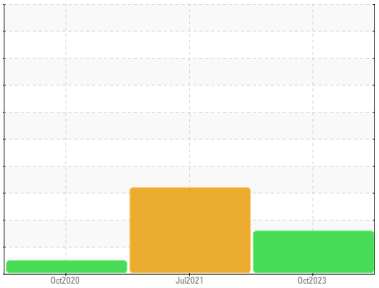
PROBLEM SUMMARY

Sample Rating Trend

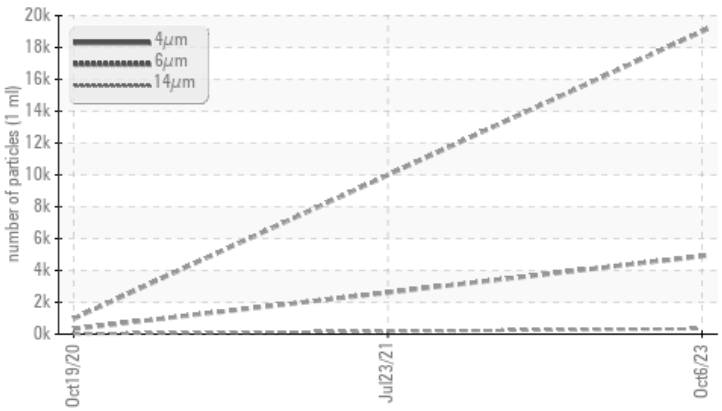


ISO

Machine Id
KAESER SX 3 6663780 (S/N 6846)
Component
Compressor
Fluid
SYNTHETIC (--- GAL)

COMPONENT CONDITION SUMMARY

Particle Trend



RECOMMENDATION

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.

PROBLEMATIC TEST RESULTS

Sample Status				ABNORMAL	ABNORMAL	NORMAL
Particles >6µm		ASTM D7647	>1300	▲ **4899**	---	329
Particles >14µm		ASTM D7647	>80	▲ **339**	---	21
Particles >21µm		ASTM D7647	>20	▲ **85**	---	6
Oil Cleanliness		ISO 4406 (c)	>--/17/13	▲ **21/19/16**	---	16/12

Customer Id: WATPATKC
Sample No.: KC107062
Lab Number: 05980414
Test Package: IND 2

To manage this report scan the QR code

To discuss the diagnosis or test data:
Doug Bogart +1 (800)237-1369 x4016
dougb@wearcheckusa.com

To change component or sample information:
Customer Service +1 1-800-237-1369
customerservice@wearcheck.com

RECOMMENDED ACTIONS

There are no recommended actions for this sample.

HISTORICAL DIAGNOSIS

23 Jul 2021 Diag: Don Baldridge

WATER

We advise that you stop the unit and follow the water drain-off procedure for this component. The filter change at the time of sampling has been noted. We recommend an early resample in 500 hours to monitor this condition. We were unable to perform a particle count due to a high concentration of particles present in this sample.All component wear rates are normal. There is a moderate amount of visible silt present in the sample. There is a light concentration of water present in the oil. The AN level is acceptable for this fluid.

view report

19 Oct 2020 Diag: Angela Borella

NORMAL

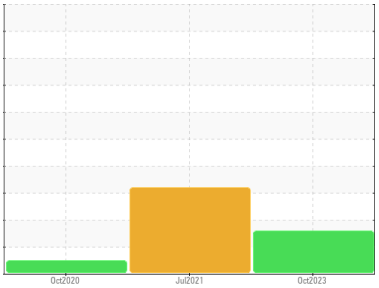
Resample at the next service interval to monitor.All component wear rates are normal. The amount and size of particulates present in the system are acceptable. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

view report

KAESER COMPRESSORS
Built for a lifetime.

OIL ANALYSIS REPORT

Sample Rating Trend



ISO

Machine Id
KAESER SX 3 6663780 (S/N 6846)
Component
Compressor
Fluid
SYNTHETIC (--- GAL)

DIAGNOSIS

Recommendation
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.

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	history1	history2
Sample Number		Client Info		**KC107062**	KC73419	KC91227
Sample Date		Client Info		**06 Oct 2023**	23 Jul 2021	19 Oct 2020
Machine Age	hrs	Client Info		**16539**	6947	3770
Oil Age	hrs	Client Info		**14440**	5000	2050
Oil Changed		Client Info		**Not Changd**	Not Changd	Not Changd
Sample Status				**ABNORMAL**	ABNORMAL	NORMAL

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>50	**0**	<1	<1
Chromium	ppm	ASTM D5185m	>10	**0**	0	0
Nickel	ppm	ASTM D5185m	>3	**<1**	0	0
Titanium	ppm	ASTM D5185m	>3	**0**	0	0
Silver	ppm	ASTM D5185m	>2	**<1**	<1	<1
Aluminum	ppm	ASTM D5185m	>10	**0**	1	0
Lead	ppm	ASTM D5185m	>10	**0**	<1	0
Copper	ppm	ASTM D5185m	>50	**22**	4	5
Tin	ppm	ASTM D5185m	>10	**<1**	<1	<1
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	history1	history2
Boron	ppm	ASTM D5185m		**0**	<1	<1
Barium	ppm	ASTM D5185m		**0**	0	0
Molybdenum	ppm	ASTM D5185m		**0**	0	0
Manganese	ppm	ASTM D5185m		**0**	<1	<1
Magnesium	ppm	ASTM D5185m		**3**	22	26
Calcium	ppm	ASTM D5185m		**<1**	0	0
Phosphorus	ppm	ASTM D5185m		**<1**	12	4
Zinc	ppm	ASTM D5185m		**29**	17	31

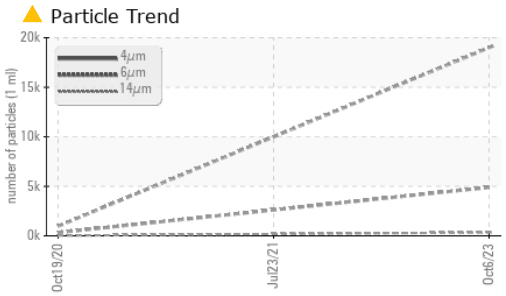
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	**<1**	1	<1
Sodium	ppm	ASTM D5185m		**0**	3	9
Potassium	ppm	ASTM D5185m	>20	**2**	<1	2
Water	%	ASTM D6304	>0.05	**0.005**	▲ 0.390	0.015
ppm Water	ppm	ASTM D6304	>500	**54.9**	▲ 3900	153.4

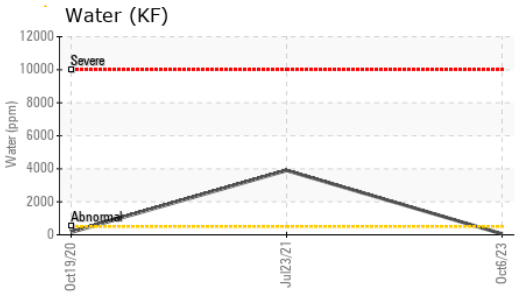
FLUID CLEANLINESS		method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647		**19009**	---	974
Particles >6µm		ASTM D7647	>1300	▲ **4899**	---	329
Particles >14µm		ASTM D7647	>80	▲ **339**	---	21
Particles >21µm		ASTM D7647	>20	▲ **85**	---	6
Particles >38µm		ASTM D7647	>4	**4**	---	0
Particles >71µm		ASTM D7647	>3	**0**	---	0
Oil Cleanliness		ISO 4406 (c)	>--/17/13	▲ **21/19/16**	---	16/12

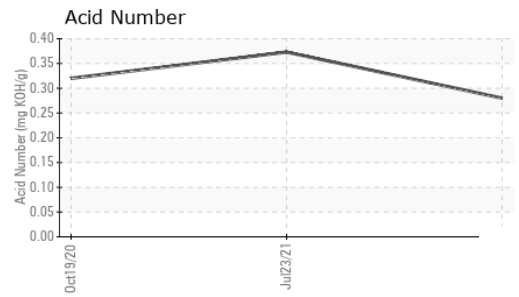
FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045		**0.28**	0.373	0.320

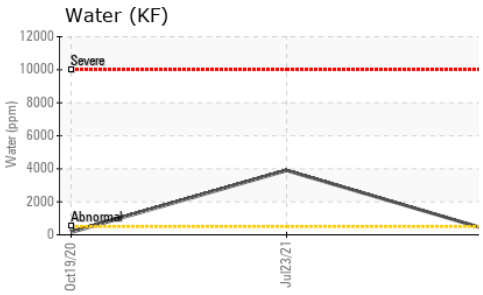
KAESER COMPRESSORS
Built for a lifetime.

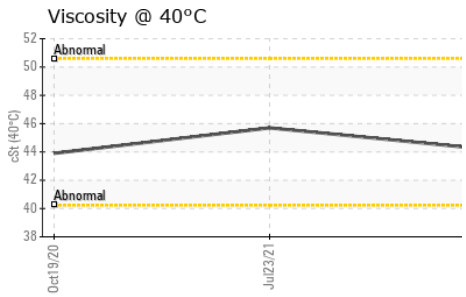
OIL ANALYSIS REPORT





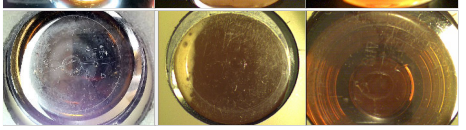




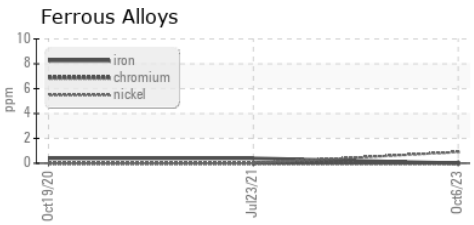


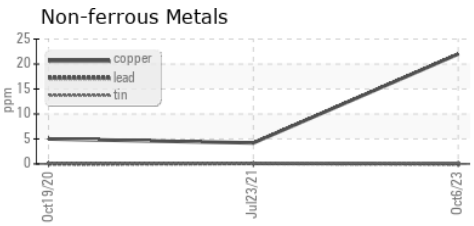
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	**NONE**	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	**NONE**	NONE	NONE
Precipitate	scalar	*Visual	NONE	**NONE**	NONE	NONE
Silt	scalar	*Visual	NONE	**NONE**	▲ MODER	NONE
Debris	scalar	*Visual	NONE	**NONE**	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	**NONE**	NONE	NONE
Appearance	scalar	*Visual	NORML	**NORML**	▲ HAZY	NORML
Odor	scalar	*Visual	NORML	**NORML**	NORML	NORML
Emulsified Water	scalar	*Visual	>0.05	**NEG**	▲ 0.2%	NEG
Free Water	scalar	*Visual		**NEG**	NEG	NEG

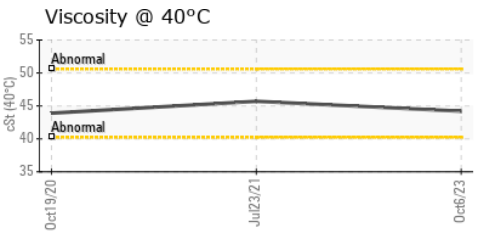
FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445		**44.2**	45.7	43.9

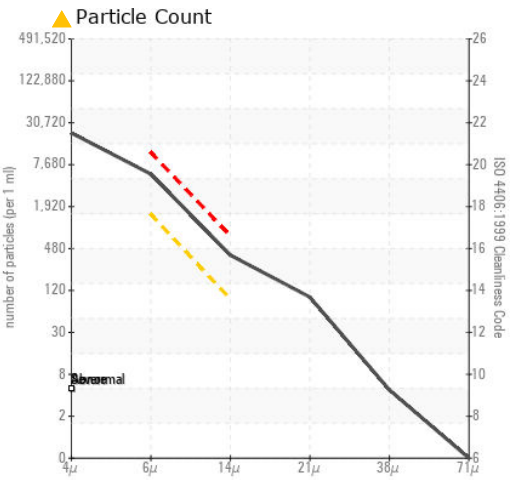
SAMPLE IMAGES	method	limit/base	current	history1	history2
Color					
Bottom					

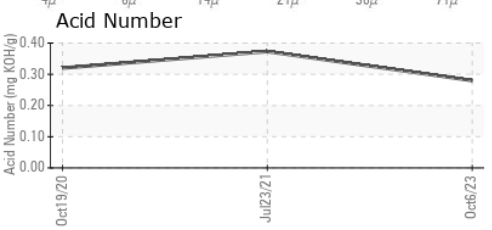
GRAPHS











Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : KC107062
Lab Number : 05980414
Unique Number : 10697709
Test Package : IND 2

Received : 16 Oct 2023
Diagnosed : 17 Oct 2023
Diagnostician : Doug Bogart

Certificate L2367

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)

WATCHTOWER
2891 ROUTE 22
PATTERSON, NY
US 12563
Contact: TONY ALVAREZ
aalvarez3516@gmail.com
T:
F: