



# OIL ANALYSIS REPORT

WEAR	<b>NORMAL</b>
CONTAMINATION	<b>NORMAL</b>
FLUID CONDITION	<b>NORMAL</b>

Area

**S-460 [10631]**

Machine Id

**KAESER 1047 - AMAZON**

Component

**Compressor**

Fluid

**KAESER SIGMA (OEM) S-460 (--- GAL)**

## RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>WC0924278</b>	UDI06141427	UCH05885715
Sample Date		Client Info		<b>08 Jul 2024</b>	01 Apr 2024	19 Jun 2023
Machine Age	hrs	Client Info		<b>15268</b>	12917	10625
Oil Age	hrs	Client Info		<b>2554</b>	3	6152
Filter Age	hrs	Client Info		<b>2952</b>	1	6152
Oil Changed		Client Info		<b>Not Changed</b>	Not Changed	Changed
Filter Changed		Client Info		<b>Changed</b>	Not Changed	Changed
Sample Status				<b>NORMAL</b>	NORMAL	NORMAL

## WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>50	<b>0</b>	0	2
Chromium	ppm	ASTM D5185m	>10	<b>0</b>	0	2
Nickel	ppm	ASTM D5185m	>3	<b>0</b>	0	2
Titanium	ppm	ASTM D5185m	>3	<b>0</b>	0	2
Silver	ppm	ASTM D5185m	>2	<b>0</b>	0	1
Aluminum	ppm	ASTM D5185m	>10	<b>0</b>	0	5
Lead	ppm	ASTM D5185m	>10	<b>0</b>	0	5
Copper	ppm	ASTM D5185m	>50	<b>&lt;1</b>	0	6
Tin	ppm	ASTM D5185m	>10	<b>0</b>	0	2
Vanadium	ppm	ASTM D5185m		<b>0</b>	0	1
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE

## CONTAMINATION

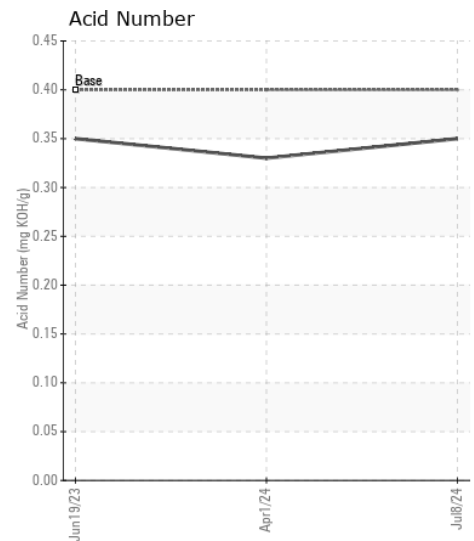
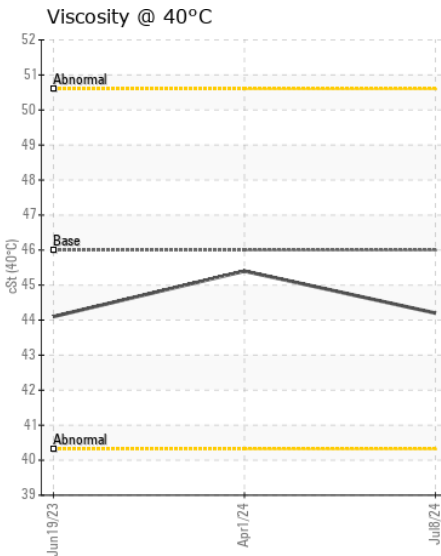
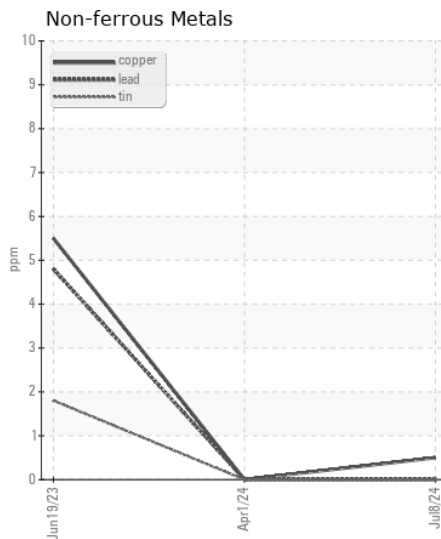
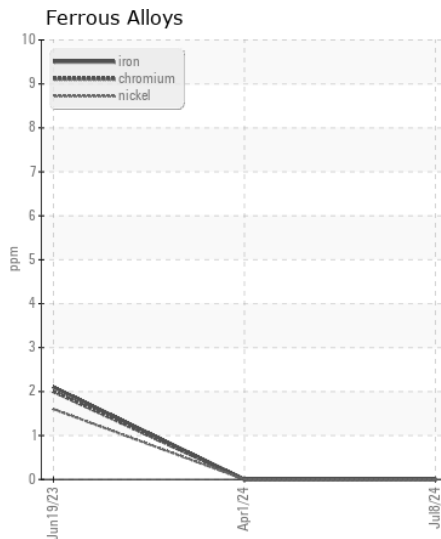
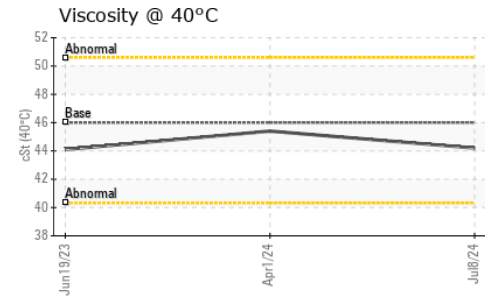
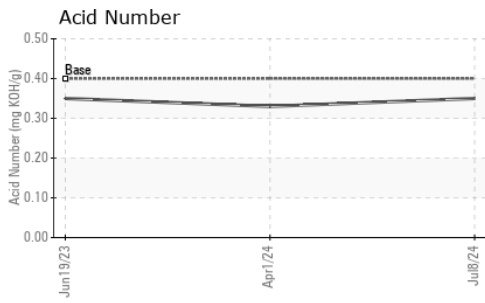
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>25	<b>1</b>	0	3
Potassium	ppm	ASTM D5185m	>20	<b>7</b>	0	8
Water		WC Method	>0.05	<b>NEG</b>	NEG	NEG
Silt	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Debris	scalar	*Visual	NONE	<b>NONE</b>	LIGHT	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	>0.05	<b>NEG</b>	NEG	NEG

## FLUID CONDITION

The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

Sodium	ppm	ASTM D5185m		<b>25</b>	7	8
Boron	ppm	ASTM D5185m		<b>0</b>	0	0
Barium	ppm	ASTM D5185m	90	<b>60</b>	67	22
Molybdenum	ppm	ASTM D5185m		<b>0</b>	0	2
Manganese	ppm	ASTM D5185m		<b>0</b>	0	2
Magnesium	ppm	ASTM D5185m	90	<b>72</b>	76	45
Calcium	ppm	ASTM D5185m	2	<b>3</b>	0	2
Phosphorus	ppm	ASTM D5185m		<b>0</b>	0	6
Zinc	ppm	ASTM D5185m		<b>3</b>	0	17
Sulfur	ppm	ASTM D5185m		<b>20040</b>	21119	18398
Acid Number (AN)	mg KOH/g	ASTM D8045	0.4	<b>0.35</b>	0.33	0.35
Visc @ 40°C	cSt	ASTM D445	46	<b>44.2</b>	45.4	44.1



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : WC0924278  
**Lab Number** : 06236160  
**Unique Number** : 11124994  
**Test Package** : IND 2

**Received** : 15 Jul 2024  
**Tested** : 16 Jul 2024  
**Diagnosed** : 16 Jul 2024 - Wes Davis

**DELTA INDUSTRIES - CEDAR RAPIDS**  
 6540 4TH ST SW UNIT A  
 CEDAR RAPIDS, IA  
 US 52404  
 Contact: MICHAEL FERRIS  
 wearcheck@deltaind.net  
 T: (319)862-2500  
 F: (319)862-2501

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)