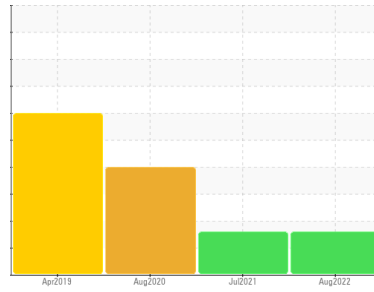




PROBLEM SUMMARY

Sample Rating Trend



ISO



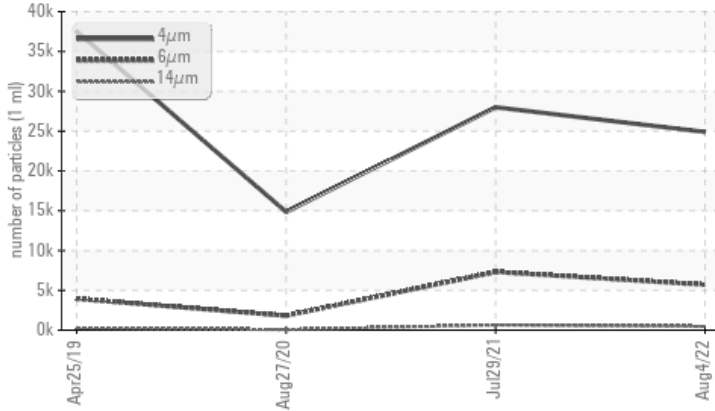
Machine Id
KAESER SM 11 1337224 (S/N 1026)

Component
Compressor

Fluid
KAESER SIGMA (OEM) M-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			ABNORMAL	ABNORMAL	ABNORMAL
Particles >6µm	ASTM D7647	>1300	▲ 5707	▲ 7308	▲ 1805
Particles >14µm	ASTM D7647	>80	▲ 466	▲ 643	61
Particles >21µm	ASTM D7647	>20	▲ 74	▲ 174	11
Oil Cleanliness	ISO 4406 (c)	>--/17/13	▲ 22/20/16	▲ 20/17	▲ 18/13

Customer Id: BARCOL
Sample No.: KCP50252
Lab Number: 05623906
Test Package: IND 2



To manage this report scan the QR code

To discuss the diagnosis or test data:
Don Baldrige +1
don.b505@comcast.net

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

29 Jul 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 acceptable for the time in service.

[view report](#)



27 Aug 2020 Diag: Angela Borella

WATER



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. Additive levels indicate the addition of a different brand, or type of oil. Confirm oil type. The AN level is acceptable for this fluid.

[view report](#)



25 Apr 2019 Diag: Jonathan Hester

DEGRADATION



Oil and filter change at the time of sampling has been noted. We recommend an early resample in 500 hours to monitor this condition. All component wear rates are normal. There is a high amount of particulates present in the oil. The oil viscosity is higher than normal. Additive levels indicate the addition of a different brand, or type of oil. The AN level is at the top-end of the recommended limit.

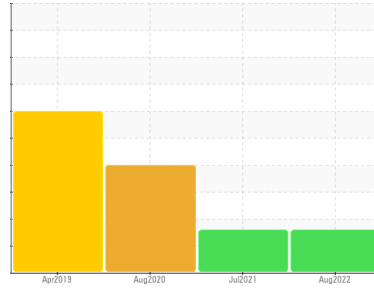
[view report](#)





OIL ANALYSIS REPORT

Sample Rating Trend



Machine Id
KAESER SM 11 1337224 (S/N 1026)

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 acceptable for the time in service.

SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		KCP50252	KCP42669	KCP31250
Sample Date	Client Info		04 Aug 2022	29 Jul 2021	27 Aug 2020
Machine Age	hrs	Client Info	47924	45544	43558
Oil Age	hrs	Client Info	2380	1986	2406
Oil Changed	Client Info		Changed	Changed	Changed
Sample Status			ABNORMAL	ABNORMAL	ABNORMAL

WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >50	3	8	19
Chromium	ppm	ASTM D5185m >10	0	0	0
Nickel	ppm	ASTM D5185m >3	0	0	<1
Titanium	ppm	ASTM D5185m >3	0	0	0
Silver	ppm	ASTM D5185m >2	0	0	0
Aluminum	ppm	ASTM D5185m >10	<1	0	<1
Lead	ppm	ASTM D5185m >10	0	0	0
Copper	ppm	ASTM D5185m >50	1	2	1
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	history1	history2
Boron	ppm	ASTM D5185m 0	0	0	0
Barium	ppm	ASTM D5185m 90	7	42	▲ 57
Molybdenum	ppm	ASTM D5185m 0	<1	2	8
Manganese	ppm	ASTM D5185m	<1	<1	<1
Magnesium	ppm	ASTM D5185m 100	56	100	▲ 225
Calcium	ppm	ASTM D5185m 0	<1	13	▲ 191
Phosphorus	ppm	ASTM D5185m 0	17	52	▲ 147
Zinc	ppm	ASTM D5185m 0	11	25	▲ 141
Sulfur	ppm	ASTM D5185m 23500	19168	16748	14885

CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >25	3	9	4
Sodium	ppm	ASTM D5185m	15	15	10
Potassium	ppm	ASTM D5185m >20	<1	2	5
Water	%	ASTM D6304 >0.05	0.026	0.042	▲ 0.051
ppm Water	ppm	ASTM D6304 >500	260.4	429.6	▲ 513.4

FLUID CLEANLINESS

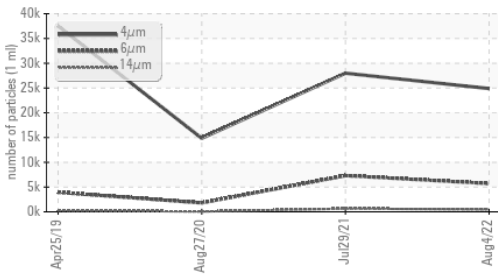
	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647		24889	27991	14852
Particles >6µm	ASTM D7647	>1300	▲ 5707	▲ 7308	▲ 1805
Particles >14µm	ASTM D7647	>80	▲ 466	▲ 643	61
Particles >21µm	ASTM D7647	>20	▲ 74	▲ 174	11
Particles >38µm	ASTM D7647	>4	4	▲ 6	0
Particles >71µm	ASTM D7647	>3	0	0	0
Oil Cleanliness	ISO 4406 (c)	>--/17/13	▲ 22/20/16	▲ 20/17	▲ 18/13

FLUID DEGRADATION

	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045 1.0	0.39	0.433	0.437

OIL ANALYSIS REPORT

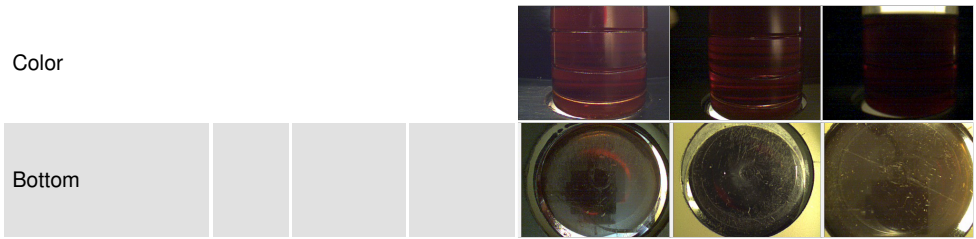
▲ Particle Trend



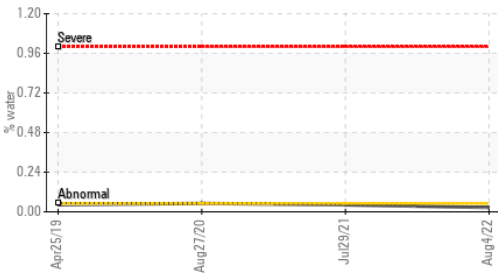
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance	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	history1	history2
Visc @ 40°C	cSt	ASTM D445 45	48.0	48.7	49.8

