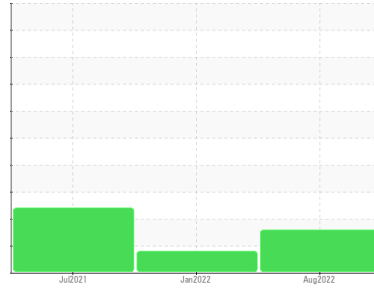


PROBLEM SUMMARY

Sample Rating Trend



ISO



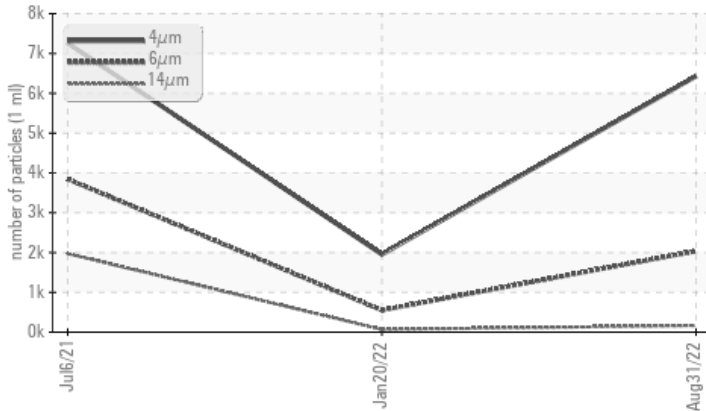
Machine Id
KAESER 3256899

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	MARGINAL	ABNORMAL
Particles >6µm	ASTM D7647	>1300	▲ 2036	549	▲ 3843
Particles >14µm	ASTM D7647	>80	▲ 166	67	▲ 1973
Particles >21µm	ASTM D7647	>20	▲ 39	17	▲ 737
Oil Cleanliness	ISO 4406 (c)	>--/17/13	▲ 20/18/15	16/13	▲ 19/18

Customer Id: CITSIL
Sample No.: KCP48415
Lab Number: 05640369
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

20 Jan 2022 Diag: Jonathan Hester

WEAR



No corrective action is recommended at this time. Resample at the next service interval to monitor. The copper level has decreased, but is still abnormal. There is no indication of any contamination in the oil. 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



06 Jul 2021 Diag: Angela Borella

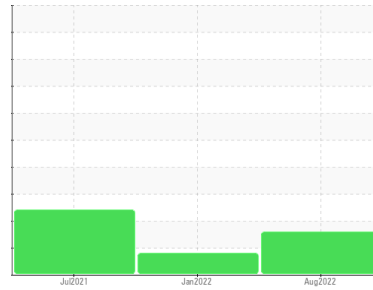
WEAR



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. The copper level is abnormal. All other 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 3256899

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			KCP48415	KCP48586	KCP33307
Sample Date			31 Aug 2022	20 Jan 2022	06 Jul 2021
Machine Age	hrs		0	4322	4322
Oil Age	hrs		0	0	4322
Oil Changed			Changed	Not Changd	Changed
Sample Status			ABNORMAL	MARGINAL	ABNORMAL

WEAR METALS

	method	limit/base	current	history 1	history 2
Iron	ppm ASTM D5185m	>50	0	0	0
Chromium	ppm ASTM D5185m	>10	0	0	0
Nickel	ppm ASTM D5185m	>3	0	0	0
Titanium	ppm ASTM D5185m	>3	0	0	0
Silver	ppm ASTM D5185m	>2	<1	0	<1
Aluminum	ppm ASTM D5185m	>10	<1	0	<1
Lead	ppm ASTM D5185m	>10	<1	<1	0
Copper	ppm ASTM D5185m	>50	39	▲ 81	▲ 113
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	0

ADDITIVES

	method	limit/base	current	history 1	history 2
Boron	ppm ASTM D5185m	0	0	0	8
Barium	ppm ASTM D5185m	90	0	0	0
Molybdenum	ppm ASTM D5185m	0	0	0	0
Manganese	ppm ASTM D5185m		0	0	0
Magnesium	ppm ASTM D5185m	100	<1	0	0
Calcium	ppm ASTM D5185m	0	0	0	0
Phosphorus	ppm ASTM D5185m	0	<1	0	4
Zinc	ppm ASTM D5185m	0	0	0	0
Sulfur	ppm ASTM D5185m	23500	11444	11583	10254

CONTAMINANTS

	method	limit/base	current	history 1	history 2
Silicon	ppm ASTM D5185m	>25	<1	<1	0
Sodium	ppm ASTM D5185m		0	0	<1
Potassium	ppm ASTM D5185m	>20	<1	0	0
Water	% ASTM D6304	>0.05	0.009	0.004	0.010
ppm Water	ppm ASTM D6304	>500	92.3	45.2	108.3

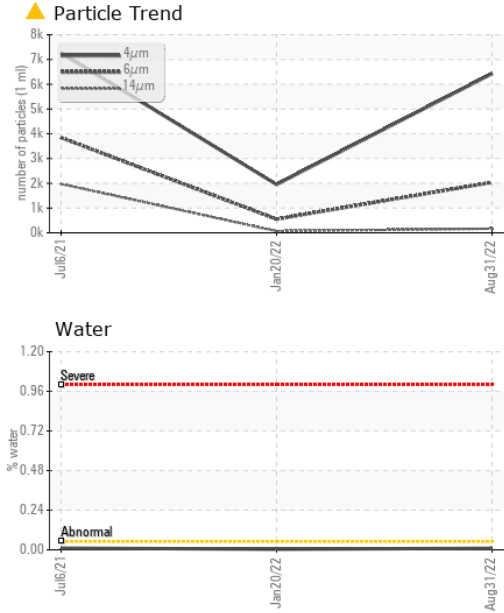
FLUID CLEANLINESS

	method	limit/base	current	history 1	history 2
Particles >4µm	ASTM D7647		6427	1951	7264
Particles >6µm	ASTM D7647	>1300	▲ 2036	549	▲ 3843
Particles >14µm	ASTM D7647	>80	▲ 166	67	▲ 1973
Particles >21µm	ASTM D7647	>20	▲ 39	17	▲ 737
Particles >38µm	ASTM D7647	>4	1	0	▲ 32
Particles >71µm	ASTM D7647	>3	0	0	0
Oil Cleanliness	ISO 4406 (c)	>--/17/13	▲ 20/18/15	16/13	▲ 19/18

FLUID DEGRADATION

	method	limit/base	current	history 1	history 2
Acid Number (AN)	mg KOH/g ASTM D8045	1.0	0.44	0.41	0.392

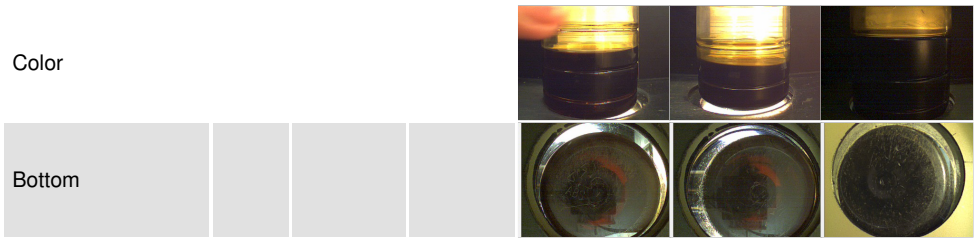
OIL ANALYSIS REPORT



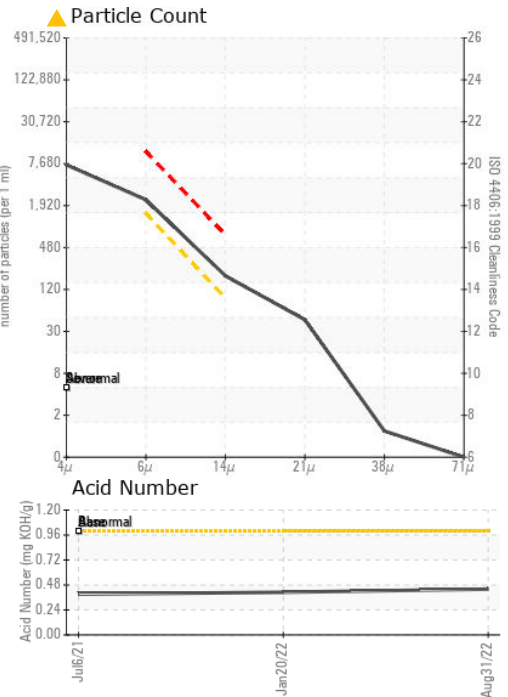
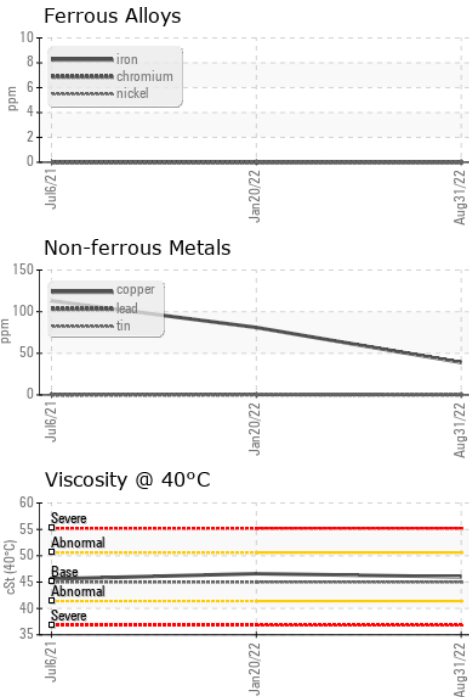
VISUAL	method	limit/base	current	history 1	history 2
White Metal	scalar	*Visual	NONE	NONE	LIGHT
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance	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	45	46.6	45.6

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. : KCP48415 **Received** : 13 Sep 2022
Lab Number : 05640369 **Diagnosed** : 15 Sep 2022
Unique Number : 10129899 **Diagnostician** : Jonathan Hester
Test Package : IND 2 (Additional Tests: KF, PrtCount)

CITY OF TACOMA PARK CITY WORKS DEPT
 31 OSWEGO AVE
 SILVER SPRINGS, MD
 USA 20910
 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: