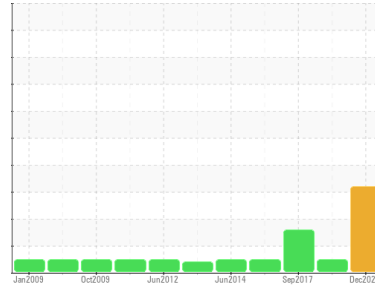


Area  
**PO-4010**  
 Machine Id  
**SULLAIR 003-123775 - SOUTHERN TOOL AND DIE**  
 Component  
**Compressor**



## DIAGNOSIS

### ▲ Recommendation

The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition.

### Wear

All component wear rates are normal.

### ▲ Contamination

There is a moderate concentration of water present in the oil. Excessive free water present.

### Fluid Condition

The AN level is acceptable for this fluid.

## SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		<b>UCP06058222</b>	UCP05911306	UCP04306527
Sample Date	Client Info		<b>06 Dec 2023</b>	27 Jul 2023	01 Sep 2017
Machine Age	hrs	Client Info	<b>44903</b>	43139	44983
Oil Age	hrs	Client Info	<b>5098</b>	5000	4300
Oil Changed	Client Info		<b>Changed</b>	Changed	N/A
Sample Status			<b>ATTENTION</b>	NORMAL	ATTENTION

## WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >50	<b>0</b>	<1	5
Chromium	ppm	ASTM D5185m >10	<b>0</b>	0	0
Nickel	ppm	ASTM D5185m	<b>0</b>	0	0
Titanium	ppm	ASTM D5185m	<b>0</b>	0	0
Silver	ppm	ASTM D5185m	<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m >25	<b>0</b>	<1	0
Lead	ppm	ASTM D5185m >25	<b>0</b>	0	<1
Copper	ppm	ASTM D5185m >50	<b>&lt;1</b>	<1	<1
Tin	ppm	ASTM D5185m >15	<b>0</b>	0	<1
Antimony	ppm	ASTM D5185m	<b>---</b>	---	0
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	5
Barium	ppm	ASTM D5185m 0.4	<b>0</b>	370	702
Molybdenum	ppm	ASTM D5185m 0.5	<b>0</b>	0	0
Manganese	ppm	ASTM D5185m 0.4	<b>0</b>	<1	<1
Magnesium	ppm	ASTM D5185m 0	<b>0</b>	<1	0
Calcium	ppm	ASTM D5185m 0.3	<b>0</b>	2	3
Phosphorus	ppm	ASTM D5185m 1376	<b>542</b>	25	0
Zinc	ppm	ASTM D5185m 0	<b>5</b>	9	0
Sulfur	ppm	ASTM D5185m 320	<b>899</b>	372	443

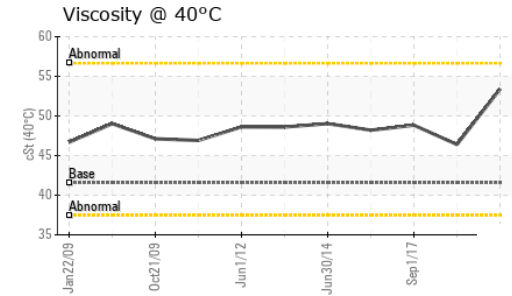
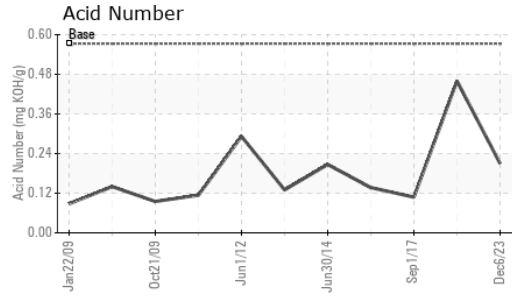
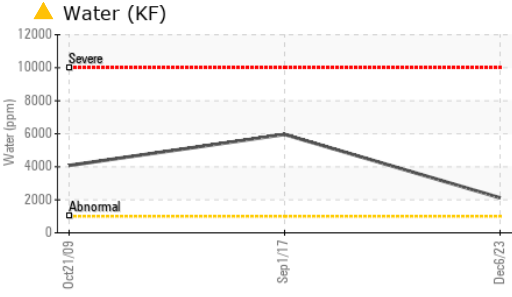
## CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >25	<b>0</b>	1	<1
Sodium	ppm	ASTM D5185m	<b>&lt;1</b>	60	39
Potassium	ppm	ASTM D5185m >20	<b>&lt;1</b>	4	3
Water	%	ASTM D6304 >0.1	<b>▲ 0.212</b>	---	▲ 0.596
ppm Water	ppm	ASTM D6304 >1000	<b>▲ 2120</b>	---	▲ 5960

## FLUID DEGRADATION

	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045 0.573	<b>0.21</b>	0.46	0.108

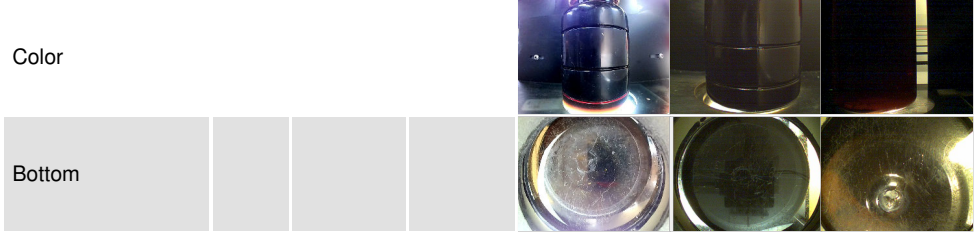
# OIL ANALYSIS REPORT



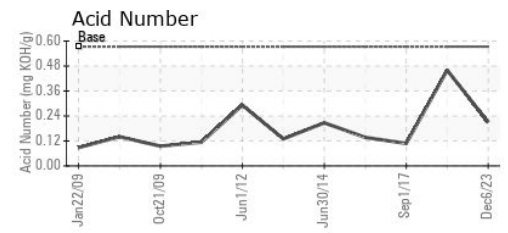
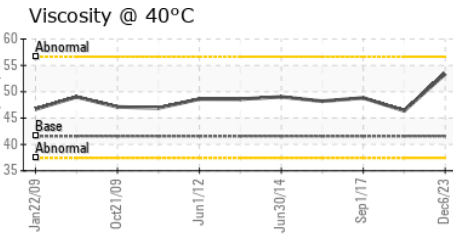
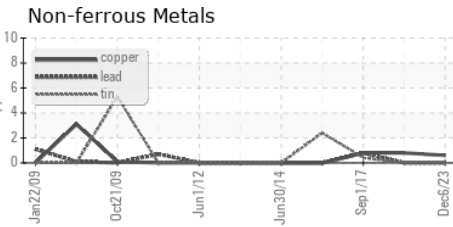
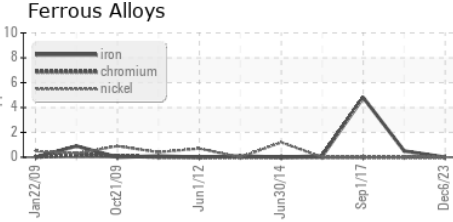
VISUAL	method	limit/base	current	history1	history2	
White Metal	scalar	*Visual	NONE	NONE	NONE	
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
Precipitate	scalar	*Visual	NONE	NONE	NONE	
Silt	scalar	*Visual	NONE	NONE	NONE	
Debris	scalar	*Visual	NONE	NONE	NONE	
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	
Appearance	scalar	*Visual	NORML	NORML	NORML	
Odor	scalar	*Visual	NORML	NORML	NORML	
Emulsified Water	scalar	*Visual	>0.1	▲ 0.2%	NEG	0.5%
Free Water	scalar	*Visual		▲ 10.0	NEG	NEG

FLUID PROPERTIES	method	limit/base	current	history1	history2	
Visc @ 40°C	cSt	ASTM D445	41.57	<b>53.4</b>	46.4	48.83

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



## GRAPHS



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : UCP06058222 **Recieved** : 11 Jan 2024  
**Lab Number** : 06058222 **Diagnosed** : 14 Jan 2024  
**Unique Number** : 10829604 **Diagnostician** : Don Baldrige  
**Test Package** : IND 2 ( Additional Tests: KF )

**PATTONS INC - RALEIGH**  
 2616 DISCOVERY DRIVE  
 RALEIGH, NC  
 US 27616  
 Contact: AARON MCCOY  
 aaron.mccoy@pattonsync.com  
 T: (919)872-6411  
 F: (919)876-1961

Certificate L2367  
 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)