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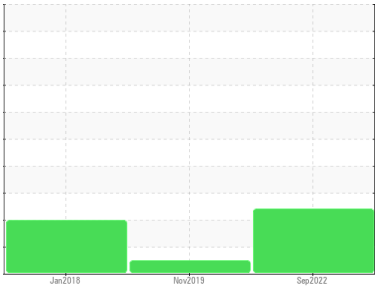
PROBLEM SUMMARY

Sample Rating Trend

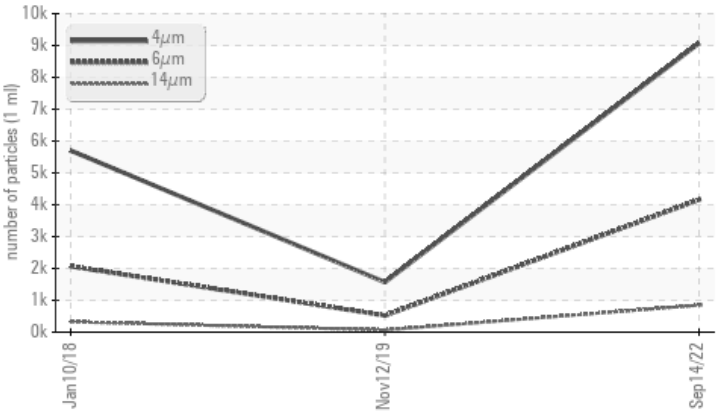


ISO

Machine Id
KAESER SM 11 1858983 (S/N 1437)
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**	NORMAL	ABNORMAL
Particles >6µm		ASTM D7647	>1300	▲ **4159**	521	▲ 2068
Particles >14µm		ASTM D7647	>80	▲ **846**	67	▲ 325
Particles >21µm		ASTM D7647	>20	▲ **265**	22	▲ 102
Particles >38µm		ASTM D7647	>4	▲ **31**	4	▲ 14
Particles >71µm		ASTM D7647	>3	▲ **2**	0	▲ 4
Oil Cleanliness		ISO 4406 (c)	>--/17/13	▲ **20/19/17**	16/13	▲ 18/16

Customer Id: LAZSUMIL
Sample No.: KCP46309
Lab Number: 05647878
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

12 Nov 2019 Diag: Jonathan Hester

NORMAL

Resample at the next service interval to monitor.All component wear rates are normal. There is no indication of any contamination in the component. The amount and size of particulates present in the system is acceptable. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

view report

10 Jan 2018 Diag: Doug Bogart

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 acceptable for the time in service.

view report

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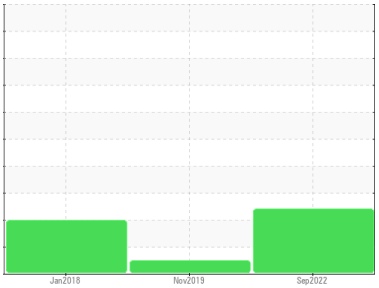
OIL ANALYSIS REPORT

Sample Rating Trend



ISO

Machine Id
KAESER SM 11 1858983 (S/N 1437)
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			**KCP46309**	KCP23659	KCP03656
Sample Date			**14 Sep 2022**	12 Nov 2019	10 Jan 2018
Machine Age	hrs		**27723**	25281	22192
Oil Age	hrs		**2500**	4000	0
Oil Changed			**Changed**	Changed	Changed
Sample Status			**ABNORMAL**	NORMAL	ABNORMAL

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	0
Nickel	ppm	ASTM D5185m	>3	**0**	<1	0
Titanium	ppm	ASTM D5185m	>3	**0**	0	0
Silver	ppm	ASTM D5185m	>2	**<1**	0	0
Aluminum	ppm	ASTM D5185m	>10	**0**	0	0
Lead	ppm	ASTM D5185m	>10	**0**	<1	<1
Copper	ppm	ASTM D5185m	>50	**7**	9	19
Tin	ppm	ASTM D5185m	>10	**<1**	0	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**	<1	0
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	**18**	22	4
Calcium	ppm	ASTM D5185m	0	**0**	0	0
Phosphorus	ppm	ASTM D5185m	0	**<1**	2	51
Zinc	ppm	ASTM D5185m	0	**11**	11	10
Sulfur	ppm	ASTM D5185m	23500	**22357**	4905	19306

CONTAMINANTS		method	limit/base	current	history 1	history 2
Silicon	ppm	ASTM D5185m	>25	**<1**	1	3
Sodium	ppm	ASTM D5185m		**2**	6	1
Potassium	ppm	ASTM D5185m	>20	**<1**	2	2
Water	%	ASTM D6304	>0.05	**0.016**	0.012	0.005
ppm Water	ppm	ASTM D6304	>500	**160.0**	127.9	50

FLUID CLEANLINESS		method	limit/base	current	history 1	history 2
Particles >4µm		ASTM D7647		**9072**	1569	5702
Particles >6µm		ASTM D7647	>1300	▲ **4159**	521	▲ 2068
Particles >14µm		ASTM D7647	>80	▲ **846**	67	▲ 325
Particles >21µm		ASTM D7647	>20	▲ **265**	22	▲ 102
Particles >38µm		ASTM D7647	>4	▲ **31**	4	▲ 14
Particles >71µm		ASTM D7647	>3	▲ **2**	0	▲ 4
Oil Cleanliness		ISO 4406 (c)	>--/17/13	▲ **20/19/17**	16/13	▲ 18/16

FLUID DEGRADATION		method	limit/base	current	history 1	history 2
Acid Number (AN)	mg KOH/g	ASTM D8045	1.0	**0.43**	0.376	0.417

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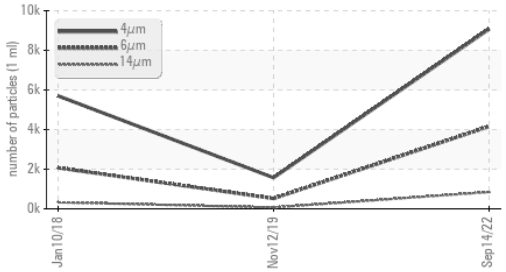
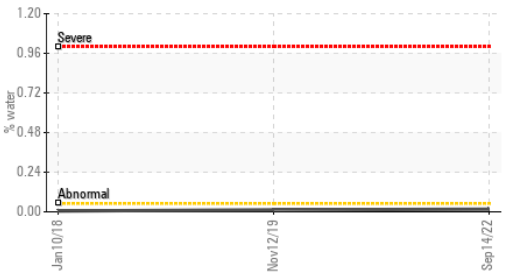
OIL ANALYSIS REPORT

Particle Trend

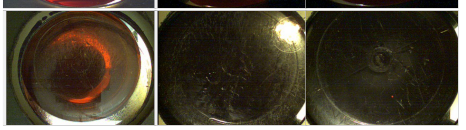


Water



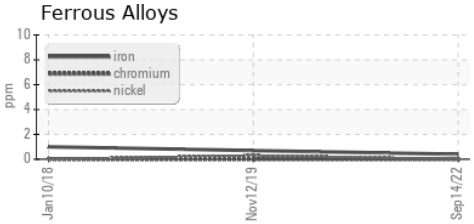
VISUAL		method	limit/base	current	history 1	history 2
White Metal	scalar	*Visual	NONE	**LIGHT**	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	**NONE**	NONE	NONE
Precipitate	scalar	*Visual	NONE	**NONE**	NONE	NONE
Silt	scalar	*Visual	NONE	**NONE**	NONE	NONE
Debris	scalar	*Visual	NONE	**NONE**	NONE	VLITE
Sand/Dirt	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	**47.6**	47.9	47.5

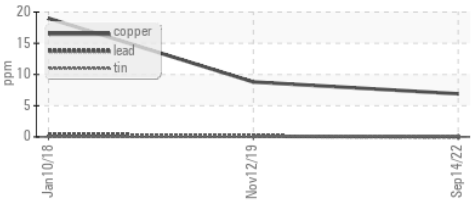
SAMPLE IMAGES	method	limit/base	current	history 1	history 2
Color					
Bottom					

GRAPHS

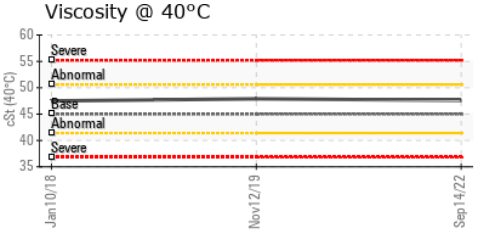
Ferrous Alloys



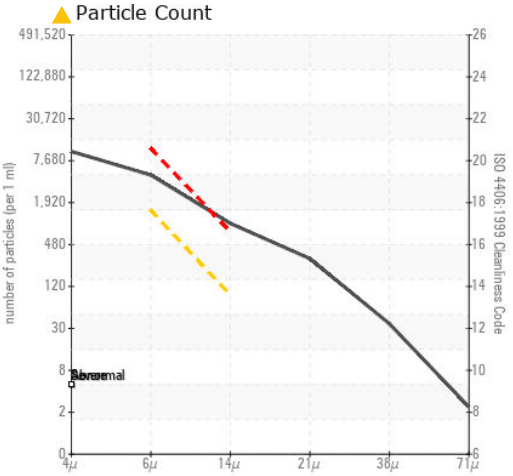
Non-ferrous Metals



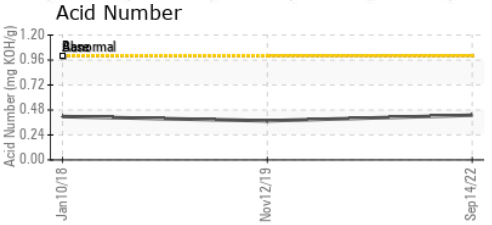
Viscosity @ 40°C



Particle Count



Acid Number



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : KCP46309 **Received** : 21 Sep 2022
Lab Number : 05647878 **Diagnosed** : 22 Sep 2022
Unique Number : 10142417 **Diagnostician** : Jonathan Hester
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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