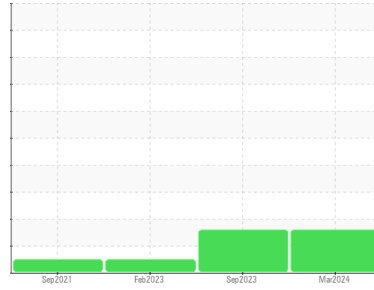




# OIL ANALYSIS REPORT

Sample Rating Trend



WATER



Area

## GCCS ULTRA

### INGERSOLL RAND F11052U94320 - BLISS

Machine Id

Component

Compressor

#### DIAGNOSIS

##### Recommendation

Oil and filter 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 high concentration of water present in the oil.

##### Fluid Condition

The AN level is acceptable for this fluid. The condition of the oil is acceptable for the time in service.

#### SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		<b>UCH06134158</b>	UCH05987449	UCH05788022
Sample Date	Client Info		<b>19 Mar 2024</b>	04 Sep 2023	28 Feb 2023
Machine Age	hrs	Client Info	<b>53259</b>	52073	0
Oil Age	hrs	Client Info	<b>8000</b>	2000	6000
Oil Changed	Client Info		<b>Changed</b>	Not Changd	Changed
Sample Status			<b>ATTENTION</b>	ATTENTION	NORMAL

#### WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >50	<b>1</b>	0	0
Chromium	ppm	ASTM D5185m >10	<b>&lt;1</b>	0	<1
Nickel	ppm	ASTM D5185m	<b>&lt;1</b>	<1	0
Titanium	ppm	ASTM D5185m	<b>&lt;1</b>	0	<1
Silver	ppm	ASTM D5185m	<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m >25	<b>2</b>	<1	<1
Lead	ppm	ASTM D5185m >25	<b>0</b>	0	<1
Copper	ppm	ASTM D5185m >50	<b>1</b>	0	0
Tin	ppm	ASTM D5185m >15	<b>1</b>	1	<1
Antimony	ppm	ASTM D5185m	<b>---</b>	---	---
Vanadium	ppm	ASTM D5185m	<b>&lt;1</b>	<1	0
Cadmium	ppm	ASTM D5185m	<b>&lt;1</b>	<1	<1

#### ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	<b>8</b>	0	<1
Barium	ppm	ASTM D5185m	<b>116</b>	192	329
Molybdenum	ppm	ASTM D5185m	<b>&lt;1</b>	0	<1
Manganese	ppm	ASTM D5185m	<b>&lt;1</b>	<1	2
Magnesium	ppm	ASTM D5185m	<b>3</b>	4	7
Calcium	ppm	ASTM D5185m	<b>14</b>	6	34
Phosphorus	ppm	ASTM D5185m	<b>32</b>	16	61
Zinc	ppm	ASTM D5185m	<b>&lt;1</b>	<1	15
Sulfur	ppm	ASTM D5185m	<b>489</b>	606	636

#### CONTAMINANTS

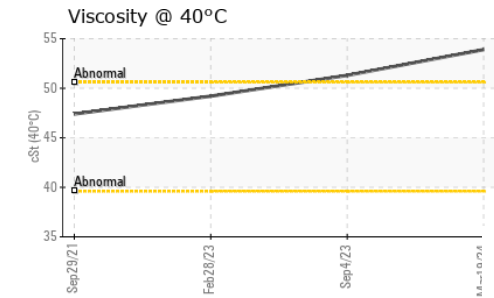
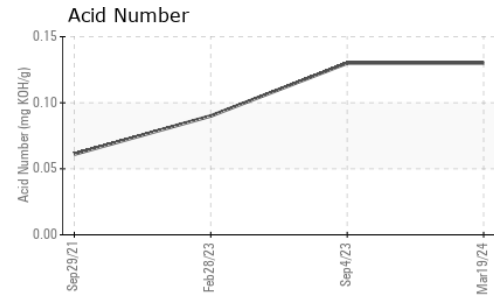
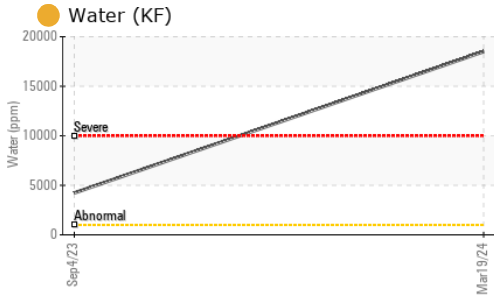
	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >25	<b>4</b>	2	2
Sodium	ppm	ASTM D5185m	<b>35</b>	30	37
Potassium	ppm	ASTM D5185m >20	<b>6</b>	4	4
Water	%	ASTM D6304 >0.1	<b>1.85</b>	0.423	---
ppm Water	ppm	ASTM D6304 >1000	<b>18500</b>	4230	---

#### FLUID DEGRADATION

	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	<b>0.13</b>	0.13	0.09



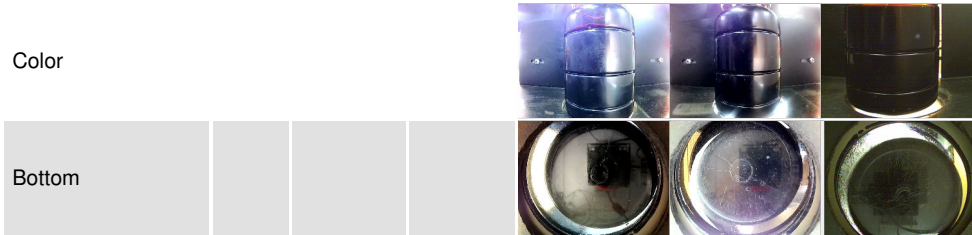
# OIL ANALYSIS REPORT



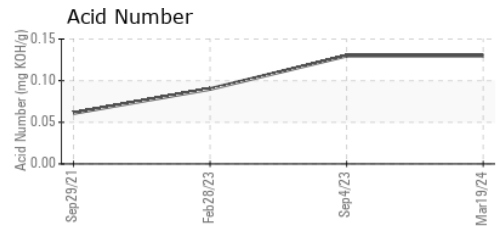
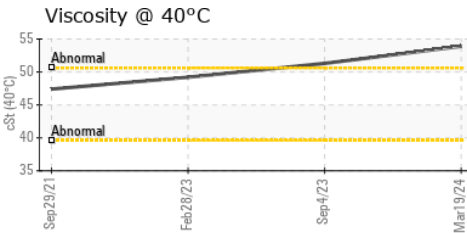
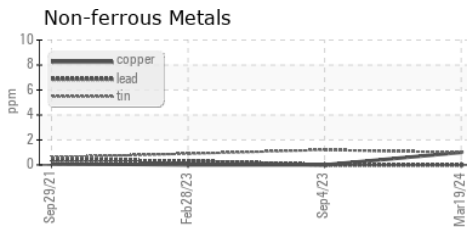
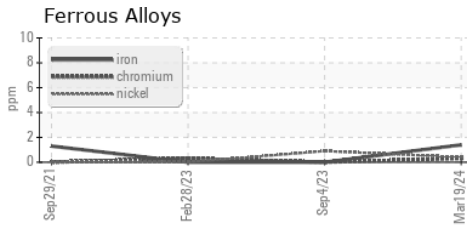
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance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

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	53.9	51.3	49.2

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. : UCH06134158 Received : 29 Mar 2024  
 Lab Number : 06134158 Tested : 03 Apr 2024  
 Unique Number : 10953623 Diagnosed : 03 Apr 2024 - Don Baldrige  
 Test Package : IND 2 ( Additional Tests: KF )

**GREEN COUNTY COMPRESSOR SERVICE**  
 11974 E 530 RD  
 CLAREMORE, OK  
 US 74019  
 Contact: ASHLEY PIGUET  
 ashley@gccs.us.com  
 T: (918)906-6343  
 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)