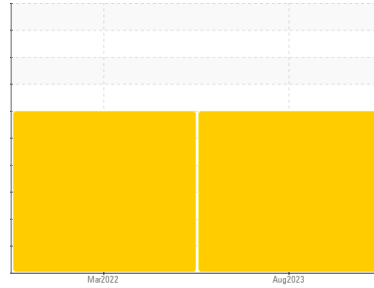




# PROBLEM SUMMARY

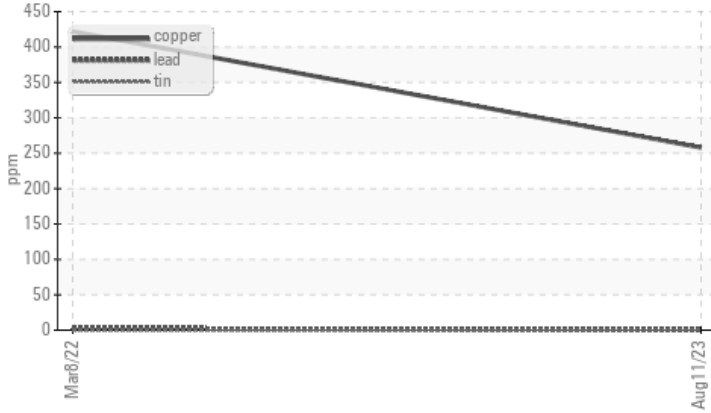
Area  
**S-460**  
 Machine Id  
**KAESER 1029 - CITY OF JOLIET**  
 Component  
**Compressor**

Sample Rating Trend



## COMPONENT CONDITION SUMMARY

### Non-ferrous Metals



## RECOMMENDATION

Oil and filter change at the time of sampling has been noted. We advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition.

## PROBLEMATIC TEST RESULTS

Sample Status	SEVERE	SEVERE	---
Copper	ppm ASTM D5185m >50	<b>258</b>	422

Customer Id: UCDEL DOW  
 Sample No.: UCH05934422  
 Lab Number: 05934422  
 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
Inspect Wear Source	---	---	?	We advise that you inspect for the source(s) of wear.
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

08 Mar 2022 Diag: Jonathan Hester

### WEAR



We suspect abnormal contamination may be due to sampling method. Oil and filter change at the time of sampling has been noted. We advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition. The copper level is severe. Moderate concentration of visible dirt/debris present in the oil. The AN level is acceptable for this fluid.

view report



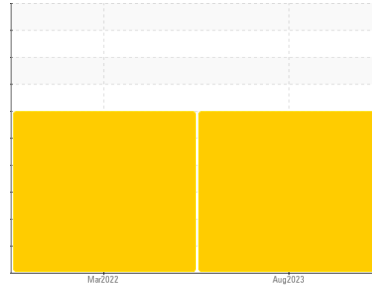


# OIL ANALYSIS REPORT

Sample Rating Trend

WEAR

Area  
**S-460**  
Machine Id  
**KAESER 1029 - CITY OF JOLIET**  
Component  
**Compressor**



## DIAGNOSIS

### Recommendation

Oil and filter change at the time of sampling has been noted. We advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition.

### Wear

The copper level has decreased, but is still severe.

### Contamination

There is no indication of any contamination in the oil.

### Fluid Condition

The AN level is acceptable for this fluid.

## SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		<b>UCH05934422</b>	UCH05502531	---
Sample Date	Client Info		<b>11 Aug 2023</b>	08 Mar 2022	---
Machine Age	hrs	Client Info	<b>29151</b>	27427	---
Oil Age	hrs	Client Info	<b>3000</b>	2796	---
Oil Changed	Client Info		<b>Changed</b>	Changed	---
Sample Status			<b>SEVERE</b>	SEVERE	---

## WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >50	<b>4</b>	0	---
Chromium	ppm	ASTM D5185m >10	<b>0</b>	0	---
Nickel	ppm	ASTM D5185m >3	<b>&lt;1</b>	0	---
Titanium	ppm	ASTM D5185m >3	<b>0</b>	0	---
Silver	ppm	ASTM D5185m >2	<b>0</b>	0	---
Aluminum	ppm	ASTM D5185m >10	<b>0</b>	0	---
Lead	ppm	ASTM D5185m >10	<b>&lt;1</b>	3	---
Copper	ppm	ASTM D5185m >50	<b>258</b>	422	---
Tin	ppm	ASTM D5185m >10	<b>0</b>	0	---
Vanadium	ppm	ASTM D5185m	<b>0</b>	0	---
Cadmium	ppm	ASTM D5185m	<b>0</b>	0	---

## ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	<b>0</b>	0	---
Barium	ppm	ASTM D5185m 90	<b>0</b>	0	---
Molybdenum	ppm	ASTM D5185m	<b>0</b>	0	---
Manganese	ppm	ASTM D5185m	<b>0</b>	0	---
Magnesium	ppm	ASTM D5185m 90	<b>0</b>	0	---
Calcium	ppm	ASTM D5185m 2	<b>0</b>	0	---
Phosphorus	ppm	ASTM D5185m	<b>6</b>	6	---
Zinc	ppm	ASTM D5185m	<b>4</b>	0	---
Sulfur	ppm	ASTM D5185m	<b>15877</b>	11914	---

## CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >25	<b>&lt;1</b>	0	---
Sodium	ppm	ASTM D5185m	<b>0</b>	0	---
Potassium	ppm	ASTM D5185m >20	<b>&lt;1</b>	0	---

## FLUID DEGRADATION

	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045 0.4	<b>0.38</b>	0.34	---

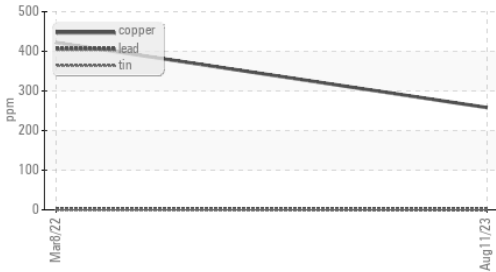
## VISUAL

	method	limit/base	current	history1	history2
White Metal	scalar	*Visual NONE	<b>NONE</b>	NONE	---
Yellow Metal	scalar	*Visual NONE	<b>NONE</b>	NONE	---
Precipitate	scalar	*Visual NONE	<b>NONE</b>	NONE	---
Silt	scalar	*Visual NONE	<b>LIGHT</b>	NONE	---
Debris	scalar	*Visual NONE	<b>NONE</b>	MODER	---
Sand/Dirt	scalar	*Visual NONE	<b>NONE</b>	NONE	---
Appearance	scalar	*Visual NORML	<b>NORML</b>	NORML	---
Odor	scalar	*Visual NORML	<b>NORML</b>	NORML	---
Emulsified Water	scalar	*Visual >0.05	<b>NEG</b>	NEG	---
Free Water	scalar	*Visual	<b>NEG</b>	NEG	---

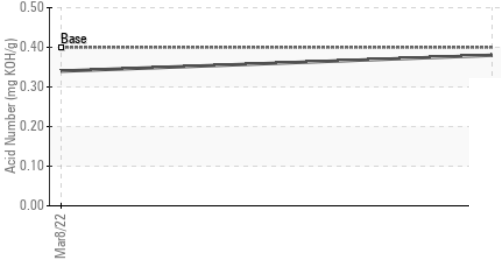


# OIL ANALYSIS REPORT

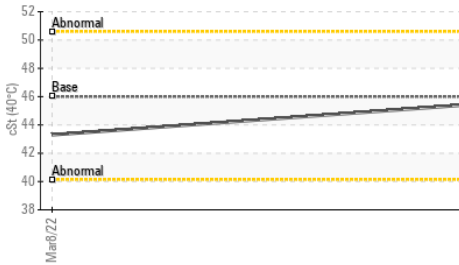
### Non-ferrous Metals



### Acid Number



### Viscosity @ 40°C



### FLUID PROPERTIES

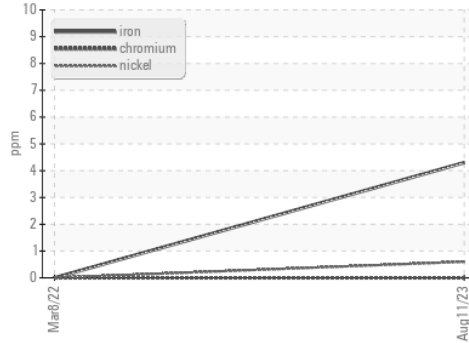
method	limit/base	current	history1	history2	
Visc @ 40°C	cSt ASTM D445	46	<b>45.5</b>	43.3	---

### SAMPLE IMAGES

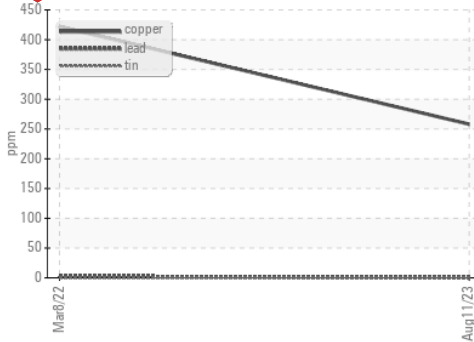
method	limit/base	current	history1	history2	
Color					no image
Bottom					no image

### GRAPHS

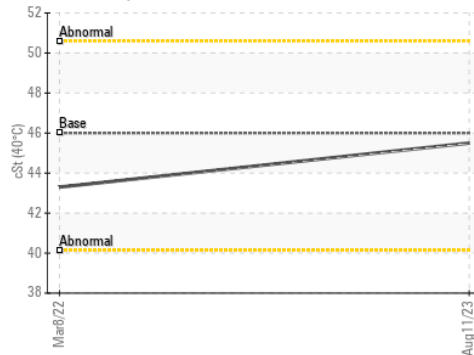
#### Ferrous Alloys



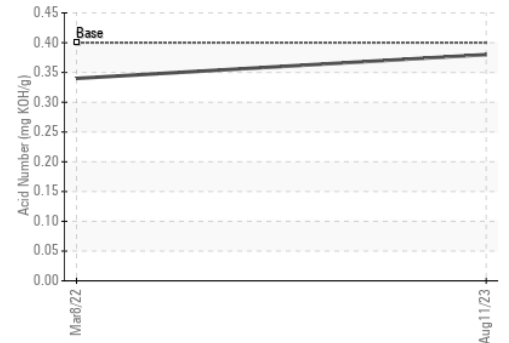
### Non-ferrous Metals



### Viscosity @ 40°C



### Acid Number



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : UCH05934422 **Received** : 24 Aug 2023  
**Lab Number** : 05934422 **Diagnosed** : 27 Aug 2023  
**Unique Number** : 10619693 **Diagnostician** : Don Baldrige  
**Test Package** : IND 2

**DELTA INDUSTRIES - DOWNERS GROVE**  
 2201 CURTISS STREET  
 DOWNERS GROVE, IL  
 US 60515  
 Contact: MICHAEL FERRIS

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)

T: (630)960-3931