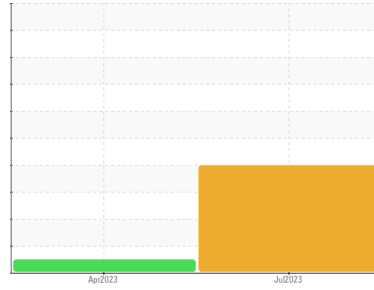




# PROBLEM SUMMARY

Area  
**ULTRACHEM 446 [7164813]**  
 Machine Id  
**IEPC375-2 (S/N 201409030042)**  
 Component  
**Compressor**

Sample Rating Trend

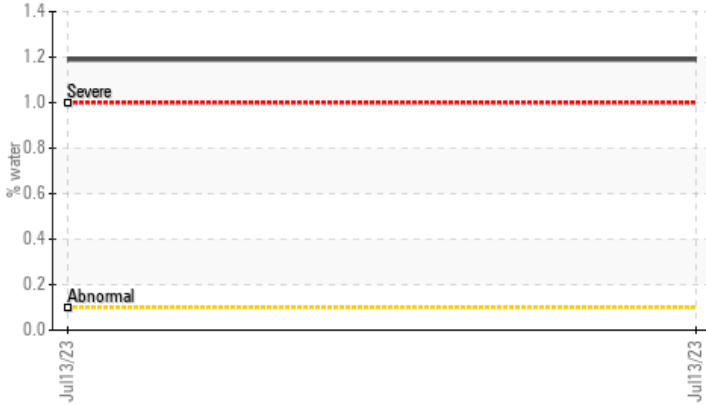


**WATER**



## COMPONENT CONDITION SUMMARY

▲ Water



## RECOMMENDATION

Oil and filter change at the time of sampling has been noted. We recommend an early resample to monitor this condition.

## PROBLEMATIC TEST RESULTS

Sample Status				ATTENTION	NORMAL	---
Water	%	ASTM D6304	>0.1	▲ <b>1.19</b>	---	---
ppm Water	ppm	ASTM D6304	>1000	▲ <b>11900</b>	---	---
Appearance	scalar	*Visual	NORML	▲ <b>HAZY</b>	NORML	---
Emulsified Water	scalar	*Visual	>0.1	▲ <b>0.2%</b>	NEG	---
Free Water	scalar	*Visual		▲ <b>10.0</b>	NEG	---

Customer Id: UCMACIND  
 Sample No.: UCH001014  
 Lab Number: 05900045  
 Test Package: IND 2



To manage this report scan the QR code

To discuss the diagnosis or test data:  
 Don Baldrige +1  
[don.b505@comcast.net](mailto:don.b505@comcast.net)

To change component or sample information:  
 Customer Service +1 1-800-237-1369  
[customerservice@wearcheck.com](mailto:customerservice@wearcheck.com)

## RECOMMENDED ACTIONS

Action	Status	Date	Done By	Description
Change Fluid	---	---	?	Oil and filter change at the time of sampling has been noted.
Change Filter	---	---	?	Oil and filter change at the time of sampling has been noted.
Resample	---	---	?	We recommend an early resample to monitor this condition.

## HISTORICAL DIAGNOSIS

**24 Apr 2023 Diag: Don Baldrige**

NORMAL



Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

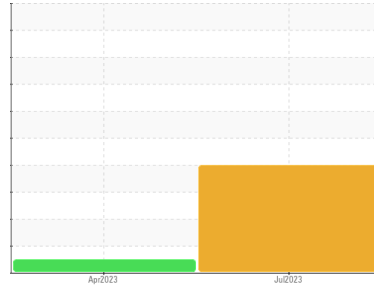
view report





# OIL ANALYSIS REPORT

Sample Rating Trend



**WATER**



Area  
**ULTRACHEM 446 [7164813]**  
 Machine Id  
**IEPC375-2 (S/N 201409030042)**  
 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

Moderate concentration of visible dirt/debris present in the oil. There is a high amount of visible silt present in the sample. There is a high 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>UCH001014</b>	UCH001001	---
Sample Date	Client Info		<b>13 Jul 2023</b>	24 Apr 2023	---
Machine Age	hrs	Client Info	<b>4202</b>	4890	---
Oil Age	hrs	Client Info	<b>1060</b>	1424	---
Oil Changed	Client Info		<b>Changed</b>	Not Changd	---
Sample Status			<b>ATTENTION</b>	NORMAL	---

## WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >50	<b>14</b>	2	---
Chromium	ppm	ASTM D5185m >10	<b>0</b>	0	---
Nickel	ppm	ASTM D5185m	<b>0</b>	0	---
Titanium	ppm	ASTM D5185m	<b>&lt;1</b>	0	---
Silver	ppm	ASTM D5185m	<b>0</b>	0	---
Aluminum	ppm	ASTM D5185m >25	<b>&lt;1</b>	0	---
Lead	ppm	ASTM D5185m >25	<b>0</b>	0	---
Copper	ppm	ASTM D5185m >50	<b>&lt;1</b>	0	---
Tin	ppm	ASTM D5185m >15	<b>&lt;1</b>	0	---
Vanadium	ppm	ASTM D5185m	<b>&lt;1</b>	0	---
Cadmium	ppm	ASTM D5185m	<b>0</b>	0	---

## ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m 0	<b>0</b>	0	---
Barium	ppm	ASTM D5185m 0	<b>0</b>	0	---
Molybdenum	ppm	ASTM D5185m 0	<b>0</b>	0	---
Manganese	ppm	ASTM D5185m 0	<b>&lt;1</b>	0	---
Magnesium	ppm	ASTM D5185m 0	<b>3</b>	4	---
Calcium	ppm	ASTM D5185m 0	<b>13</b>	14	---
Phosphorus	ppm	ASTM D5185m 1500	<b>270</b>	242	---
Zinc	ppm	ASTM D5185m 0	<b>49</b>	42	---
Sulfur	ppm	ASTM D5185m 550	<b>1163</b>	1042	---

## CONTAMINANTS

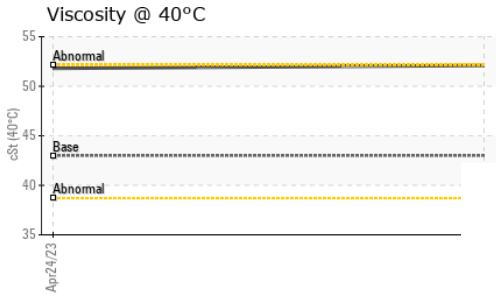
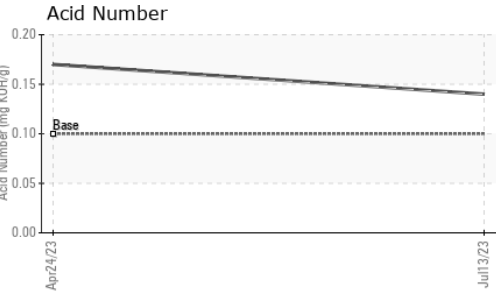
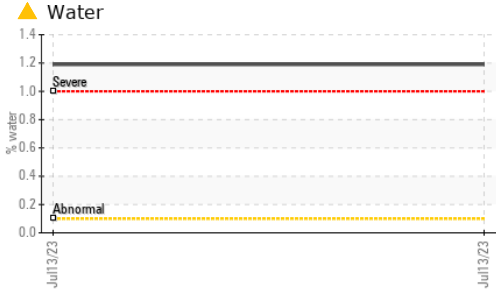
	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >25	<b>3</b>	4	---
Sodium	ppm	ASTM D5185m	<b>&lt;1</b>	5	---
Potassium	ppm	ASTM D5185m >20	<b>&lt;1</b>	3	---
Water	%	ASTM D6304 >0.1	<b>▲ 1.19</b>	---	---
ppm Water	ppm	ASTM D6304 >1000	<b>▲ 11900</b>	---	---

## FLUID DEGRADATION

	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045 0.1	<b>0.14</b>	0.17	---



# OIL ANALYSIS REPORT



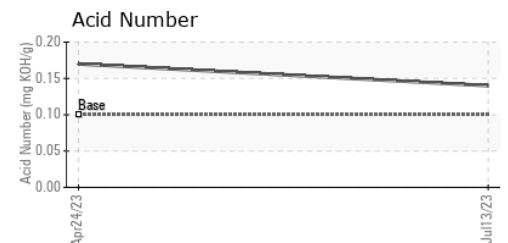
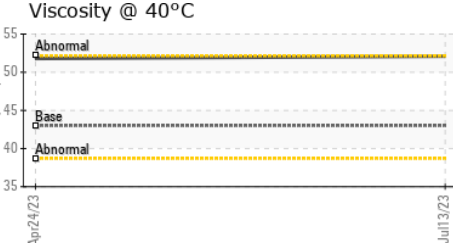
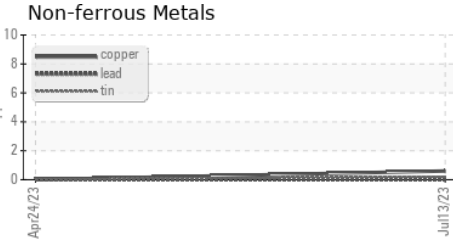
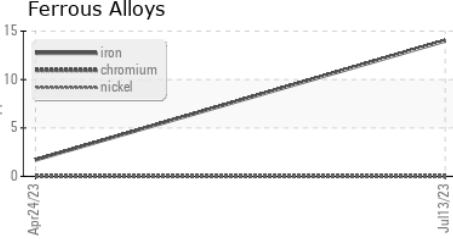
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	---
Precipitate	scalar	*Visual	NONE	NONE	---
Silt	scalar	*Visual	NONE	NONE	---
Debris	scalar	*Visual	NONE	NONE	---
Sand/Dirt	scalar	*Visual	NONE	NONE	---
Appearance	scalar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

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445 43	<b>52.1</b>	51.8	---

### SAMPLE IMAGES

method	limit/base	current	history1	history2	
Color					no image
Bottom					no image

### GRAPHS



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : UCH001014 **Received** : 17 Jul 2023  
**Lab Number** : 05900045 **Diagnosed** : 18 Jul 2023  
**Unique Number** : 10561401 **Diagnostician** : Don Baldrige  
**Test Package** : IND 2 ( Additional Tests: KF )

**MACALLISTER MACHINERY**  
 6300 SOUTHEASTERN AVE  
 INDIANAPOLIS, IN  
 US 46203  
 Contact: CHRIS RATHER  
 chrisrather@macallister.com

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)