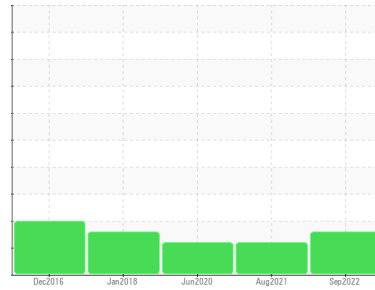


PROBLEM SUMMARY

Sample Rating Trend



ISO



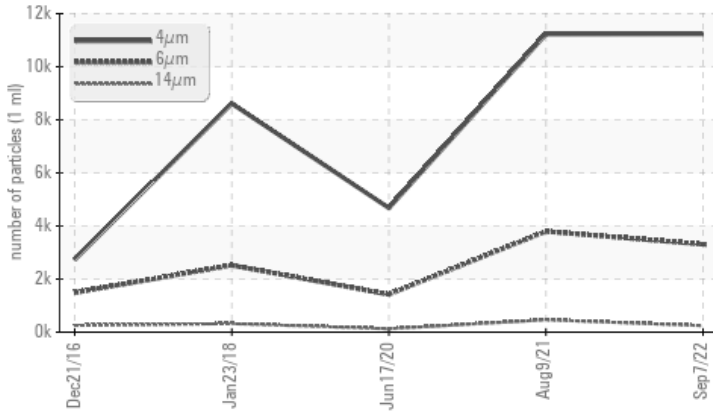
Machine Id
KAESER SK 19 2029192 (S/N 1515)

Component
Compressor

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

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	ATTENTION
Particles >6µm	ASTM D7647	>1300	▲ 3311	▲ 3794	▲ 1421
Particles >14µm	ASTM D7647	>80	▲ 243	▲ 465	▲ 126
Particles >21µm	ASTM D7647	>20	▲ 45	▲ 108	▲ 38
Oil Cleanliness	ISO 4406 (c)	>--/17/13	▲ 21/19/15	▲ 19/16	▲ 18/14

Customer Id: SAIDEN
Sample No.: KCP41314
Lab Number: 05644904
Test Package: IND 2



To manage this report scan the QR code

To discuss the diagnosis or test data:
Angela Borella +1 800-237-1369
angela.borella@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

09 Aug 2021 Diag: Jonathan Hester

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 suitable for further service.

[view report](#)



17 Jun 2020 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 moderate 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 Jan 2018 Diag: Angela Borella

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 suitable for further service.

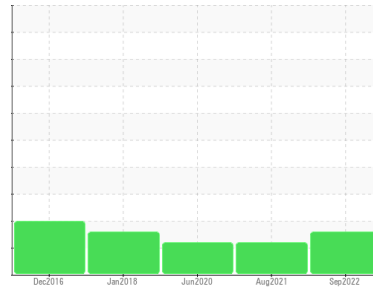
[view report](#)



Machine Id
KAESER SK 19 2029192 (S/N 1515)

Component
Compressor

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



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.

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			KCP41314	KCP35635	KCP10687
Sample Date			07 Sep 2022	09 Aug 2021	17 Jun 2020
Machine Age	hrs		23094	22051	20367
Oil Age	hrs		1043	1683	1842
Oil Changed			Changed	Changed	Changed
Sample Status			ABNORMAL	ABNORMAL	ATTENTION

WEAR METALS

	method	limit/base	current	history 1	history 2
Iron	ppm ASTM D5185m	>50	<1	<1	<1
Chromium	ppm ASTM D5185m	>10	0	0	<1
Nickel	ppm ASTM D5185m	>3	0	0	0
Titanium	ppm ASTM D5185m	>3	0	0	0
Silver	ppm ASTM D5185m	>2	<1	<1	0
Aluminum	ppm ASTM D5185m	>10	<1	<1	<1
Lead	ppm ASTM D5185m	>10	0	0	0
Copper	ppm ASTM D5185m	>50	2	3	2
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	<1

ADDITIVES

	method	limit/base	current	history 1	history 2
Boron	ppm ASTM D5185m	0	0	16	0
Barium	ppm ASTM D5185m	90	7	0	2
Molybdenum	ppm ASTM D5185m	0	0	0	<1
Manganese	ppm ASTM D5185m		0	0	<1
Magnesium	ppm ASTM D5185m	100	65	50	58
Calcium	ppm ASTM D5185m	0	<1	0	0
Phosphorus	ppm ASTM D5185m	0	2	0	0
Zinc	ppm ASTM D5185m	0	4	2	6
Sulfur	ppm ASTM D5185m	23500	18023	19380	18700

CONTAMINANTS

	method	limit/base	current	history 1	history 2
Silicon	ppm ASTM D5185m	>25	<1	0	<1
Sodium	ppm ASTM D5185m		22	16	10
Potassium	ppm ASTM D5185m	>20	0	<1	0
Water	% ASTM D6304	>0.05	0.015	0.020	0.015
ppm Water	ppm ASTM D6304	>500	150.3	206.6	153.8

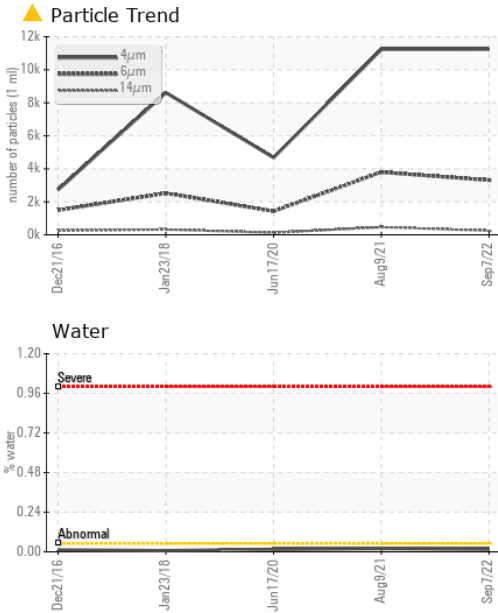
FLUID CLEANLINESS

	method	limit/base	current	history 1	history 2
Particles >4µm	ASTM D7647		11235	11227	4678
Particles >6µm	ASTM D7647	>1300	▲ 3311	▲ 3794	▲ 1421
Particles >14µm	ASTM D7647	>80	▲ 243	▲ 465	▲ 126
Particles >21µm	ASTM D7647	>20	▲ 45	▲ 108	▲ 38
Particles >38µm	ASTM D7647	>4	1	2	3
Particles >71µm	ASTM D7647	>3	0	0	0
Oil Cleanliness	ISO 4406 (c)	>--/17/13	▲ 21/19/15	▲ 19/16	▲ 18/14

FLUID DEGRADATION

	method	limit/base	current	history 1	history 2
Acid Number (AN)	mg KOH/g ASTM D8045	1.0	0.37	0.367	0.424

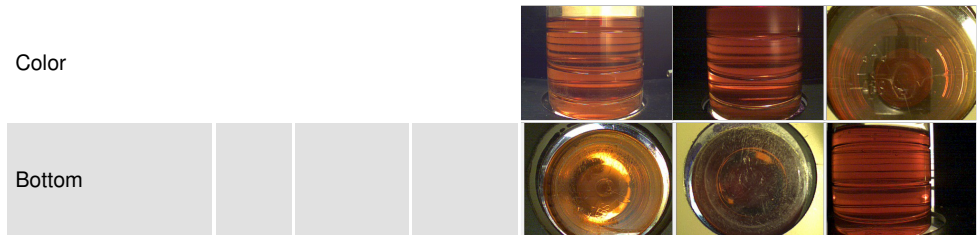
OIL ANALYSIS REPORT



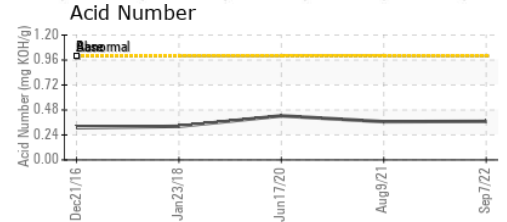
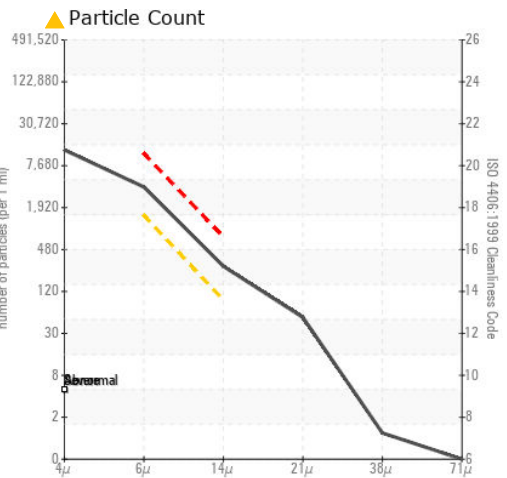
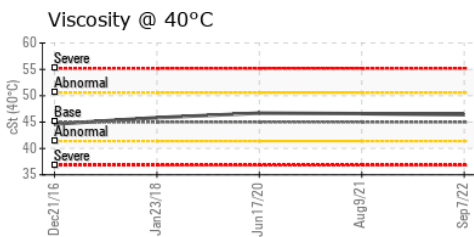
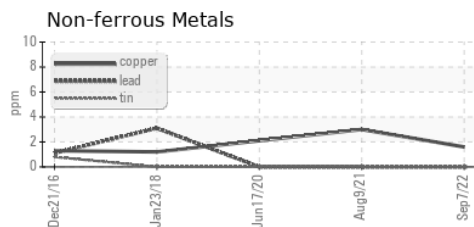
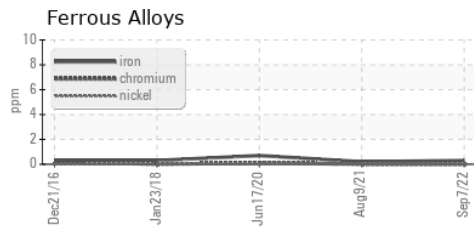
VISUAL	method	limit/base	current	history 1	history 2
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	VLITE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance	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	46.4	46.6

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



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : KCP41314 **Received** : 19 Sep 2022
Lab Number : 05644904 **Diagnosed** : 20 Sep 2022
Unique Number : 10139443 **Diagnostician** : Angela Borella
Test Package : IND 2 (Additional Tests: KF, PrtCount)

SAI DENVER B INC
 2201 S WABASH ST
 DENVER, CO
 USA 80231
 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: