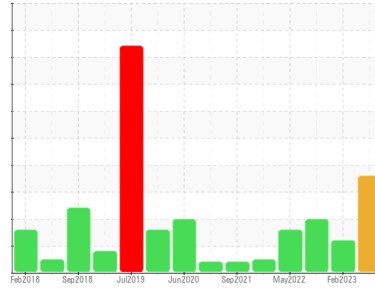




# PROBLEM SUMMARY

Sample Rating Trend



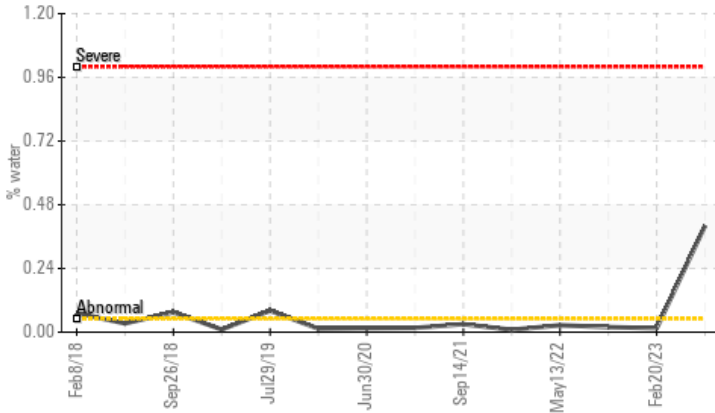
**WATER**



Machine Id  
**KAESER ASD 25T 6042348 (S/N 1120)**  
 Component  
**Compressor**  
 Fluid  
**KAESER SIGMA (OEM) S-460 (--- GAL)**

## COMPONENT CONDITION SUMMARY

### ▲ Water



## RECOMMENDATION

The filter change at the time of sampling has been noted. We were unable to perform a particle count due to a high concentration of particles present in this sample. We advise that you stop the unit and follow the water drain-off procedure for this component. We recommend an early resample in 500 hours to monitor this condition.

## PROBLEMATIC TEST RESULTS

Sample Status				ABNORMAL	ATTENTION	ABNORMAL
Water	%	ASTM D6304	>0.05	▲ <b>0.401</b>	0.015	0.019
ppm Water	ppm	ASTM D6304	>500	▲ <b>4010</b>	151.2	194.0
Silt	scalar	*Visual	NONE	▲ <b>HEAVY</b>	NONE	NONE
Debris	scalar	*Visual	NONE	▲ <b>MODER</b>	LIGHT	LIGHT
Appearance	scalar	*Visual	NORML	▲ <b>HAZY</b>	NORML	NORML
Emulsified Water	scalar	*Visual	>0.05	▲ <b>0.2%</b>	NEG	NEG

Customer Id: INDEX  
 Sample No.: KC102176  
 Lab Number: 05901320  
 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
Alert	---	---	?	We were unable to perform a particle count due to a high concentration of particles present in this sample.

HISTORICAL DIAGNOSIS

20 Feb 2023 Diag: Jonathan Hester

ISO



No corrective action is recommended at this time. Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor. All component wear rates are normal. There is a moderate amount of particulates present in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

view report



01 Sep 2022 Diag: Angela Borella

ISO



No corrective action is recommended at this time. The filter change at the time of sampling has been noted. Resample at the next service interval to monitor. All component wear rates are normal. There is a high amount of particulates present in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

view report



13 May 2022 Diag: Don Baldrige

ISO



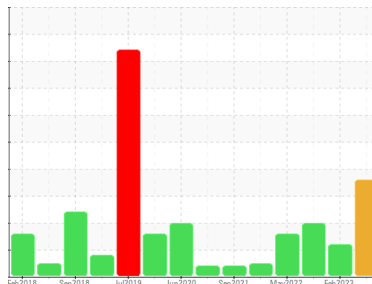
No corrective action is recommended at this time. The filter change at the time of sampling has been noted. Resample at the next service interval to monitor. All component wear rates are normal. There is a high amount of particulates present in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

view report



Machine Id  
**KAESER ASD 25T 6042348 (S/N 1120)**

Component  
**Compressor**  
Fluid  
**KAESER SIGMA (OEM) S-460 (--- GAL)**



**DIAGNOSIS**

**▲ Recommendation**

The filter change at the time of sampling has been noted. We were unable to perform a particle count due to a high concentration of particles present in this sample. We advise that you stop the unit and follow the water drain-off procedure for this component. We recommend an early resample in 500 hours 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 moderate concentration of water present 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>KC102176</b>	KC105679	KC106240
Sample Date	Client Info		<b>11 Jul 2023</b>	20 Feb 2023	01 Sep 2022
Machine Age	hrs	Client Info	<b>30428</b>	2644	25523
Oil Age	hrs	Client Info	<b>30428</b>	5750	3200
Oil Changed	Client Info		<b>Not Changed</b>	Changed	Not Changed
Sample Status			<b>ABNORMAL</b>	ATTENTION	ABNORMAL

**WEAR METALS**

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >50	<b>1</b>	0	0
Chromium	ppm	ASTM D5185m >10	<b>0</b>	0	0
Nickel	ppm	ASTM D5185m >3	<b>0</b>	0	0
Titanium	ppm	ASTM D5185m >3	<b>&lt;1</b>	0	0
Silver	ppm	ASTM D5185m >2	<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m >10	<b>2</b>	<1	<1
Lead	ppm	ASTM D5185m >10	<b>0</b>	0	0
Copper	ppm	ASTM D5185m >50	<b>4</b>	6	6
Tin	ppm	ASTM D5185m >10	<b>&lt;1</b>	0	0
Vanadium	ppm	ASTM D5185m	<b>&lt;1</b>	0	0
Cadmium	ppm	ASTM D5185m	<b>0</b>	0	0

**ADDITIVES**

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	<b>0</b>	0	0
Barium	ppm	ASTM D5185m 90	<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185m	<b>0</b>	0	0
Manganese	ppm	ASTM D5185m	<b>&lt;1</b>	<1	0
Magnesium	ppm	ASTM D5185m 90	<b>17</b>	22	39
Calcium	ppm	ASTM D5185m 2	<b>0</b>	0	0
Phosphorus	ppm	ASTM D5185m	<b>47</b>	0	0
Zinc	ppm	ASTM D5185m	<b>39</b>	67	52

**CONTAMINANTS**

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >25	<b>0</b>	0	0
Sodium	ppm	ASTM D5185m	<b>6</b>	9	12
Potassium	ppm	ASTM D5185m >20	<b>&lt;1</b>	0	3
Water	%	ASTM D6304 >0.05	<b>▲ 0.401</b>	0.015	0.019
ppm Water	ppm	ASTM D6304 >500	<b>▲ 4010</b>	151.2	194.0

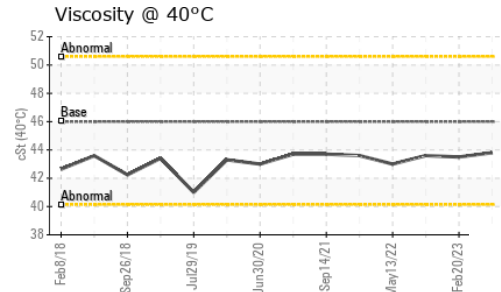
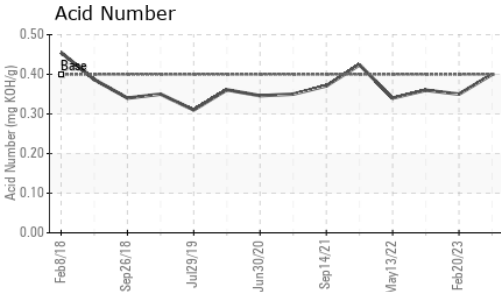
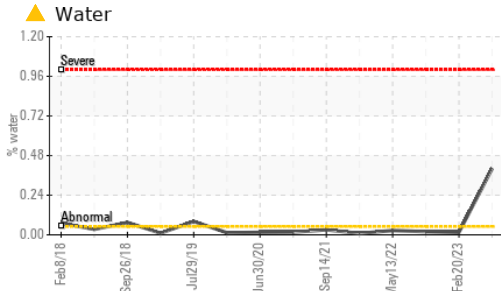
**FLUID CLEANLINESS**

	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647		---	2108	11755
Particles >6µm	ASTM D7647	>1300	---	701	▲ 4248
Particles >14µm	ASTM D7647	>80	---	▲ 86	▲ 698
Particles >21µm	ASTM D7647	>20	---	▲ 24	▲ 218
Particles >38µm	ASTM D7647	>4	---	2	▲ 15
Particles >71µm	ASTM D7647	>3	---	0	1
Oil Cleanliness	ISO 4406 (c)	>--/17/13	---	▲ 18/17/14	▲ 21/19/17

**FLUID DEGRADATION**

	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045 0.4	<b>0.40</b>	0.35	0.36

# OIL ANALYSIS REPORT



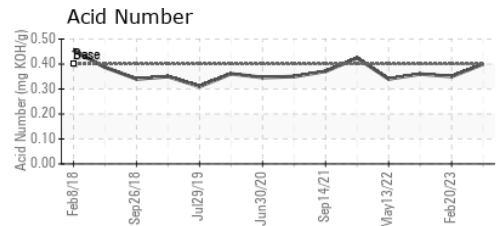
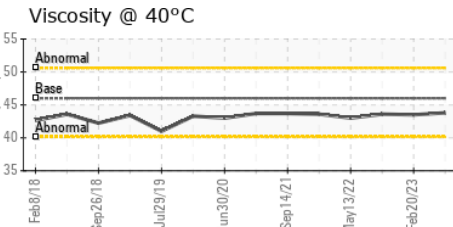
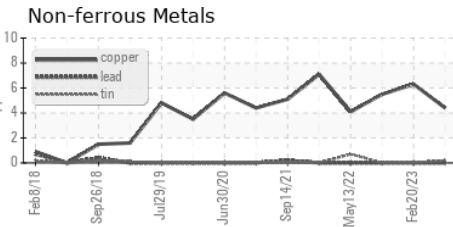
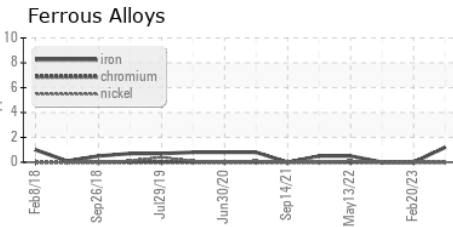
VISUAL	method	limit/base	current	history1	history2	
White Metal	scalar	*Visual	NONE	NONE	NONE	
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
Precipitate	scalar	*Visual	NONE	NONE	NONE	
Silt	scalar	*Visual	▲ HEAVY	NONE	NONE	
Debris	scalar	*Visual	▲ MODER	LIGHT	LIGHT	
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	
Appearance	scalar	*Visual	▲ HAZY	NORML	NORML	
Odor	scalar	*Visual	NORML	NORML	NORML	
Emulsified Water	scalar	*Visual	>0.05	▲ 0.2%	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445 46	43.8	43.5	43.6

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.** : KC102176 **Received** : 18 Jul 2023  
**Lab Number** : 05901320 **Diagnosed** : 20 Jul 2023  
**Unique Number** : 10562676 **Diagnostician** : Don Baldrige  
**Test Package** : IND 2

**INDUSTRIAL TECTONICS**  
 7222 W HURON DR  
 DEXTER, MI  
 US 48130  
 Contact: Service Manager

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:  
F: