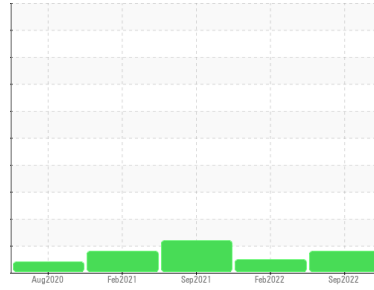


PROBLEM SUMMARY

Sample Rating Trend



ISO



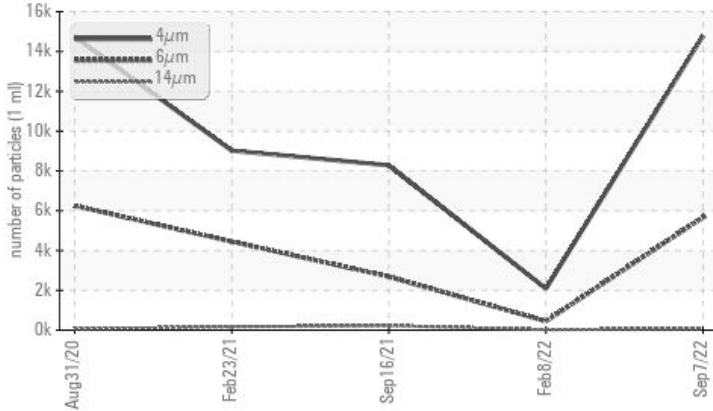
Machine Id
KAESER SK 20 7143406 (S/N 1380)

Component
Compressor

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

COMPONENT CONDITION SUMMARY

▲ Particle Trend



RECOMMENDATION

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.

PROBLEMATIC TEST RESULTS

Sample Status		ABNORMAL	NORMAL	ABNORMAL
Particles >6µm	ASTM D7647 >1300	▲ 5671	451	▲ 2686
Oil Cleanliness	ISO 4406 (c) >--/17/13	▲ 21/20/13	16/12	▲ 19/15

Customer Id: AERSOU
Sample No.: KC86591
Lab Number: 05639108
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

To change component or sample information:
Customer Service +1 1-800-237-1369
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

08 Feb 2022 Diag: Don Baldrige

NORMAL



Resample at the next service interval to monitor. All component wear rates are normal. The amount and size of particulates present in the system are acceptable. 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



16 Sep 2021 Diag: Angela Borella

ISO



We recommend you service the filters on this component. 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



23 Feb 2021 Diag: Don Baldrige

ISO



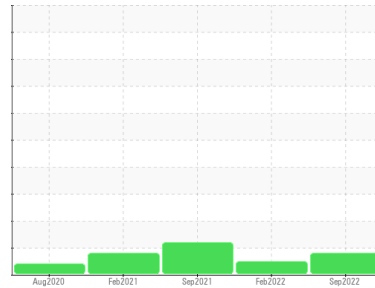
No corrective action is recommended at this time. Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor. All component wear rates are normal. There is a high amount of particulates present in the oil. The AN level is acceptable for this fluid.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

view report



Machine Id
KAESER SK 20 7143406 (S/N 1380)

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



DIAGNOSIS

Recommendation

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.

Wear

All component wear rates are normal.

Contamination

There is a high amount of silt (particulates < 14 microns in size) 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			KC86591	KC83918	KC98240
Sample Date			07 Sep 2022	08 Feb 2022	16 Sep 2021
Machine Age	hrs		11053	8498	8494
Oil Age	hrs		5300	2266	2262
Oil Changed			Changed	Not Changd	Not Changd
Sample Status			ABNORMAL	NORMAL	ABNORMAL

WEAR METALS

	method	limit/base	current	history 1	history 2
Iron	ppm ASTM D5185m	>50	<1	<1	0
Chromium	ppm ASTM D5185m	>10	0	0	0
Nickel	ppm ASTM D5185m	>3	0	<1	0
Titanium	ppm ASTM D5185m	>3	0	0	0
Silver	ppm ASTM D5185m	>2	0	<1	<1
Aluminum	ppm ASTM D5185m	>10	<1	<1	<1
Lead	ppm ASTM D5185m	>10	0	0	0
Copper	ppm ASTM D5185m	>50	9	7	6
Tin	ppm ASTM D5185m	>10	0	0	0
Antimony	ppm ASTM D5185m		---	0	0
Vanadium	ppm ASTM D5185m		0	0	0
Cadmium	ppm ASTM D5185m		0	0	0

ADDITIVES

	method	limit/base	current	history 1	history 2
Boron	ppm ASTM D5185m		0	0	4
Barium	ppm ASTM D5185m	90	3	4	0
Molybdenum	ppm ASTM D5185m		0	0	0
Manganese	ppm ASTM D5185m		0	0	0
Magnesium	ppm ASTM D5185m	90	15	39	31
Calcium	ppm ASTM D5185m	2	0	<1	0
Phosphorus	ppm ASTM D5185m		4	9	<1
Zinc	ppm ASTM D5185m		8	4	4

CONTAMINANTS

	method	limit/base	current	history 1	history 2
Silicon	ppm ASTM D5185m	>25	0	<1	0
Sodium	ppm ASTM D5185m		4	9	7
Potassium	ppm ASTM D5185m	>20	0	2	1
Water	% ASTM D6304	>0.05	0.011	0.008	0.020
ppm Water	ppm ASTM D6304	>500	112.6	85.0	204.7

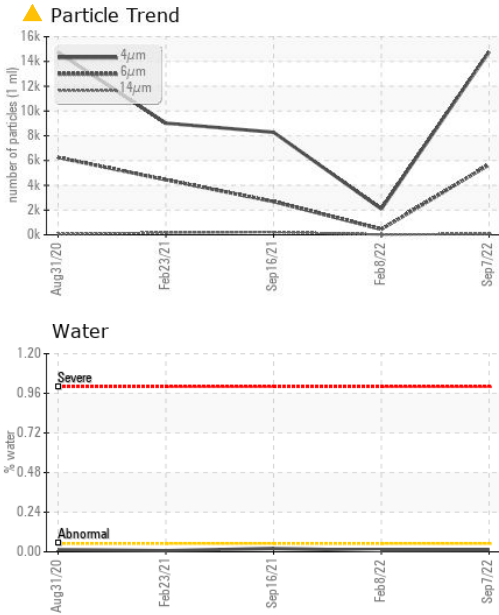
FLUID CLEANLINESS

	method	limit/base	current	history 1	history 2
Particles >4µm	ASTM D7647		14784	2090	8281
Particles >6µm	ASTM D7647	>1300	▲ 5671	451	▲ 2686
Particles >14µm	ASTM D7647	>80	69	23	▲ 223
Particles >21µm	ASTM D7647	>20	6	5	▲ 65
Particles >38µm	ASTM D7647	>4	0	0	4
Particles >71µm	ASTM D7647	>3	0	0	0
Oil Cleanliness	ISO 4406 (c)	>--/17/13	▲ 21/20/13	16/12	▲ 19/15

FLUID DEGRADATION

	method	limit/base	current	history 1	history 2
Acid Number (AN)	mg KOH/g ASTM D8045	0.4	0.31	0.29	0.310

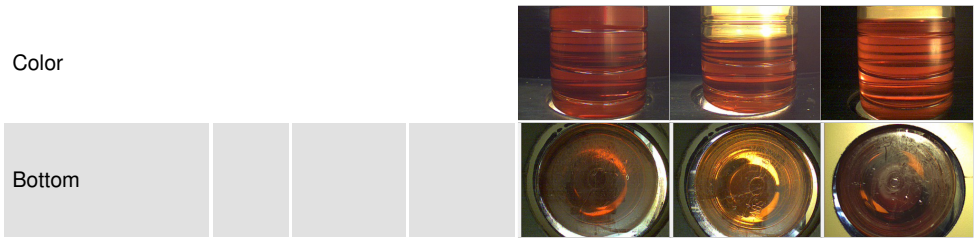
OIL ANALYSIS REPORT



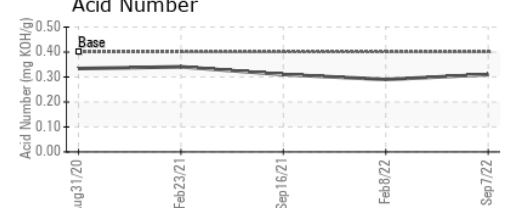
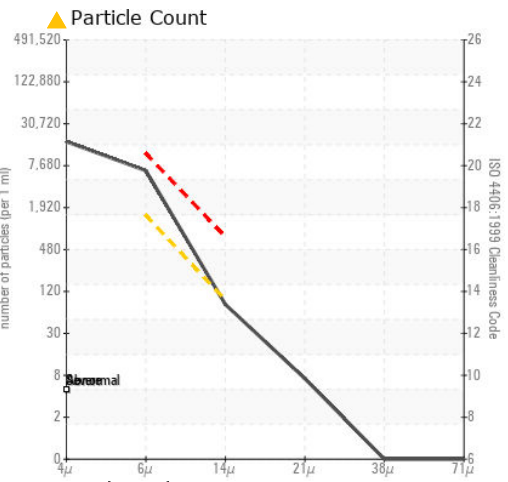
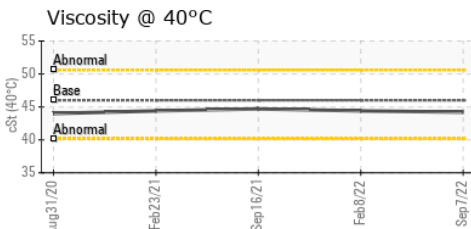
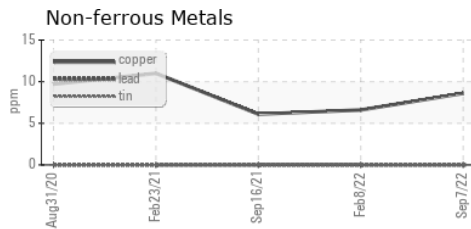
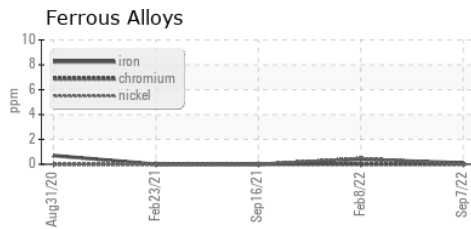
PARAMETER	method	limit/base	current	history 1	history 2
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	LIGHT	LIGHT
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance	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

PARAMETER	method	limit/base	current	history 1	history 2
Visc @ 40°C	cSt	ASTM D445	46	44.2	44.4

PARAMETER	method	limit/base	current	history 1	history 2
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GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : KC86591 **Received** : 12 Sep 2022
Lab Number : 05639108 **Diagnosed** : 14 Sep 2022
Unique Number : 10128638 **Diagnostician** : Don Baldrige
Test Package : IND 2

AERO CONTROLEX GROUP
 4226 MONITCELLO BLVD.
 SOUTH EUCLID, OH
 USA 44121
 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)