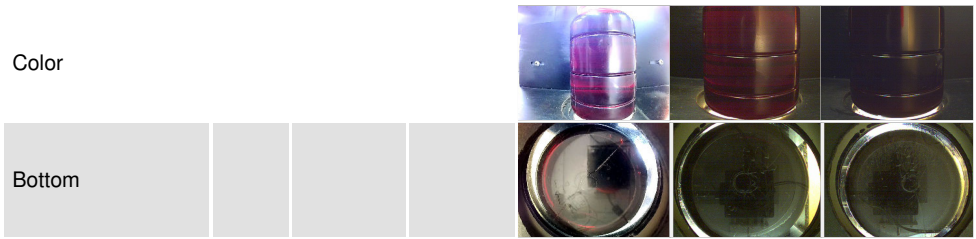
# OIL ANALYSIS REPORT



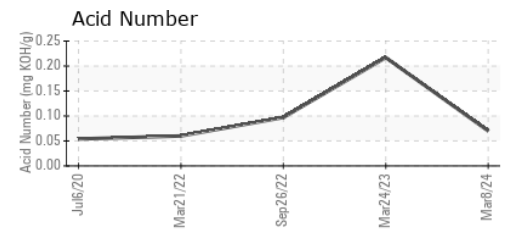
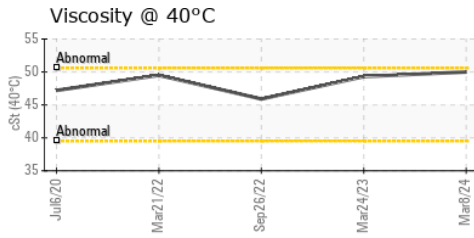
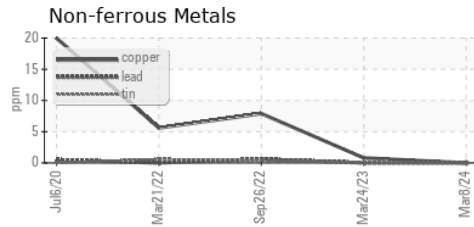
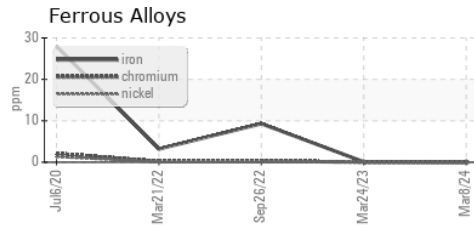
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	MODER
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance	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	<b>50.0</b>	49.3	45.9

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



## GRAPHS



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : UAC06124354 **Received** : 20 Mar 2024  
**Lab Number** : **06124354** **Tested** : 21 Mar 2024  
**Unique Number** : 10938505 **Diagnosed** : 23 Mar 2024 - Don Baldrige  
**Test Package** : IND 2

**ATLANTA AIR COMPRESSOR**  
 123 MERCHANTS PARK DR  
 HOSCHTON, GA  
 US 30548  
 Contact: Derik Bray  
 Derik@atlantaaircompressor.com  
 T: (470)252-9952  
 F: x:

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)