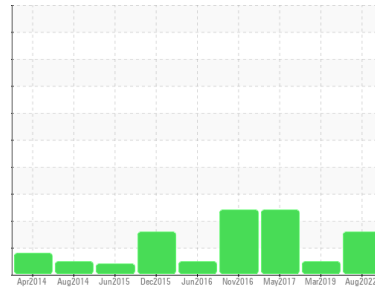


PROBLEM SUMMARY

Sample Rating Trend



ISO



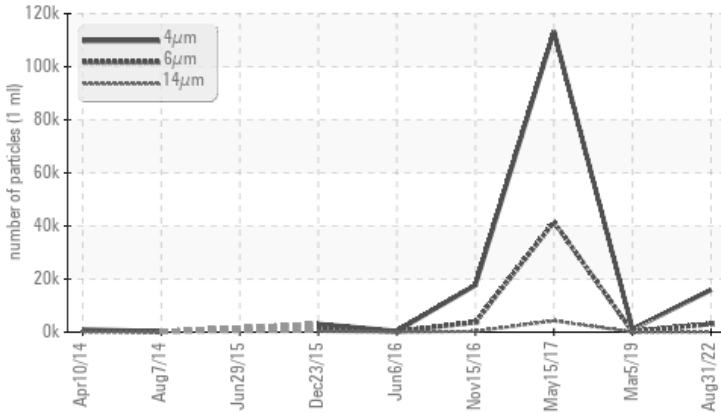
Machine Id
KAESER SFC 30ST 3910707 (S/N 1046)

Component
Compressor

Fluid
KAESER SIGMA (OEM) M-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	NORMAL	ABNORMAL
Particles >6µm	ASTM D7647	>1300	▲ 3076	183	▲ 41470
Particles >14µm	ASTM D7647	>80	▲ 120	23	▲ 4275
Particles >21µm	ASTM D7647	>20	▲ 30	11	▲ 1234
Oil Cleanliness	ISO 4406 (c)	>--/17/13	▲ 21/19/14	15/12	▲ 23/19

Customer Id: EBENOR
Sample No.: KCP37364
Lab Number: 05638107
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

05 Mar 2019 Diag: Doug Bogart

NORMAL



Resample at the next service interval to monitor. All 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



15 May 2017 Diag: Doug Bogart

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



15 Nov 2016 Diag: Don Baldrige

ISO



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 acceptable for the time in service.

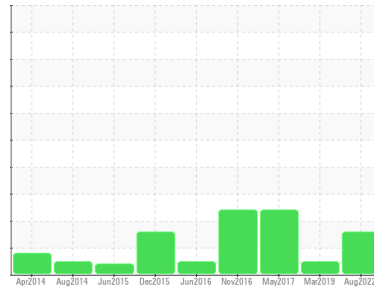
view report



Machine Id
KAESER SFC 30ST 3910707 (S/N 1046)

Component
Compressor

Fluid
KAESER SIGMA (OEM) M-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		KCP37364	KCP12920	KCP01376
Sample Date		31 Aug 2022	05 Mar 2019	15 May 2017
Machine Age	hrs	67397	57465	45600
Oil Age	hrs	6301	0	1752
Oil Changed		Changed	N/A	Not Changd
Sample Status		ABNORMAL	NORMAL	ABNORMAL

WEAR METALS

method	limit/base	current	history 1	history 2
Iron	ppm ASTM D5185m >50	0	0	9
Chromium	ppm ASTM D5185m >10	0	0	0
Nickel	ppm ASTM D5185m >3	0	0	<1
Titanium	ppm ASTM D5185m >3	0	0	0
Silver	ppm ASTM D5185m >2	<1	0	0
Aluminum	ppm ASTM D5185m >10	0	<1	<1
Lead	ppm ASTM D5185m >10	<1	0	0
Copper	ppm ASTM D5185m >50	8	3	6
Tin	ppm ASTM D5185m >10	<1	0	0
Antimony	ppm ASTM D5185m	---	0	<1
Vanadium	ppm ASTM D5185m	0	0	0
Cadmium	ppm ASTM D5185m	0	0	<1

ADDITIVES

method	limit/base	current	history 1	history 2
Boron	ppm ASTM D5185m 0	<1	0	0
Barium	ppm ASTM D5185m 90	0	0	2
Molybdenum	ppm ASTM D5185m 0	0	0	0
Manganese	ppm ASTM D5185m	0	0	1
Magnesium	ppm ASTM D5185m 100	0	0	42
Calcium	ppm ASTM D5185m 0	0	0	<1
Phosphorus	ppm ASTM D5185m 0	0	<1	12
Zinc	ppm ASTM D5185m 0	0	0	18
Sulfur	ppm ASTM D5185m 23500	15683	12336	16788

CONTAMINANTS

method	limit/base	current	history 1	history 2
Silicon	ppm ASTM D5185m >25	<1	<1	<1
Sodium	ppm ASTM D5185m	0	<1	15
Potassium	ppm ASTM D5185m >20	0	<1	9
Water	% ASTM D6304 >0.05	0.005	0.005	0.021
ppm Water	ppm ASTM D6304 >500	53.1	50	210

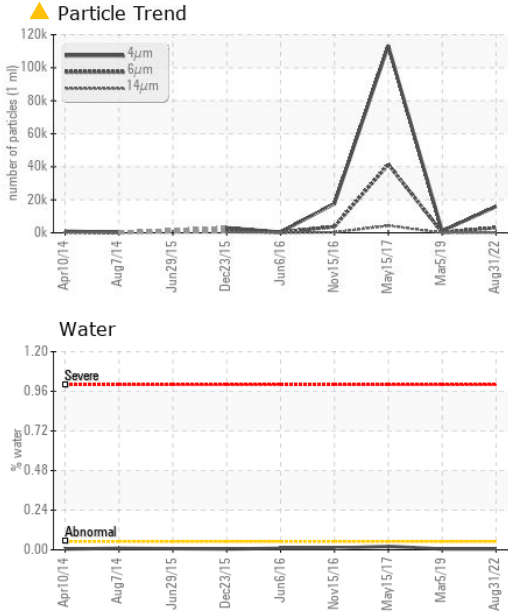
FLUID CLEANLINESS

method	limit/base	current	history 1	history 2
Particles >4µm	ASTM D7647	15903	1107	113253
Particles >6µm	ASTM D7647 >1300	▲ 3076	183	▲ 41470
Particles >14µm	ASTM D7647 >80	▲ 120	23	▲ 4275
Particles >21µm	ASTM D7647 >20	▲ 30	11	▲ 1234
Particles >38µm	ASTM D7647 >4	1	1	▲ 105
Particles >71µm	ASTM D7647 >3	0	0	▲ 11
Oil Cleanliness	ISO 4406 (c) >--/17/13	▲ 21/19/14	15/12	▲ 23/19

FLUID DEGRADATION

method	limit/base	current	history 1	history 2
Acid Number (AN)	mg KOH/g ASTM D8045 1.0	0.43	0.443	0.314

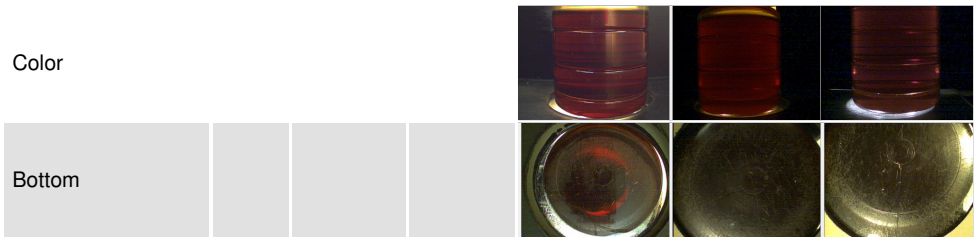
OIL ANALYSIS REPORT



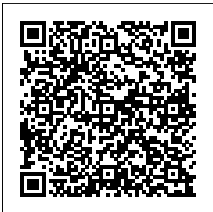
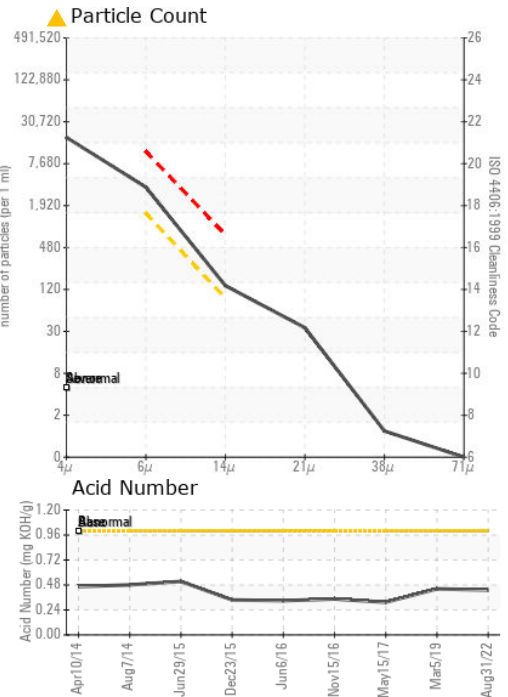
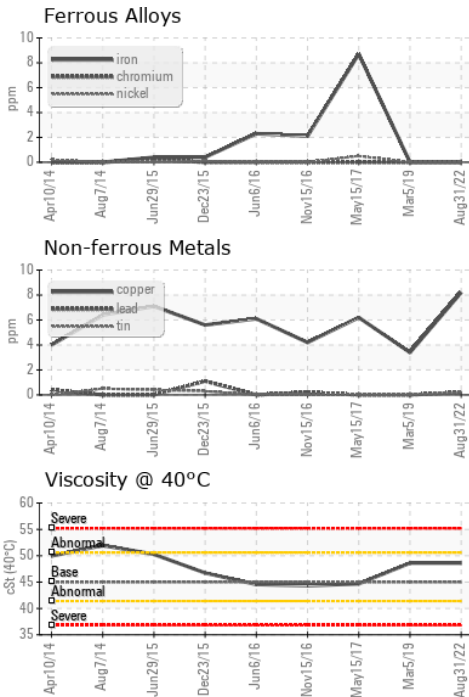
VISUAL	method	limit/base	current	history 1	history 2
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	VLITE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance	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	45	48.61	44.68

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



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : KCP37364 **Received** : 09 Sep 2022
Lab Number : 05638107 **Diagnosed** : 13 Sep 2022
Unique Number : 10127637 **Diagnostician** : Don Baldrige

EBERSPACHER
 6801B 5TH ST
 NORTHPORT, AL
 USA 35476
 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: