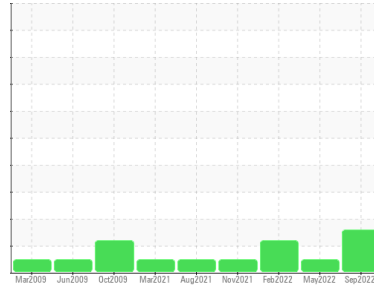


PROBLEM SUMMARY

Sample Rating Trend



ISO



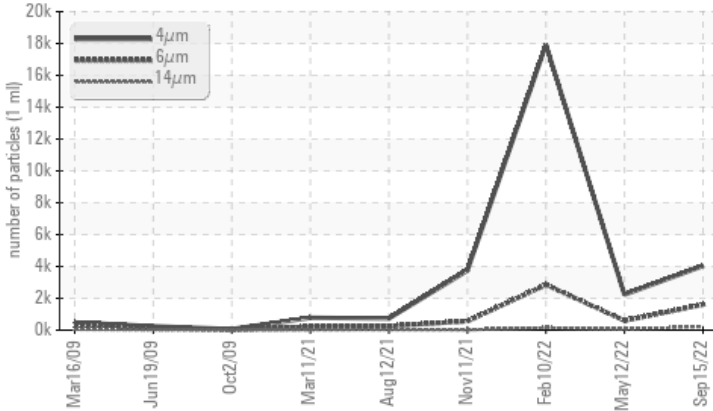
Machine Id
KAESER DSD 200 1782934 (S/N 1011)

Component
Compressor

Fluid
KAESER SIGMA (OEM) S-460 (--- QTS)

COMPONENT CONDITION SUMMARY

▲ Particle Trend



RECOMMENDATION

We recommend you service the filters on this component. Resample at the next service interval to monitor.

PROBLEMATIC TEST RESULTS

Sample Status			ABNORMAL	NORMAL	ABNORMAL
Particles >6µm	ASTM D7647	>1300	▲ 1601	598	▲ 2851
Particles >14µm	ASTM D7647	>80	▲ 210	60	▲ 151
Particles >21µm	ASTM D7647	>20	▲ 42	16	▲ 36
Oil Cleanliness	ISO 4406 (c)	>--/17/13	▲ 19/18/15	18/16/13	▲ 19/14

Customer Id: KRAORW
Sample No.: KC104512
Lab Number: 05646595
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 Filter	---	---	?	We recommend you service the filters on this component.

HISTORICAL DIAGNOSIS

12 May 2022 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



10 Feb 2022 Diag: Jonathan Hester

ISO



We recommend you service the filters on this component. 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



11 Nov 2021 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 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.

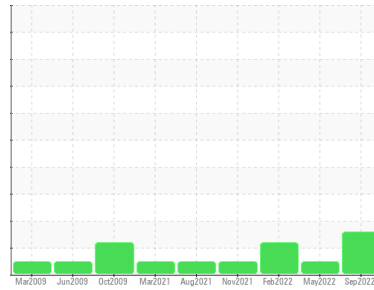
view report



Machine Id
KAESER DSD 200 1782934 (S/N 1011)

Component
Compressor

Fluid
KAESER SIGMA (OEM) S-460 (--- QTS)



DIAGNOSIS

▲ Recommendation

We recommend you service the filters on this component. 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		KC104512	KC95167	KC96490
Sample Date		15 Sep 2022	12 May 2022	10 Feb 2022
Machine Age	hrs	104317	104279	103152
Oil Age	hrs	44	437	3000
Oil Changed		Not Chngd	Not Chngd	Not Chngd
Sample Status		ABNORMAL	NORMAL	ABNORMAL

WEAR METALS

method	limit/base	current	history 1	history 2
Iron ppm	ASTM D5185m >50	<1	0	1
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	0	<1	0
Aluminum ppm	ASTM D5185m >10	<1	0	<1
Lead ppm	ASTM D5185m >10	0	0	0
Copper ppm	ASTM D5185m >50	2	6	7
Tin ppm	ASTM D5185m >10	0	<1	0
Antimony ppm	ASTM D5185m	---	---	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	<1	0
Barium ppm	ASTM D5185m 90	57	0	0
Molybdenum ppm	ASTM D5185m	0	0	0
Manganese ppm	ASTM D5185m	0	0	0
Magnesium ppm	ASTM D5185m 90	57	0	0
Calcium ppm	ASTM D5185m 2	2	0	0
Phosphorus ppm	ASTM D5185m	1	9	0
Zinc ppm	ASTM D5185m	<1	0	0

CONTAMINANTS

method	limit/base	current	history 1	history 2
Silicon ppm	ASTM D5185m >25	<1	<1	0
Sodium ppm	ASTM D5185m	1	<1	0
Potassium ppm	ASTM D5185m >20	0	0	0
Water %	ASTM D6304 >0.05	0.017	0.002	0.003
ppm Water	ASTM D6304 >500	177.1	21.6	35.7

