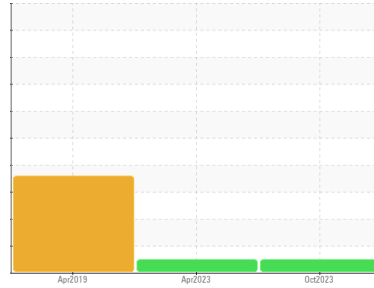




# OIL ANALYSIS REPORT

Sample Rating Trend

**NORMAL**



Area  
**SULLUBE [2954927]**  
 Machine Id  
**SULLAIR 2010004240004 - VIRGINIA STATE UNIVERSITY (S/N 201004240004)**  
 Component  
**Compressor**

## 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

Confirm oil type. 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>UCH05979863</b>	UCH05839326	UCH04703423
Sample Date	Client Info		<b>10 Oct 2023</b>	19 Apr 2023	15 Apr 2019
Machine Age	hrs	Client Info	<b>93664</b>	92028	71248
Oil Age	hrs	Client Info	<b>1700</b>	1	0
Oil Changed	Client Info		<b>Not Chngd</b>	Changed	Changed
Sample Status			<b>NORMAL</b>	NORMAL	SEVERE

## 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>	0	<1
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>	0	0
Lead	ppm	ASTM D5185m >25	<b>0</b>	0	1
Copper	ppm	ASTM D5185m >50	<b>3</b>	1	13
Tin	ppm	ASTM D5185m >15	<b>&lt;1</b>	0	<1
Antimony	ppm	ASTM D5185m	<b>---</b>	---	<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	5
Barium	ppm	ASTM D5185m 745	<b>0</b>	266	52
Molybdenum	ppm	ASTM D5185m 0.0	<b>0</b>	0	0
Manganese	ppm	ASTM D5185m	<b>0</b>	0	0
Magnesium	ppm	ASTM D5185m 0.0	<b>0</b>	<1	3
Calcium	ppm	ASTM D5185m 1	<b>0</b>	2	0
Phosphorus	ppm	ASTM D5185m 3	<b>0</b>	6	0
Zinc	ppm	ASTM D5185m 0.1	<b>0</b>	1	28
Sulfur	ppm	ASTM D5185m 240	<b>194</b>	334	292

## CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >25	<b>&lt;1</b>	2	1
Sodium	ppm	ASTM D5185m	<b>102</b>	73	294
Potassium	ppm	ASTM D5185m >20	<b>28</b>	23	48

## FLUID DEGRADATION

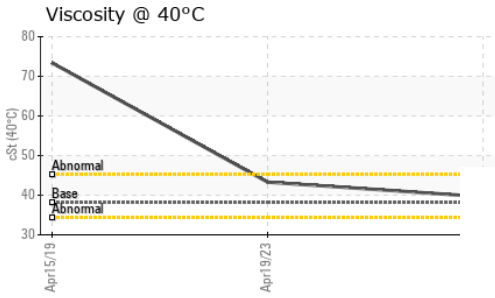
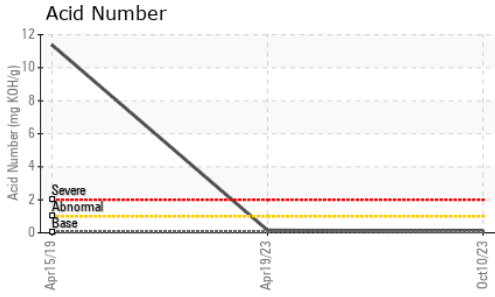
	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045 .06	<b>0.086</b>	0.153	11.38

## VISUAL

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

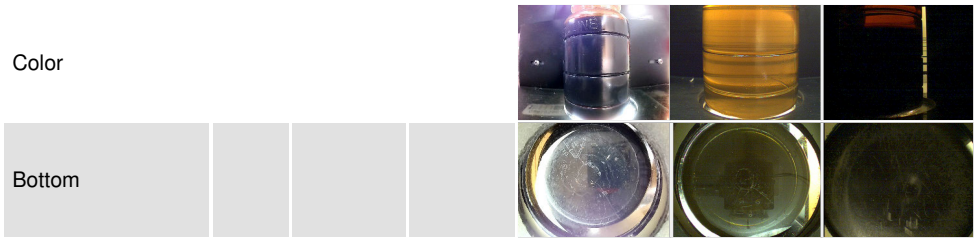


# OIL ANALYSIS REPORT

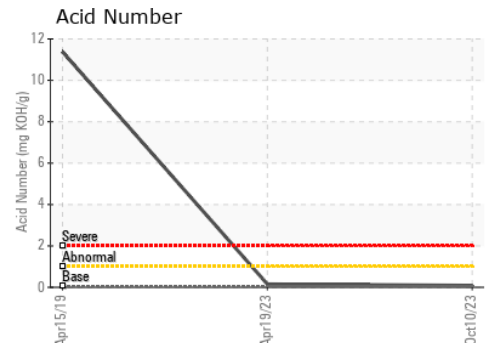
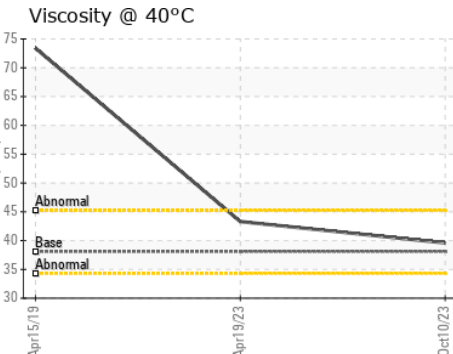
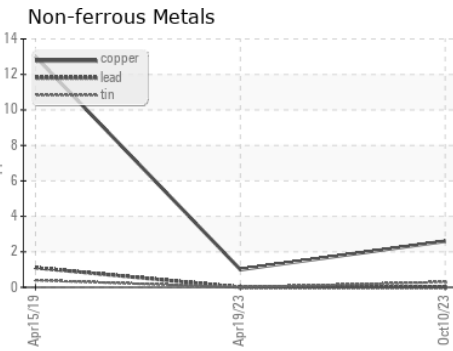
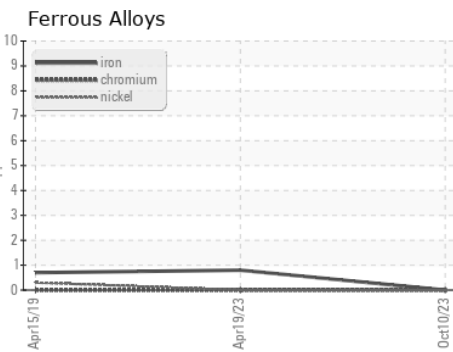


FLUID PROPERTIES	method	limit/base	current	history1	history2	
Visc @ 40°C	cSt	ASTM D445	38.1	<b>39.6</b>	43.3	▲ 73.4

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



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : UCH05979863 **Received** : 16 Oct 2023  
**Lab Number** : 05979863 **Diagnosed** : 18 Oct 2023  
**Unique Number** : 10697158 **Diagnostician** : Don Baldrige  
**Test Package** : IND 2 ( Additional Tests: KF )

**TATE ENGINEERING**  
 8131 VIRGINIA PINE CT  
 RICHMOND, VA  
 US 23237  
 Contact: JOE MYRICK  
 JOE.MYRICK@TATE.COM  
 T: (804)339-0007  
 F: (804)743-0415

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)