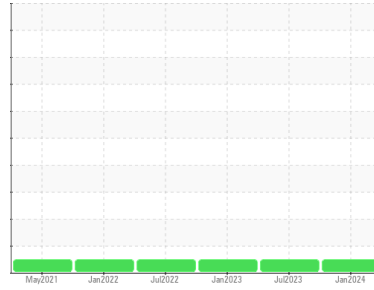




# OIL ANALYSIS REPORT

Sample Rating Trend

**NORMAL**



Area  
**IR ULTRA COOLANT**  
 Machine Id  
**INGERSOLL RAND CBV669013 - REPUBLIC SERVICES**  
 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

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>UCH06059395</b>	UCH05895164	UCH05733623
Sample Date	Client Info		<b>02 Jan 2024</b>	06 Jul 2023	05 Jan 2023
Machine Age	hrs	Client Info	<b>7585</b>	6507	5233
Oil Age	hrs	Client Info	<b>1078</b>	2	1151
Oil Changed	Client Info		<b>Not Changed</b>	Changed	Not 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>5</b>	0	5
Chromium	ppm	ASTM D5185m	>10	<b>0</b>	0	0
Nickel	ppm	ASTM D5185m		<b>2</b>	0	0
Titanium	ppm	ASTM D5185m		<b>0</b>	0	0
Silver	ppm	ASTM D5185m		<b>&lt;1</b>	0	0
Aluminum	ppm	ASTM D5185m	>25	<b>&lt;1</b>	<1	0
Lead	ppm	ASTM D5185m	>25	<b>&lt;1</b>	0	0
Copper	ppm	ASTM D5185m	>50	<b>1</b>	2	<1
Tin	ppm	ASTM D5185m	>15	<b>&lt;1</b>	<1	<1
Vanadium	ppm	ASTM D5185m		<b>&lt;1</b>	<1	0
Cadmium	ppm	ASTM D5185m		<b>0</b>	<1	0

## ADDITIVES

	method	limit/base	current	history1	history2	
Boron	ppm	ASTM D5185m	0	<b>0</b>	4	0
Barium	ppm	ASTM D5185m	500	<b>730</b>	923	661
Molybdenum	ppm	ASTM D5185m	0	<b>0</b>	3	0
Manganese	ppm	ASTM D5185m		<b>&lt;1</b>	<1	0
Magnesium	ppm	ASTM D5185m	0	<b>2</b>	23	<1
Calcium	ppm	ASTM D5185m	0	<b>2</b>	86	2
Phosphorus	ppm	ASTM D5185m	20	<b>2</b>	41	8
Zinc	ppm	ASTM D5185m	0	<b>0</b>	12	12
Sulfur	ppm	ASTM D5185m	200	<b>354</b>	467	425

## CONTAMINANTS

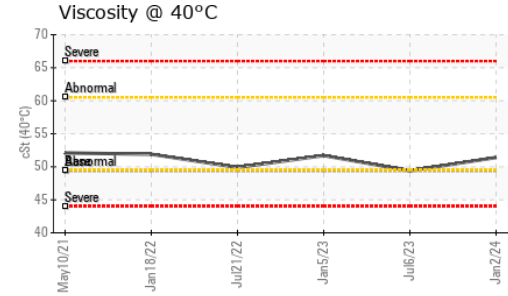
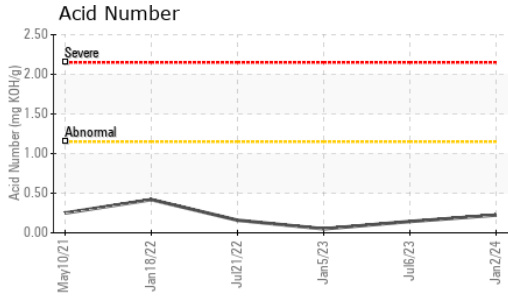
	method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185m	>25	<b>2</b>	12	3
Sodium	ppm	ASTM D5185m		<b>15</b>	1	33
Potassium	ppm	ASTM D5185m	>20	<b>&lt;1</b>	1	<1

## FLUID DEGRADATION

	method	limit/base	current	history1	history2	
Acid Number (AN)	mg KOH/g	ASTM D8045		<b>0.224</b>	0.143	0.05



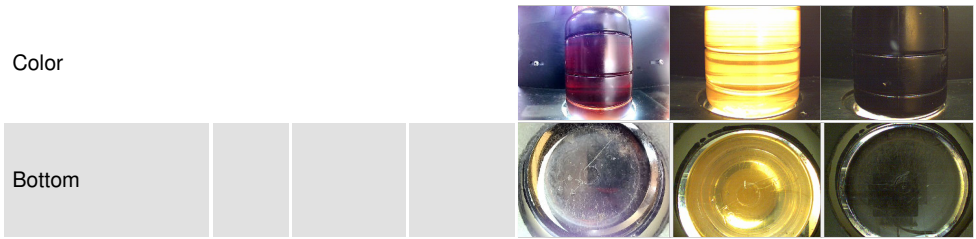
# OIL ANALYSIS REPORT



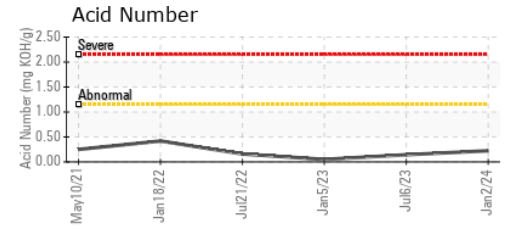
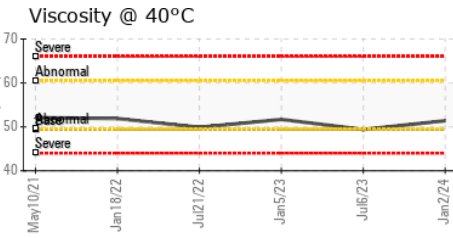
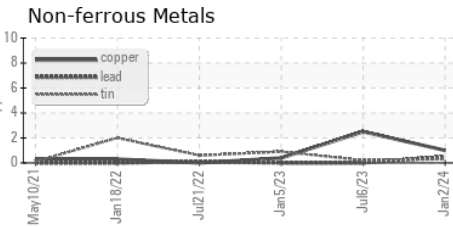
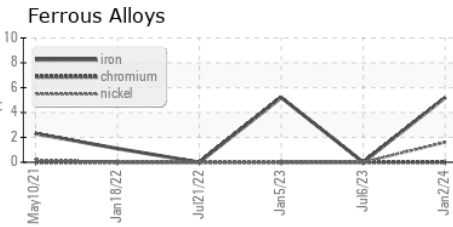
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	LIGHT
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance	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>51.4</b>	49.4	51.7

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



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : UCH06059395 **Recieved** : 12 Jan 2024  
**Lab Number** : 06059395 **Diagnosed** : 15 Jan 2024  
**Unique Number** : 10830777 **Diagnostician** : Don Baldrige  
**Test Package** : IND 2

**TATE ENGINEERING**  
 3921 Vero Road  
 BALTIMORE, MD  
 US 21227  
 Contact: JOSH PLITT  
 josh.plitt@tate.com  
 T: (443)992-4413  
 F:

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)