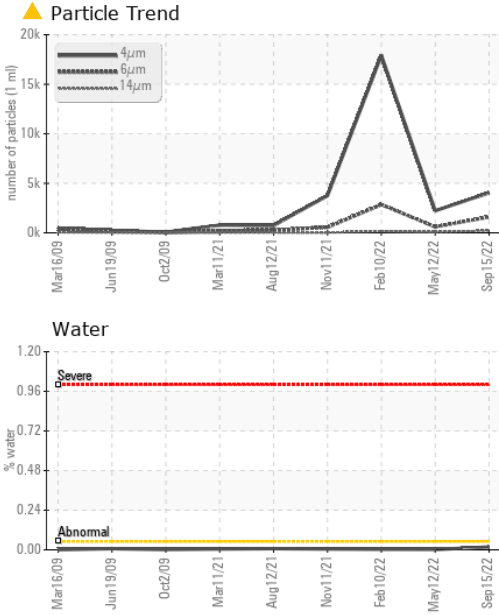
FLUID CLEANLINESS

method	limit/base	current	history 1	history 2
Particles >4µm	ASTM D7647	4035	2229	17915
Particles >6µm	ASTM D7647 >1300	▲ 1601	598	▲ 2851
Particles >14µm	ASTM D7647 >80	▲ 210	60	▲ 151
Particles >21µm	ASTM D7647 >20	▲ 42	16	▲ 36
Particles >38µm	ASTM D7647 >4	2	0	1
Particles >71µm	ASTM D7647 >3	0	0	0
Oil Cleanliness	ISO 4406 (c) >--/17/13	▲ 19/18/15	18/16/13	▲ 19/14

FLUID DEGRADATION

method	limit/base	current	history 1	history 2
Acid Number (AN) mg KOH/g	ASTM D8045 0.4	0.41	0.48	0.46

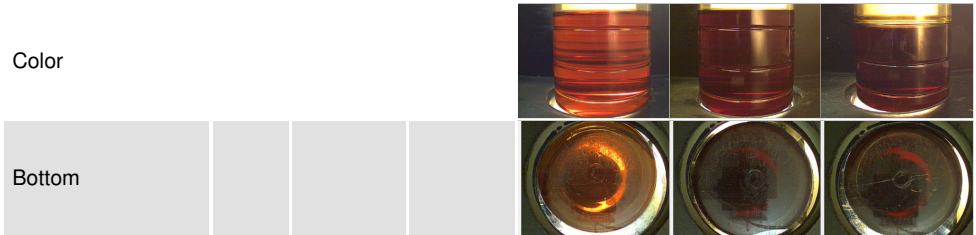
OIL ANALYSIS REPORT



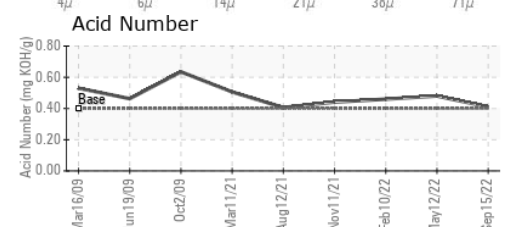
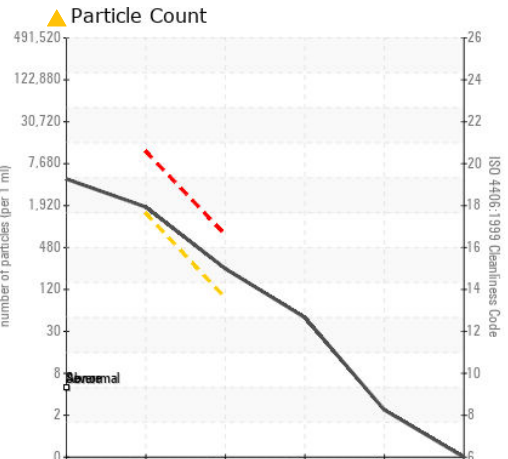
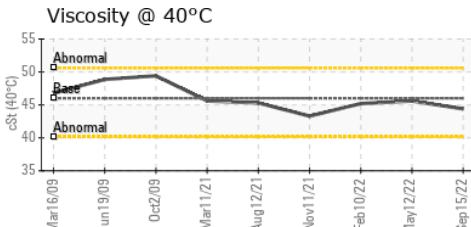
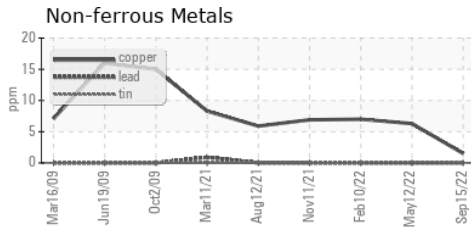
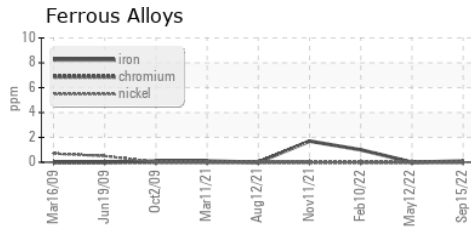
PARAMETER	method	limit/base	current	history 1	history 2
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	LIGHT	LIGHT
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance	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	46	44.4	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. : KC104512
Lab Number : 05646595
Unique Number : 10141134
Test Package : IND 2

KRAFTMAID
 150 GRAND VALLEY AVENUE
 ORWELL, OH
 USA 44076
 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: