

# PROBLEM SUMMARY

## Sample Rating Trend

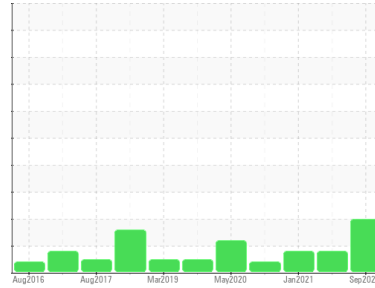
ISO



Machine Id  
**KAESER SFC 30T 5422202 (S/N 1007)**

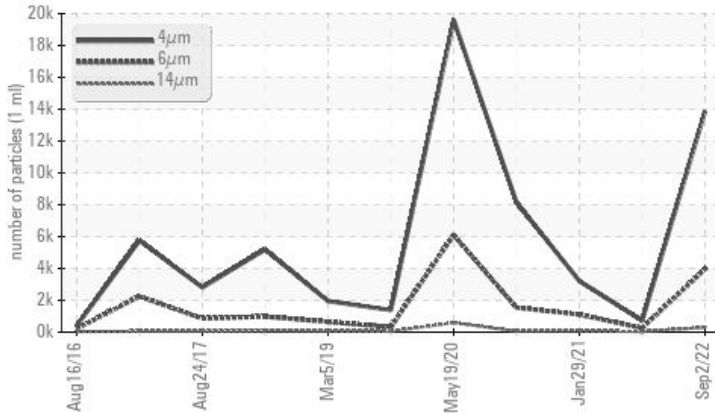
Component  
**Compressor**

Fluid  
**KAESER SIGMA (OEM) FG-460 (--- GAL)**



## COMPONENT CONDITION SUMMARY

### ▲ Particle Trend



## RECOMMENDATION

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.

## PROBLEMATIC TEST RESULTS

Sample Status			ABNORMAL	MARGINAL	ABNORMAL
Particles >6µm	ASTM D7647	>1300	▲ 3956	253	1105
Particles >14µm	ASTM D7647	>80	▲ 299	32	76
Particles >21µm	ASTM D7647	>20	▲ 84	12	23
Particles >38µm	ASTM D7647	>4	▲ 4	0	2
Oil Cleanliness	ISO 4406 (c)	>--/17/13	▲ 21/19/15	15/12	17/13

Customer Id: EDEQUO  
Sample No.: KCP51494  
Lab Number: 05638101  
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.

## HISTORICAL DIAGNOSIS

### 22 Sep 2021 Diag: Doug Bogart

WEAR



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. The aluminum level is abnormal. All other component wear rates are normal. There is no indication of any contamination in the oil. The amount and size of particulates present in the system are acceptable. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

view report



### 29 Jan 2021 Diag: Doug Bogart

WEAR



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. The aluminum level is abnormal. All other component wear rates are normal. There is no indication of any contamination in the oil. The amount and size of particulates present in the system are acceptable. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

view report



### 16 Sep 2020 Diag: Doug Bogart

ISO



Oil and filter change at the time of sampling has been noted. No corrective action is recommended at this time. Resample at the next service interval to monitor. All component wear rates are normal. There is a moderate amount of silt (particulates < 14 microns in size) present in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

view report



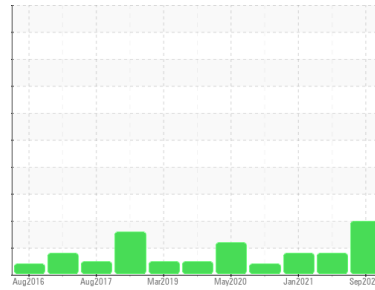
Machine Id  
**KAESER SFC 30T 5422202 (S/N 1007)**

Component

**Compressor**

Fluid

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



## DIAGNOSIS

### ▲ Recommendation

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.

### Wear

All component wear rates are normal.

### ▲ Contamination

There is a high amount of particulates present in the oil.

### Fluid Condition

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

## SAMPLE INFORMATION

	method	limit/base	current	history 1	history 2
Sample Number			<b>KCP51494</b>	KCP36347	KCP34684
Sample Date			<b>02 Sep 2022</b>	22 Sep 2021	29 Jan 2021
Machine Age	hrs		<b>35397</b>	29482	25942
Oil Age	hrs		<b>2444</b>	4944	1404
Oil Changed			<b>Changed</b>	Changed	Changed
Sample Status			<b>ABNORMAL</b>	MARGINAL	ABNORMAL

## WEAR METALS

	method	limit/base	current	history 1	history 2
Iron	ppm ASTM D5185m	>50	<b>2</b>	2	7
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>0</b>	0	0
Silver	ppm ASTM D5185m	>2	<b>&lt;1</b>	<1	0
Aluminum	ppm ASTM D5185m	>10	<b>5</b>	▲ 23	▲ 21
Lead	ppm ASTM D5185m	>10	<b>&lt;1</b>	<1	<1
Copper	ppm ASTM D5185m	>50	<b>3</b>	3	8
Tin	ppm ASTM D5185m	>10	<b>&lt;1</b>	0	<1
Antimony	ppm ASTM D5185m		<b>---</b>	<1	<1
Vanadium	ppm ASTM D5185m		<b>0</b>	0	0
Cadmium	ppm ASTM D5185m		<b>0</b>	0	0

## ADDITIVES

	method	limit/base	current	history 1	history 2
Boron	ppm ASTM D5185m		<b>0</b>	<1	<1
Barium	ppm ASTM D5185m		<b>0</b>	0	<1
Molybdenum	ppm ASTM D5185m		<b>0</b>	0	0
Manganese	ppm ASTM D5185m		<b>0</b>	0	<1
Magnesium	ppm ASTM D5185m		<b>0</b>	2	<1
Calcium	ppm ASTM D5185m		<b>0</b>	0	0
Phosphorus	ppm ASTM D5185m	500	<b>128</b>	287	415
Zinc	ppm ASTM D5185m		<b>45</b>	138	177
Sulfur	ppm ASTM D5185m		<b>1532</b>	1782	1291

## CONTAMINANTS

	method	limit/base	current	history 1	history 2
Silicon	ppm ASTM D5185m	>25	<b>&lt;1</b>	0	0
Sodium	ppm ASTM D5185m		<b>0</b>	0	0
Potassium	ppm ASTM D5185m	>20	<b>0</b>	0	<1
Water	% ASTM D6304	>0.05	<b>0.002</b>	0.005	0.008
ppm Water	ppm ASTM D6304	>500	<b>21.2</b>	56.2	80.9

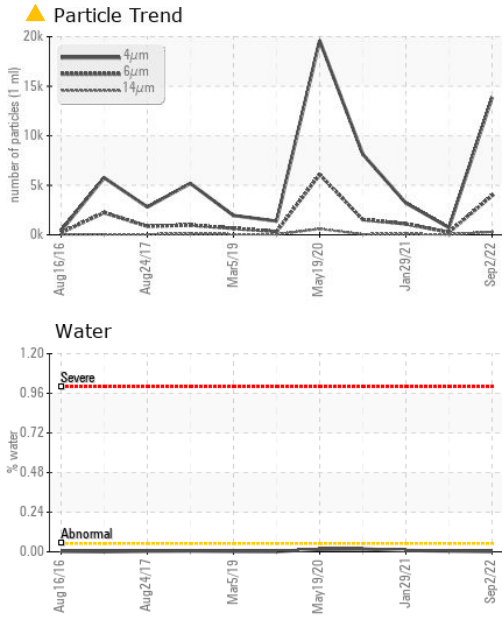
## FLUID CLEANLINESS

	method	limit/base	current	history 1	history 2
Particles >4µm	ASTM D7647		<b>13861</b>	723	3212
Particles >6µm	ASTM D7647	>1300	▲ <b>3956</b>	253	1105
Particles >14µm	ASTM D7647	>80	▲ <b>299</b>	32	76
Particles >21µm	ASTM D7647	>20	▲ <b>84</b>	12	23
Particles >38µm	ASTM D7647	>4	▲ <b>4</b>	0	2
Particles >71µm	ASTM D7647	>3	<b>0</b>	0	0
Oil Cleanliness	ISO 4406 (c)	>--/17/13	▲ <b>21/19/15</b>	15/12	17/13

## FLUID DEGRADATION

	method	limit/base	current	history 1	history 2
Acid Number (AN)	mg KOH/g ASTM D8045	1.5	<b>0.48</b>	0.655	1.070

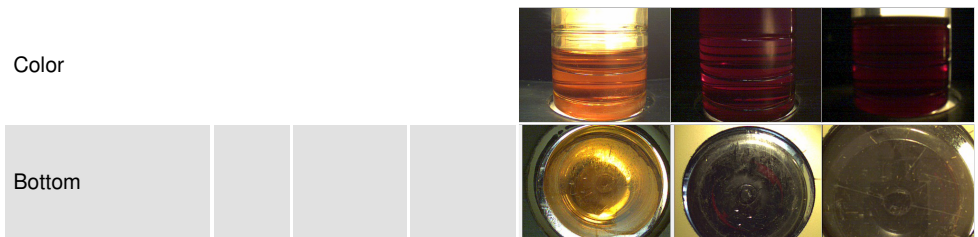
# OIL ANALYSIS REPORT



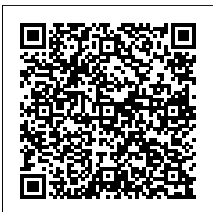
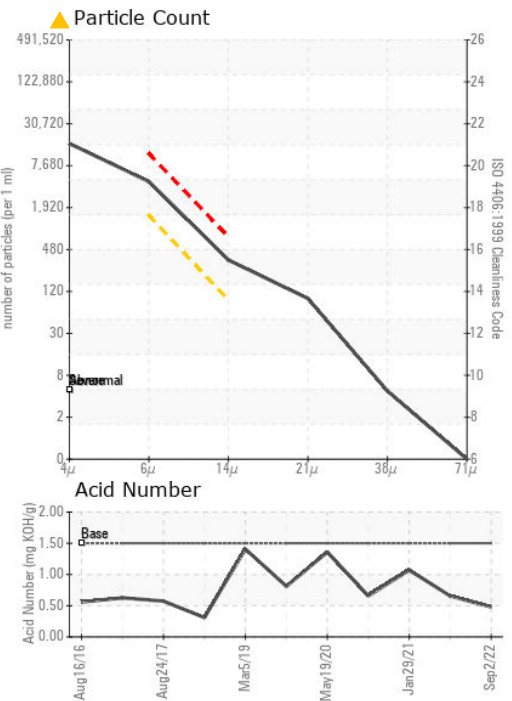
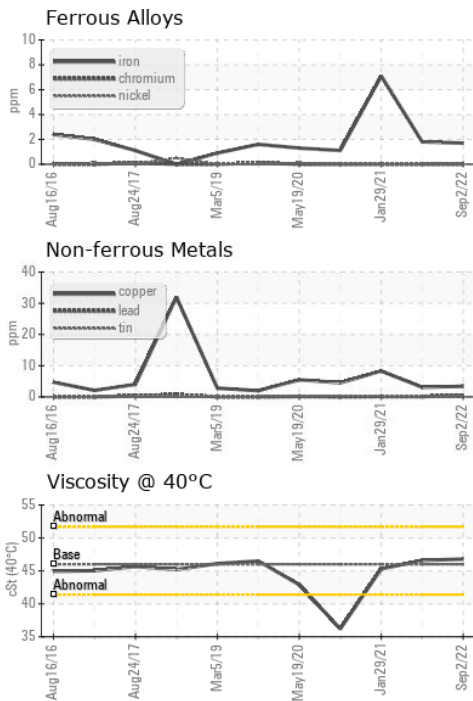
VISUAL	method	limit/base	current	history 1	history 2
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.05	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG

FLUID PROPERTIES	method	limit/base	current	history 1	history 2
Visc @ 40°C	cSt	ASTM D445	46	46.8	46.6

SAMPLE IMAGES	method	limit/base	current	history 1	history 2
---------------	--------	------------	---------	-----------	-----------



## GRAPHS



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : KCP51494 **Received** : 09 Sep 2022  
**Lab Number** : 05638101 **Diagnosed** : 13 Sep 2022  
**Unique Number** : 10127631 **Diagnostician** : Don Baldrige  
**Test Package** : IND 2 ( Additional Tests: KF, PrtCount )

**EDESIA - INDUSTRIAL REVELATION**  
 550 ROMANO VINYARD WAY  
 QUONSET, RI  
 USA 02852  
 Contact:

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: