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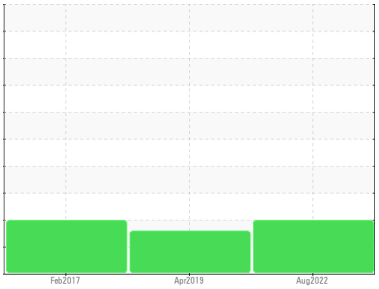
PROBLEM SUMMARY

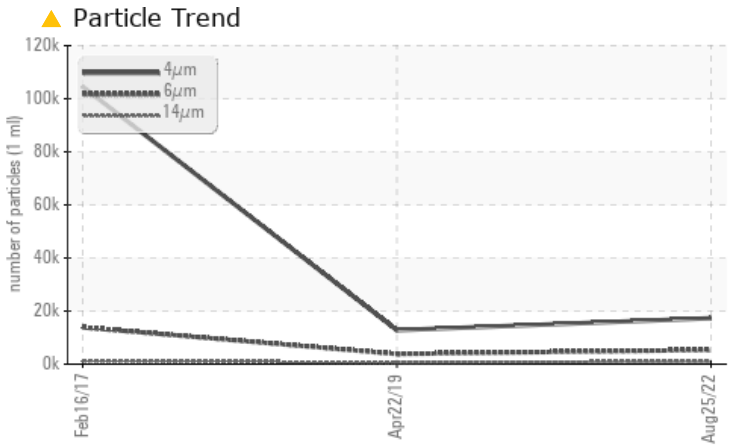
Sample Rating Trend



ISO

Machine Id
KAESER SX 7 3116500 (S/N 1364)
Component
Compressor
Fluid
KAESER SIGMA (OEM) M-460 (--- GAL)

COMPONENT CONDITION SUMMARY



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	▲ **5359**	▲ 3811	▲ 13846
Particles >14µm		ASTM D7647	>80	▲ **974**	▲ 674	▲ 1177
Particles >21µm		ASTM D7647	>20	▲ **358**	▲ 240	▲ 398
Particles >38µm		ASTM D7647	>4	▲ **19**	▲ 11	▲ 18
Oil Cleanliness		ISO 4406 (c)	>--/17/13	▲ **21/20/17**	▲ 19/17	▲ 21/17

Customer Id: CUMAVO
Sample No.: KCP49795
Lab Number: 05637139
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

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

22 Apr 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. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

view report

16 Feb 2017 Diag: Doug Bogart

ISO

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.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

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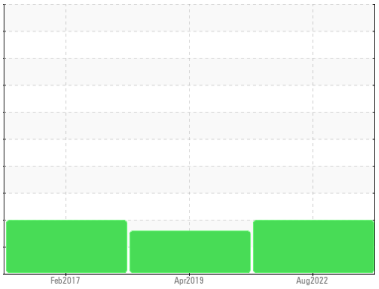
OIL ANALYSIS REPORT

Sample Rating Trend



ISO

Machine Id
KAESER SX 7 3116500 (S/N 1364)
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			**KCP49795**	KCP12512	KCP61391
Sample Date			**25 Aug 2022**	22 Apr 2019	16 Feb 2017
Machine Age	hrs		**7683**	7054	6867
Oil Age	hrs		**91**	51	28
Oil Changed			**Changed**	Changed	Not Changd
Sample Status			**ABNORMAL**	ABNORMAL	ABNORMAL

WEAR METALS		method	limit/base	current	history 1	history 2
Iron	ppm	ASTM D5185m	>50	**2**	3	5
Chromium	ppm	ASTM D5185m	>10	**0**	0	0
Nickel	ppm	ASTM D5185m	>3	**0**	<1	0
Titanium	ppm	ASTM D5185m	>3	**0**	0	0
Silver	ppm	ASTM D5185m	>2	**0**	0	0
Aluminum	ppm	ASTM D5185m	>10	**<1**	<1	<1
Lead	ppm	ASTM D5185m	>10	**2**	<1	0
Copper	ppm	ASTM D5185m	>50	**4**	5	6
Tin	ppm	ASTM D5185m	>10	**0**	0	5
Antimony	ppm	ASTM D5185m		**---**	2	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**	<1	1
Barium	ppm	ASTM D5185m	90	**2**	3	5
Molybdenum	ppm	ASTM D5185m	0	**0**	0	0
Manganese	ppm	ASTM D5185m		**<1**	<1	<1
Magnesium	ppm	ASTM D5185m	100	**54**	38	37
Calcium	ppm	ASTM D5185m	0	**2**	2	4
Phosphorus	ppm	ASTM D5185m	0	**7**	8	70
Zinc	ppm	ASTM D5185m	0	**38**	49	58
Sulfur	ppm	ASTM D5185m	23500	**18926**	24536	19929

CONTAMINANTS		method	limit/base	current	history 1	history 2
Silicon	ppm	ASTM D5185m	>25	**0**	<1	<1
Sodium	ppm	ASTM D5185m		**16**	11	13
Potassium	ppm	ASTM D5185m	>20	**2**	6	10
Water	%	ASTM D6304	>0.05	**0.029**	0.019	0.011
ppm Water	ppm	ASTM D6304	>500	**296.3**	190	110

FLUID CLEANLINESS		method	limit/base	current	history 1	history 2
Particles >4µm		ASTM D7647		**17308**	12802	104534
Particles >6µm		ASTM D7647	>1300	▲ **5359**	▲ 3811	▲ 13846
Particles >14µm		ASTM D7647	>80	▲ **974**	▲ 674	▲ 1177
Particles >21µm		ASTM D7647	>20	▲ **358**	▲ 240	▲ 398
Particles >38µm		ASTM D7647	>4	▲ **19**	▲ 11	▲ 18
Particles >71µm		ASTM D7647	>3	**0**	0	1
Oil Cleanliness		ISO 4406 (c)	>--/17/13	▲ **21/20/17**	▲ 19/17	▲ 21/17

FLUID DEGRADATION		method	limit/base	current	history 1	history 2
Acid Number (AN)	mg KOH/g	ASTM D8045	1.0	**0.38**	0.333	0.278

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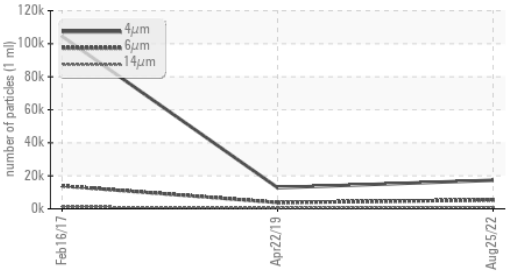
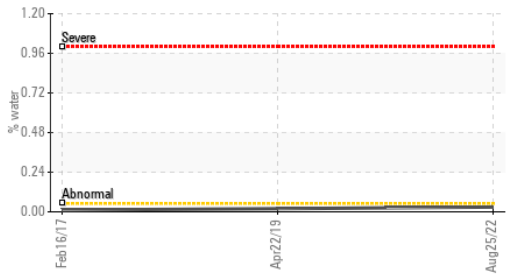
OIL ANALYSIS REPORT

Particle Trend

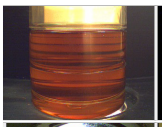
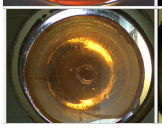


Water



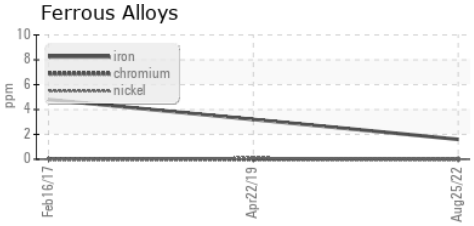
VISUAL		method	limit/base	current	history 1	history 2
White Metal	scalar	*Visual	NONE	**NONE**	NONE	VLITE
Yellow Metal	scalar	*Visual	NONE	**NONE**	NONE	NONE
Precipitate	scalar	*Visual	NONE	**NONE**	NONE	NONE
Silt	scalar	*Visual	NONE	**NONE**	NONE	NONE
Debris	scalar	*Visual	NONE	**NONE**	NONE	NONE
Sand/Dirt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

FLUID PROPERTIES		method	limit/base	current	history 1	history 2
Visc @ 40°C	cSt	ASTM D445	45	**46.0**	40.0	45.29

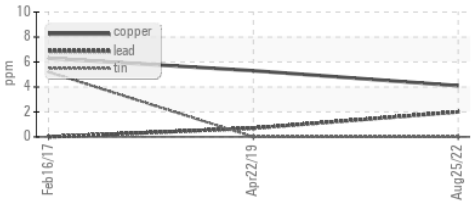
SAMPLE IMAGES	method	limit/base	current	history 1	history 2
Color					
Bottom					

GRAPHS

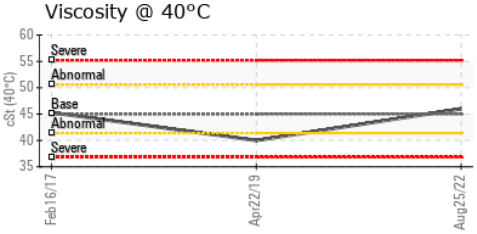
Ferrous Alloys



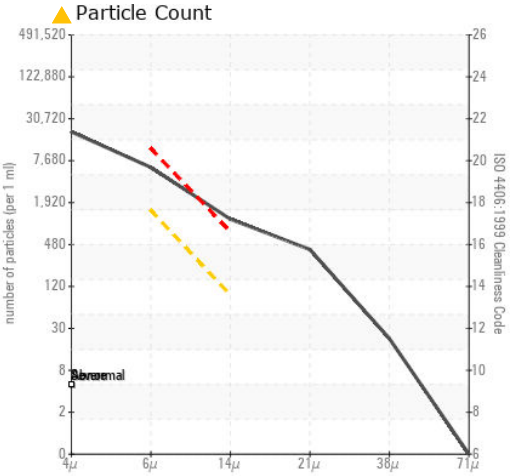
Non-ferrous Metals



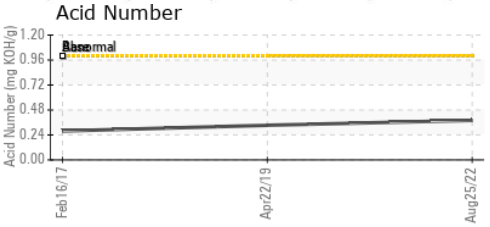
Viscosity @ 40°C



Particle Count



Acid Number



ANAB ACCREDITED TESTING LABORATORY
Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : KCP49795 **Received** : 08 Sep 2022
Lab Number : 05637139 **Diagnosed** : 09 Sep 2022
Unique Number : 10126669 **Diagnostician** : Doug Bogart
Test Package : IND 2 (Additional Tests: KF, PrtCount)

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)

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