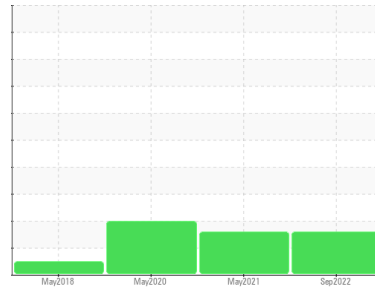


PROBLEM SUMMARY

Sample Rating Trend



ISO



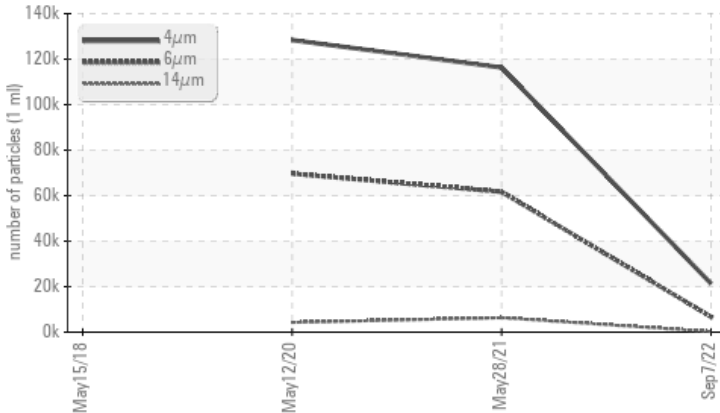
Machine Id
KAESER SK 26 2031284 (S/N 1274)

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	ABNORMAL	ABNORMAL
Particles >6µm	ASTM D7647	>1300	▲ 6742	▲ 61683	▲ 69664
Particles >14µm	ASTM D7647	>80	▲ 241	▲ 6337	▲ 4267
Particles >21µm	ASTM D7647	>20	▲ 23	▲ 918	▲ 635
Oil Cleanliness	ISO 4406 (c)	>--/17/13	▲ 22/20/15	▲ 23/20	▲ 23/19

Customer Id: CARBALKCP
Sample No.: KCP46332
Lab Number: 05646576
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

28 May 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



12 May 2020 Diag: Doug Bogart

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.

view report



15 May 2018 Diag: Jonathan Hester

NORMAL



Resample at the next service interval to monitor. We were unable to perform a particle count on this sample. All component wear rates are normal. 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.

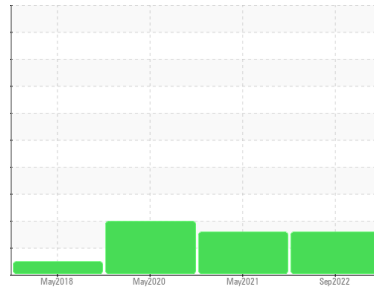
view report





Machine Id
KAESER SK 26 2031284 (S/N 1274)

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			KCP46332	KCP32823	KCP25420
Sample Date			07 Sep 2022	28 May 2021	12 May 2020
Machine Age	hrs		61461	57473	54017
Oil Age	hrs		3988	3500	6452
Oil Changed			Changed	Changed	Changed
Sample Status			ABNORMAL	ABNORMAL	ABNORMAL

WEAR METALS

	method	limit/base	current	history 1	history 2
Iron	ppm ASTM D5185m	>50	<1	1	3
Chromium	ppm ASTM D5185m	>10	0	0	0
Nickel	ppm ASTM D5185m	>3	0	0	0
Titanium	ppm ASTM D5185m	>3	0	0	0
Silver	ppm ASTM D5185m	>2	0	<1	0
Aluminum	ppm ASTM D5185m	>10	<1	0	<1
Lead	ppm ASTM D5185m	>10	0	<1	0
Copper	ppm ASTM D5185m	>50	8	8	16
Tin	ppm ASTM D5185m	>10	0	<1	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	0	<1
Barium	ppm ASTM D5185m	90	0	0	0
Molybdenum	ppm ASTM D5185m	0	0	0	0
Manganese	ppm ASTM D5185m		<1	<1	<1
Magnesium	ppm ASTM D5185m	100	16	16	16
Calcium	ppm ASTM D5185m	0	0	0	<1
Phosphorus	ppm ASTM D5185m	0	1	6	2
Zinc	ppm ASTM D5185m	0	60	37	49
Sulfur	ppm ASTM D5185m	23500	20901	16974	16107

CONTAMINANTS

	method	limit/base	current	history 1	history 2
Silicon	ppm ASTM D5185m	>25	0	<1	1
Sodium	ppm ASTM D5185m		7	3	13
Potassium	ppm ASTM D5185m	>20	0	<1	1
Water	% ASTM D6304	>0.05	0.016	0.011	0.014
ppm Water	ppm ASTM D6304	>500	165.4	119.7	143.7

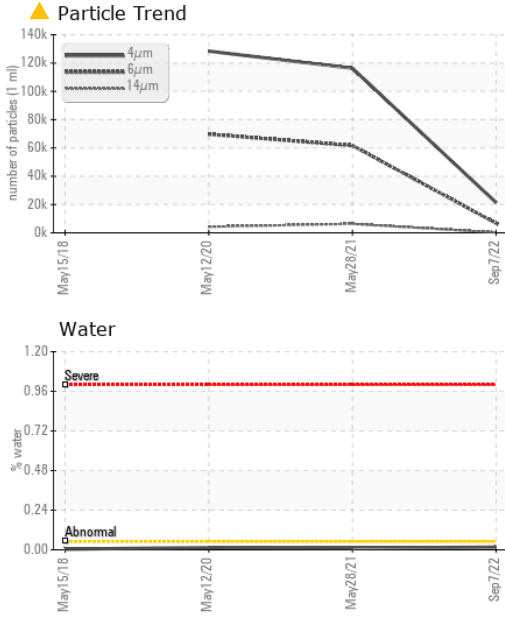
FLUID CLEANLINESS

	method	limit/base	current	history 1	history 2
Particles >4µm	ASTM D7647		21364	116310	128384
Particles >6µm	ASTM D7647	>1300	▲ 6742	▲ 61683	▲ 69664
Particles >14µm	ASTM D7647	>80	▲ 241	▲ 6337	▲ 4267
Particles >21µm	ASTM D7647	>20	▲ 23	▲ 918	▲ 635
Particles >38µm	ASTM D7647	>4	0	▲ 29	▲ 32
Particles >71µm	ASTM D7647	>3	0	1	▲ 9
Oil Cleanliness	ISO 4406 (c)	>--/17/13	▲ 22/20/15	▲ 23/20	▲ 23/19

FLUID DEGRADATION

	method	limit/base	current	history 1	history 2
Acid Number (AN)	mg KOH/g ASTM D8045	1.0	0.42	0.410	0.390

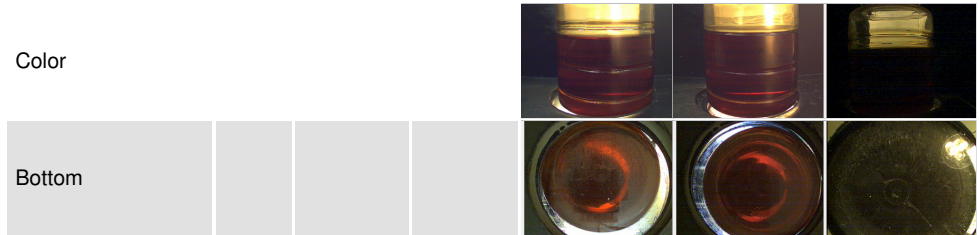
OIL ANALYSIS REPORT



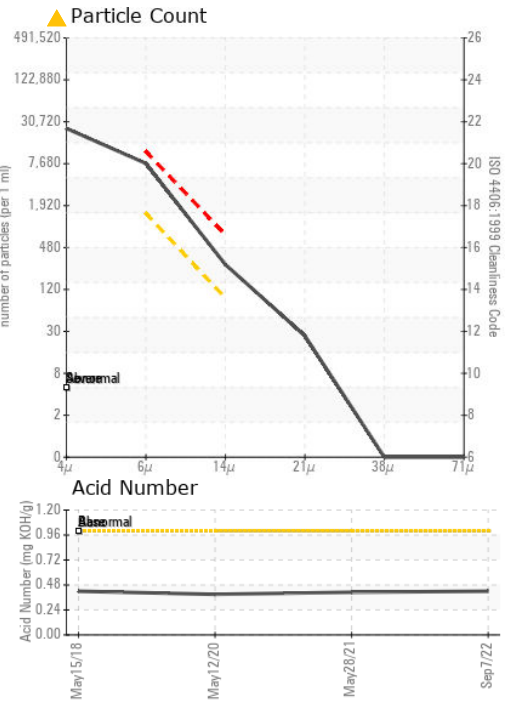
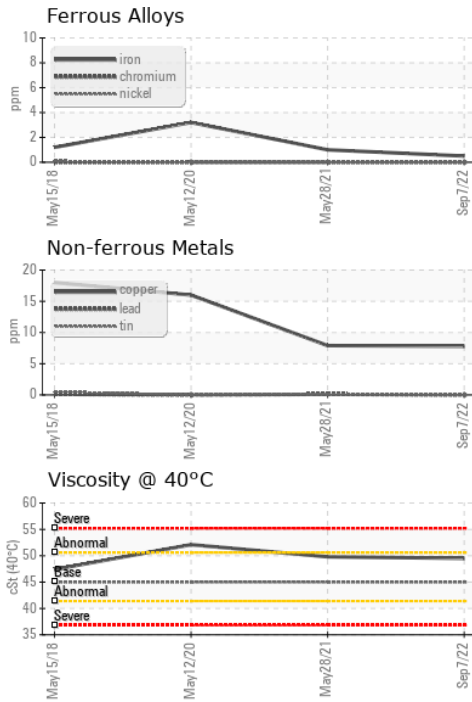
PARAMETER	method	limit/base	current	history 1	history 2
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	LIGHT	LIGHT
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance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

PARAMETER	method	limit/base	current	history 1	history 2
Visc @ 40°C	cSt	ASTM D445	45	49.5	49.8

PARAMETER	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. : KCP46332 **Received** : 20 Sep 2022
Lab Number : 05646576 **Diagnosed** : 21 Sep 2022
Unique Number : 10141115 **Diagnostician** : Jonathan Hester
Test Package : IND 2 (Additional Tests: KF, PrtCount)

CAREFREE KITCHENS
 2901 STRICKLAND ST
 BALTIMORE, MD
 USA 21223
 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: