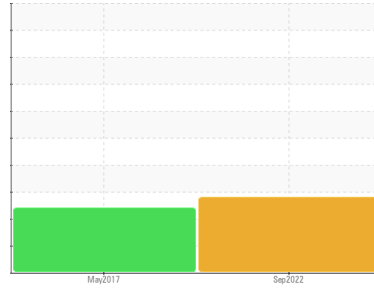


PROBLEM SUMMARY

Sample Rating Trend



ISO



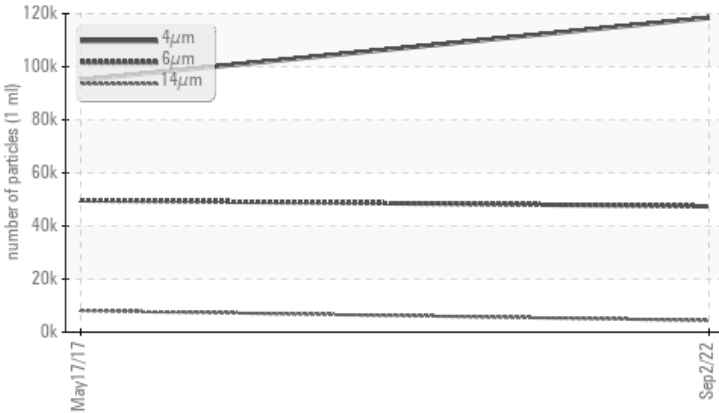
Machine Id
KAESER AC SFC 11 3718017 (S/N 1008)

Component
Compressor

Fluid
KAESER SIGMA (OEM) M-460 (--- QTS)

COMPONENT CONDITION SUMMARY

▲ Particle Trend



RECOMMENDATION

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	ABNORMAL	---
Particles >6µm	ASTM D7647	>1300	▲ 47386	▲ 49690	---	---
Particles >14µm	ASTM D7647	>80	▲ 4389	▲ 8083	---	---
Particles >21µm	ASTM D7647	>20	▲ 985	▲ 2099	---	---
Particles >38µm	ASTM D7647	>4	▲ 81	▲ 51	---	---
Particles >71µm	ASTM D7647	>3	▲ 7	▲ 4	---	---
Oil Cleanliness	ISO 4406 (c)	>17/13	▲ 23/19	▲ 23/20	---	---
Debris	scalar	*Visual	NONE	▲ MODER	LIGHT	---

Customer Id: EETWIN
Sample No.: KCP29285
Lab Number: 05646641
Test Package: IND 2



To manage this report scan the QR code

To discuss the diagnosis or test data:
Jonathan Hester +1 919-379-4092 x4092
jhester@wearcheckusa.com

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

17 May 2017 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 at the top-end of the recommended limit. The condition of the oil is suitable for further service.

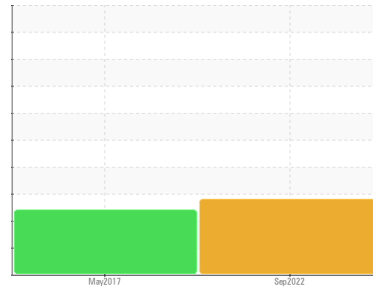
view report



Machine Id
KAESER AC SFC 11 3718017 (S/N 1008)

Component
Compressor

Fluid
KAESER SIGMA (OEM) M-460 (--- QTS)



DIAGNOSIS

▲ Recommendation

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. Moderate concentration of visible dirt/debris 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			KCP29285	KCP01054	---
Sample Date			02 Sep 2022	17 May 2017	---
Machine Age	hrs		21092	12346	---
Oil Age	hrs		0	0	---
Oil Changed			Changed	Changed	---
Sample Status			ABNORMAL	ABNORMAL	---

WEAR METALS

	method	limit/base	current	history 1	history 2
Iron	ppm	ASTM D5185m >50	<1	7	---
Chromium	ppm	ASTM D5185m >10	0	0	---
Nickel	ppm	ASTM D5185m >3	0	<1	---
Titanium	ppm	ASTM D5185m >3	0	0	---
Silver	ppm	ASTM D5185m >2	0	0	---
Aluminum	ppm	ASTM D5185m >10	0	0	---
Lead	ppm	ASTM D5185m >10	0	0	---
Copper	ppm	ASTM D5185m >50	34	26	---
Tin	ppm	ASTM D5185m >10	0	0	---
Antimony	ppm	ASTM D5185m	---	0	---
Vanadium	ppm	ASTM D5185m	0	0	---
Cadmium	ppm	ASTM D5185m	0	0	---

ADDITIVES

	method	limit/base	current	history 1	history 2
Boron	ppm	ASTM D5185m 0	0	0	---
Barium	ppm	ASTM D5185m 90	0	0	---
Molybdenum	ppm	ASTM D5185m 0	0	0	---
Manganese	ppm	ASTM D5185m	0	<1	---
Magnesium	ppm	ASTM D5185m 100	0	2	---
Calcium	ppm	ASTM D5185m 0	0	0	---
Phosphorus	ppm	ASTM D5185m 0	1	34	---
Zinc	ppm	ASTM D5185m 0	24	26	---
Sulfur	ppm	ASTM D5185m 23500	19671	18644	---

CONTAMINANTS

	method	limit/base	current	history 1	history 2
Silicon	ppm	ASTM D5185m >25	<1	<1	---
Sodium	ppm	ASTM D5185m	<1	<1	---
Potassium	ppm	ASTM D5185m >20	0	0	---
Water	%	ASTM D6304 >0.05	0.008	0.007	---
ppm Water	ppm	ASTM D6304 >500	86.0	70	---

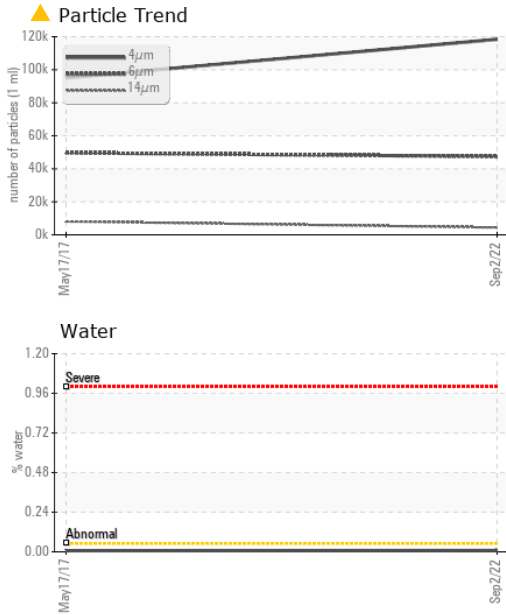
FLUID CLEANLINESS

	method	limit/base	current	history 1	history 2
Particles >4µm	ASTM D7647		118433	95050	---
Particles >6µm	ASTM D7647	>1300	▲ 47386	▲ 49690	---
Particles >14µm	ASTM D7647	>80	▲ 4389	▲ 8083	---
Particles >21µm	ASTM D7647	>20	▲ 985	▲ 2099	---
Particles >38µm	ASTM D7647	>4	▲ 81	▲ 51	---
Particles >71µm	ASTM D7647	>3	▲ 7	▲ 4	---
Oil Cleanliness	ISO 4406 (c)	>17/13	▲ 23/19	▲ 23/20	---

FLUID DEGRADATION

	method	limit/base	current	history 1	history 2
Acid Number (AN)	mg KOH/g	ASTM D8045 1.0	0.33	0.335	---

OIL ANALYSIS REPORT

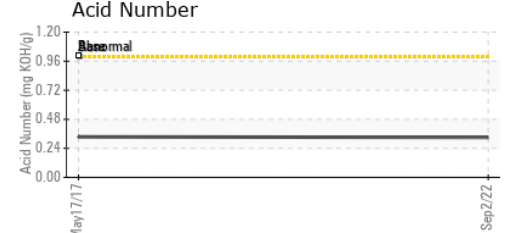
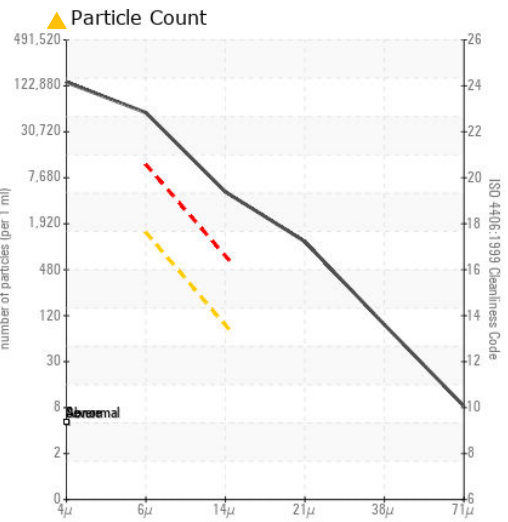
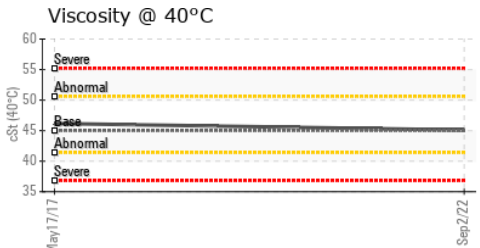
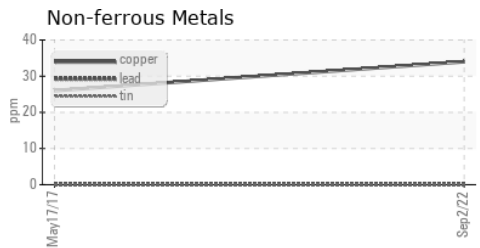
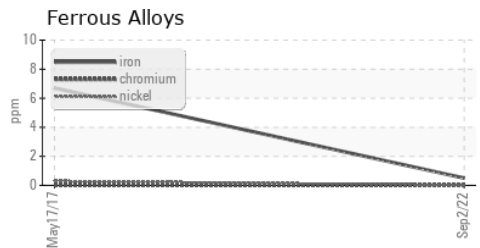


VISUAL	method	limit/base	current	history 1	history 2
White Metal	scalar	*Visual	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	---
Precipitate	scalar	*Visual	NONE	NONE	---
Silt	scalar	*Visual	NONE	NONE	---
Debris	scalar	*Visual	NONE	▲ MODER	LIGHT
Sand/Dirt	scalar	*Visual	NONE	NONE	---
Appearance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

FLUID PROPERTIES	method	limit/base	current	history 1	history 2
Visc @ 40°C	cSt	ASTM D445	45	45.1	46.18

SAMPLE IMAGES	method	limit/base	current	history 1	history 2
Color					
Bottom					

GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : KCP29285 **Received** : 20 Sep 2022
Lab Number : 05646641 **Diagnosed** : 22 Sep 2022
Unique Number : 10141180 **Diagnostician** : Jonathan Hester
Test Package : IND 2 (Additional Tests: KF, PrtCount)

E & E TOOL
 100 INTERNATIONAL WAY
 WINSTED, CT
 USA 06098
 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)