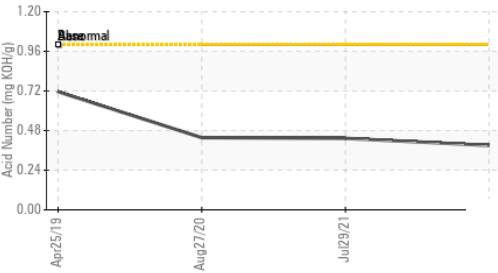
SAMPLE IMAGES	method	limit/base	current	history1	history2
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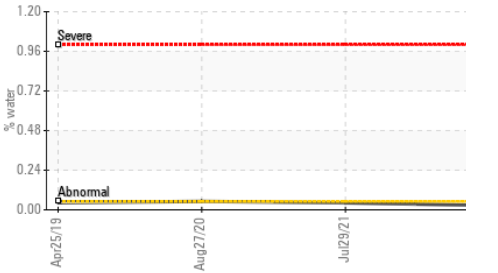
Water



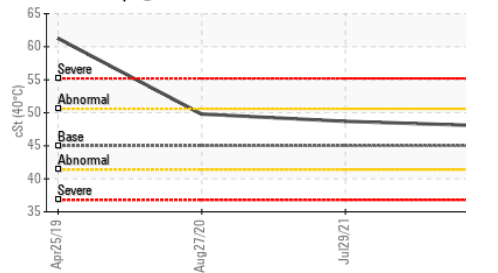
Acid Number



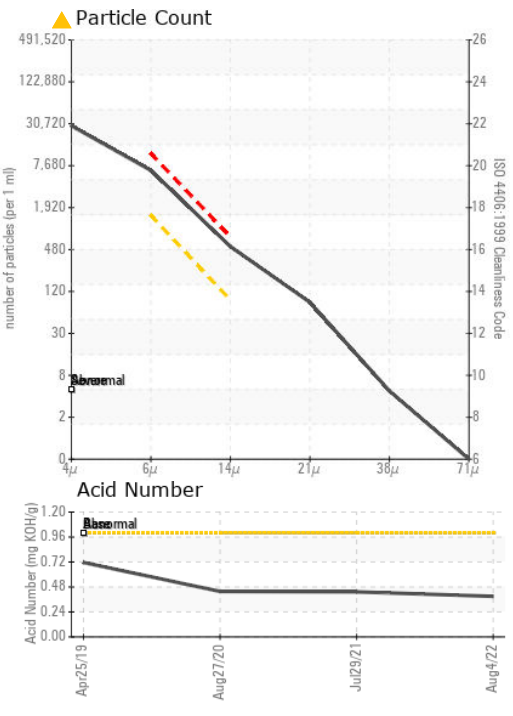
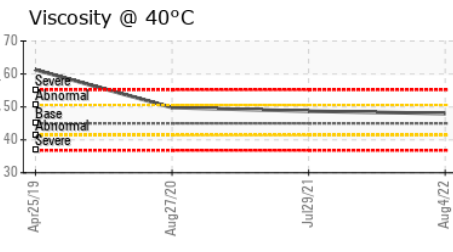
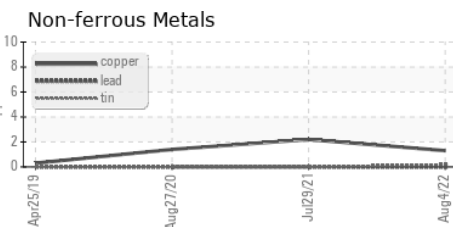
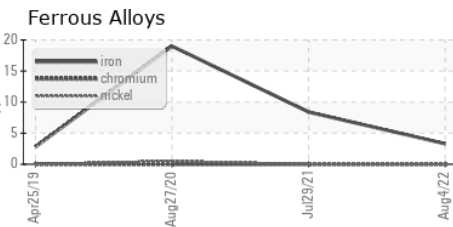
Water



Viscosity @ 40°C



GRAPHS



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
 Sample No. : KCP50252 Received : 22 Aug 2022
 Lab Number : 05623906 Diagnosed : 24 Aug 2022
 Unique Number : 10103413 Diagnostician : Don Baldrige
 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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 barts cleaners.columbus@gmail.com

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