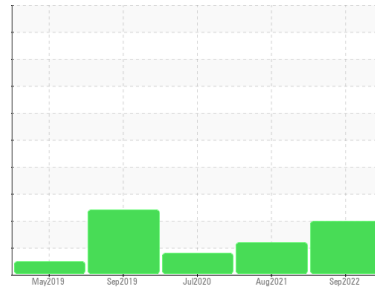


PROBLEM SUMMARY

Sample Rating Trend



ISO



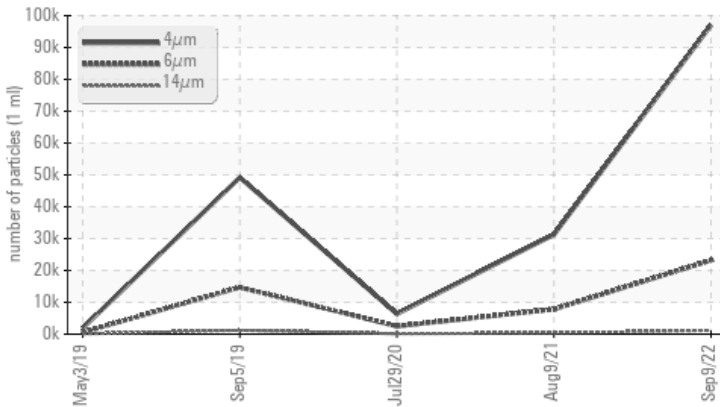
Machine Id
KAESER SFC 90ST 5859944 (S/N 1181)

Component
Compressor

Fluid
KAESER SIGMA (OEM) S-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	ASTM D7647	Standard	ABNORMAL	ABNORMAL	ATTENTION
Particles >6µm	ASTM D7647	>1300	▲ 23199	▲ 7820	▲ 2489
Particles >14µm	ASTM D7647	>80	▲ 1157	▲ 360	▲ 120
Particles >21µm	ASTM D7647	>20	▲ 264	▲ 87	24
Particles >38µm	ASTM D7647	>4	▲ 7	3	2
Oil Cleanliness	ISO 4406 (c)	>--/17/13	▲ 24/22/17	▲ 20/16	▲ 18/14

Customer Id: RINCHE
Sample No.: KCP46193
Lab Number: 05641624
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: 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



29 Jul 2020 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 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



05 Sep 2019 Diag: Jonathan Hester

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. Moderate concentration of visible dirt/debris present in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

view report



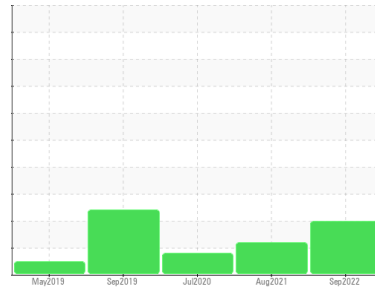
Machine Id
KAESER SFC 90ST 5859944 (S/N 1181)

Component

Compressor

Fluid

KAESER SIGMA (OEM) S-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			KCP46193	KCP36947	KCP10347
Sample Date			09 Sep 2022	09 Aug 2021	29 Jul 2020
Machine Age	hrs		44265	35864	27847
Oil Age	hrs		6000	4000	6000
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	<1	0
Nickel	ppm ASTM D5185m	>3	0	2	<1
Titanium	ppm ASTM D5185m	>3	0	0	0
Silver	ppm ASTM D5185m	>2	0	0	0
Aluminum	ppm ASTM D5185m	>10	<1	3	<1
Lead	ppm ASTM D5185m	>10	0	0	0
Copper	ppm ASTM D5185m	>50	5	4	6
Tin	ppm ASTM D5185m	>10	0	0	0
Antimony	ppm ASTM D5185m		---	0	0
Vanadium	ppm ASTM D5185m		0	0	<1
Cadmium	ppm ASTM D5185m		0	<1	0

ADDITIVES

	method	limit/base	current	history 1	history 2
Boron	ppm ASTM D5185m		0	18	0
Barium	ppm ASTM D5185m	90	<1	0	1
Molybdenum	ppm ASTM D5185m		0	<1	<1
Manganese	ppm ASTM D5185m		<1	<1	0
Magnesium	ppm ASTM D5185m	90	20	49	2
Calcium	ppm ASTM D5185m	2	<1	0	0
Phosphorus	ppm ASTM D5185m		3	0	2
Zinc	ppm ASTM D5185m		3	24	<1
Sulfur	ppm ASTM D5185m		13738	17946	12150

CONTAMINANTS

	method	limit/base	current	history 1	history 2
Silicon	ppm ASTM D5185m	>25	<1	<1	<1
Sodium	ppm ASTM D5185m		8	10	<1
Potassium	ppm ASTM D5185m	>20	4	19	2
Water	% ASTM D6304	>0.05	0.012	0.029	0.005
ppm Water	ppm ASTM D6304	>500	128.2	298.3	58.3

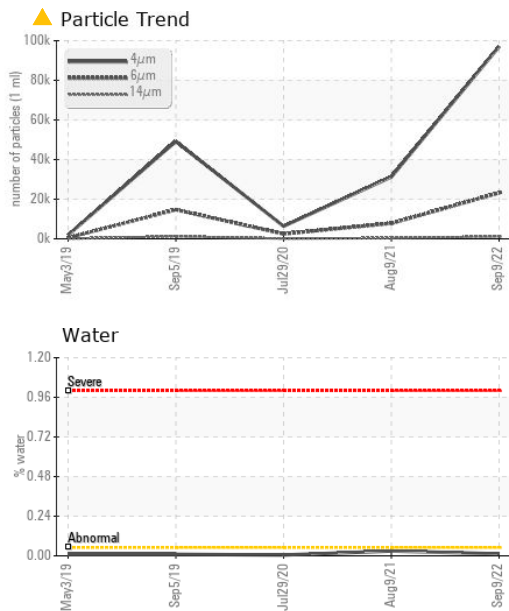
FLUID CLEANLINESS

	method	limit/base	current	history 1	history 2
Particles >4µm	ASTM D7647		97051	31251	6346
Particles >6µm	ASTM D7647	>1300	▲ 23199	▲ 7820	▲ 2489
Particles >14µm	ASTM D7647	>80	▲ 1157	▲ 360	▲ 120
Particles >21µm	ASTM D7647	>20	▲ 264	▲ 87	24
Particles >38µm	ASTM D7647	>4	▲ 7	3	2
Particles >71µm	ASTM D7647	>3	0	0	0
Oil Cleanliness	ISO 4406 (c)	>--/17/13	▲ 24/22/17	▲ 20/16	▲ 18/14

FLUID DEGRADATION

	method	limit/base	current	history 1	history 2
Acid Number (AN)	mg KOH/g ASTM D8045	0.4	0.36	0.333	0.392

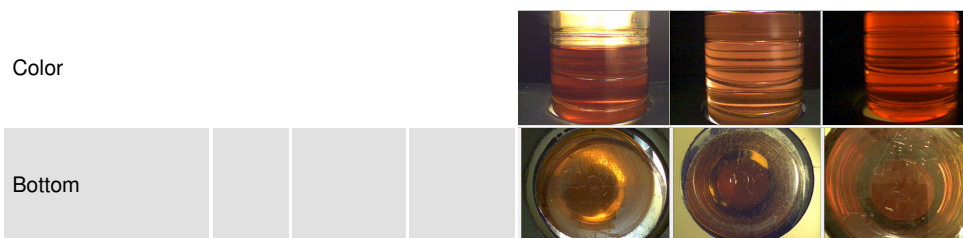
OIL ANALYSIS REPORT



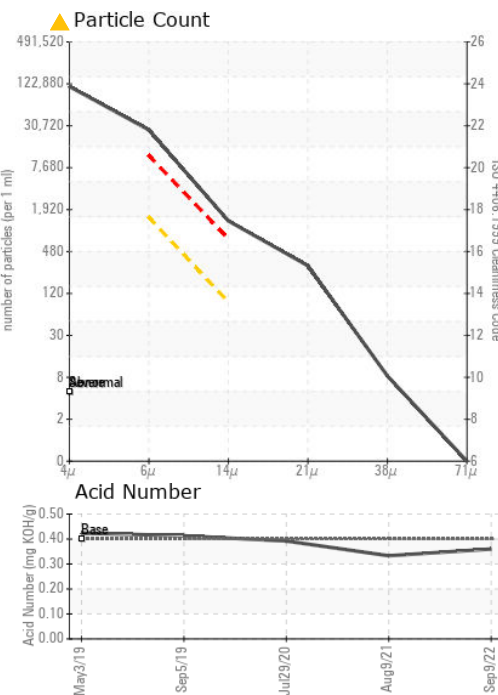
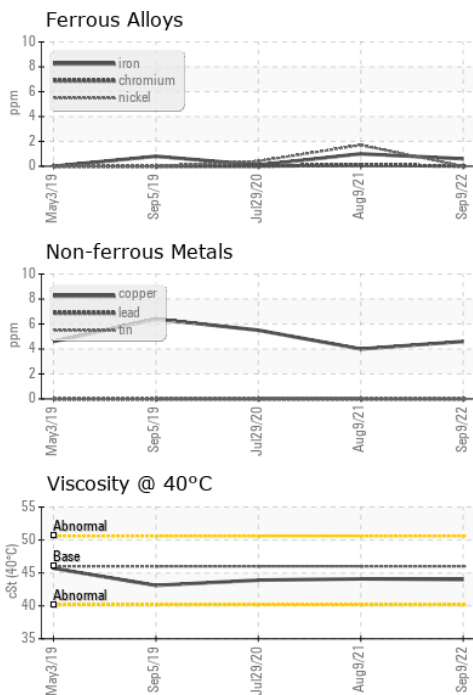
VISUAL	method	limit/base	current	history 1	history 2
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	LIGHT	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance	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 46	44.0	44.1	43.9

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. : KCP46193 **Received** : 14 Sep 2022
Lab Number : 05641624 **Diagnosed** : 15 Sep 2022
Unique Number : 10131154 **Diagnostician** : Angela Borella
Test Package : IND 2 (Additional Tests: KF, PrtCount)

RING CONTAINER
 1220 ARMORY RD
 CHESTER, SC
 USA 29706
 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)