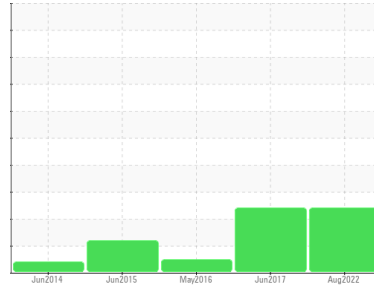


PROBLEM SUMMARY

Sample Rating Trend



ISO



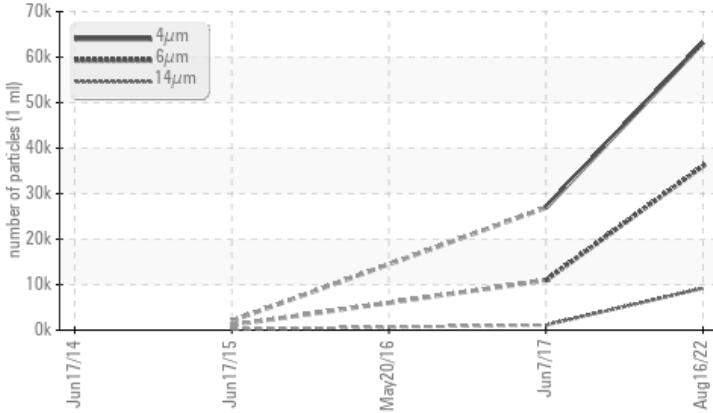
Machine Id
KAESER SM8 1936325 (S/N 1044)

Component
Compressor

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

COMPONENT CONDITION SUMMARY

▲ Particle Trend



RECOMMENDATION

Oil and filter change at the time of sampling has been noted. No corrective action is recommended at this time. Resample at the next service interval to monitor.

PROBLEMATIC TEST RESULTS

Sample Status	ASTM D7647	ASTM D7647	ABNORMAL	ABNORMAL	NORMAL
Particles >6µm	ASTM D7647	>1300	▲ 36071	▲ 10935	---
Particles >14µm	ASTM D7647	>80	▲ 9205	▲ 1131	---
Particles >21µm	ASTM D7647	>20	▲ 2776	▲ 262	---
Particles >38µm	ASTM D7647	>4	▲ 232	▲ 16	---
Particles >71µm	ASTM D7647	>3	▲ 8	▲ 6	---
Oil Cleanliness	ISO 4406 (c)	>--/17/13	▲ 23/22/20	▲ 21/17	---

Customer Id: ROSWOOGA
Sample No.: KCP48144
Lab Number: 05632366
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

07 Jun 2017 Diag: Don Baldrige

ISO



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



20 May 2016 Diag: Jonathan Hester

NORMAL



Resample at the next service interval to monitor. We were unable to perform a particle count on this sample. All component wear rates are normal. There is no indication of any contamination in the component. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

view report



17 Jun 2015 Diag: Jonathan Hester

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 suitable for further service.

view report

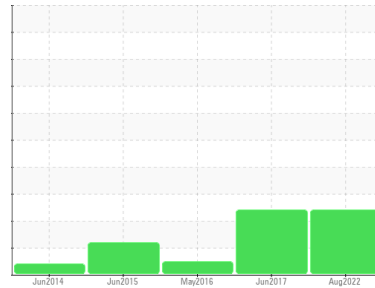




Machine Id
KAESER SM8 1936325 (S/N 1044)

Component
Compressor

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



DIAGNOSIS

Recommendation

Oil and filter change at the time of sampling has been noted. No corrective action is recommended at this time. 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		KCP48144	KCP01308	KCP47862
Sample Date		16 Aug 2022	07 Jun 2017	20 May 2016
Machine Age	hrs	26428	14977	12805
Oil Age	hrs	5600	2172	3000
Oil Changed		Changed	Not Changd	N/A
Sample Status		ABNORMAL	ABNORMAL	NORMAL

WEAR METALS

method	limit/base	current	history 1	history 2
Iron	ppm ASTM D5185m >50	0	<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	0	0	<1
Aluminum	ppm ASTM D5185m >10	<1	<1	<1
Lead	ppm ASTM D5185m >10	0	0	1
Copper	ppm ASTM D5185m >50	8	4	4
Tin	ppm ASTM D5185m >10	0	<1	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	<1	0
Barium	ppm ASTM D5185m 90	0	0	<1
Molybdenum	ppm ASTM D5185m	0	0	0
Manganese	ppm ASTM D5185m	0	<1	0
Magnesium	ppm ASTM D5185m 90	1	44	34
Calcium	ppm ASTM D5185m 2	0	0	<1
Phosphorus	ppm ASTM D5185m	<1	47	26
Zinc	ppm ASTM D5185m	2	12	16
Sulfur	ppm ASTM D5185m	17164	21724	19479

CONTAMINANTS

method	limit/base	current	history 1	history 2
Silicon	ppm ASTM D5185m >25	<1	<1	<1
Sodium	ppm ASTM D5185m	0	12	6
Potassium	ppm ASTM D5185m >20	<1	<1	0
Water	% ASTM D6304 >0.05	0.007	0.028	0.023
ppm Water	ppm ASTM D6304 >500	71.6	280	230

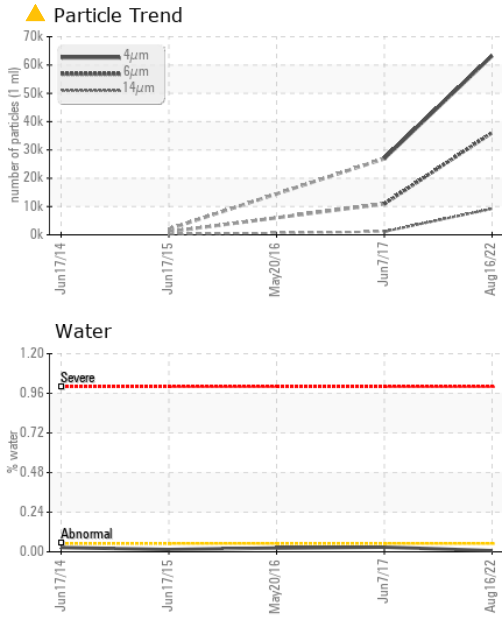
FLUID CLEANLINESS

method	limit/base	current	history 1	history 2
Particles >4µm	ASTM D7647	63213	26911	---
Particles >6µm	ASTM D7647 >1300	▲ 36071	▲ 10935	---
Particles >14µm	ASTM D7647 >80	▲ 9205	▲ 1131	---
Particles >21µm	ASTM D7647 >20	▲ 2776	▲ 262	---
Particles >38µm	ASTM D7647 >4	▲ 232	▲ 16	---
Particles >71µm	ASTM D7647 >3	▲ 8	▲ 6	---
Oil Cleanliness	ISO 4406 (c) >--/17/13	▲ 23/22/20	▲ 21/17	---

FLUID DEGRADATION

method	limit/base	current	history 1	history 2
Acid Number (AN)	mg KOH/g ASTM D8045 0.4	0.38	0.399	0.361

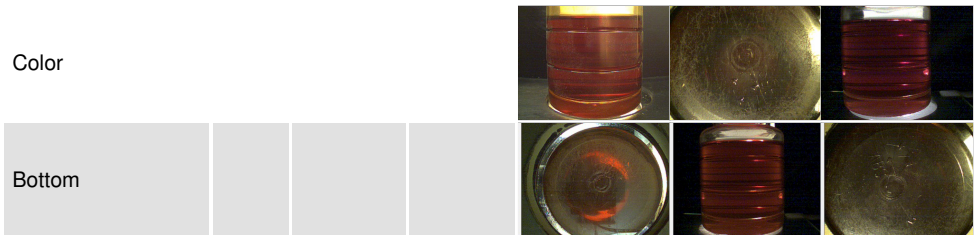
OIL ANALYSIS REPORT



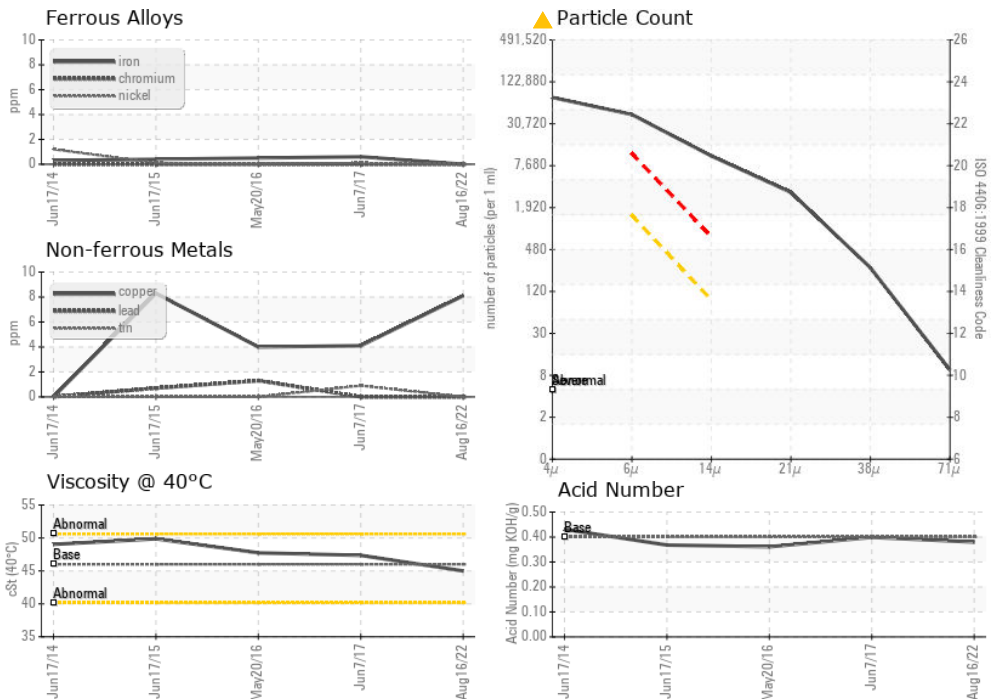
PARAMETER	method	limit/base	current	history 1	history 2
White Metal	scalar	*Visual	NONE	MODER	MODER
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance	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

PARAMETER	method	limit/base	current	history 1	history 2
Visc @ 40°C	cSt	ASTM D445	46	45.0	47.36

PARAMETER	method	limit/base	current	history 1	history 2
-----------	--------	------------	---------	-----------	-----------



GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : KCP48144 **Received** : 01 Sep 2022
Lab Number : 05632366 **Diagnosed** : 03 Sep 2022
Unique Number : 10116887 **Diagnostician** : Don Baldrige
Test Package : IND 2 (Additional Tests: KF, PrtCount)

ROSKO FASTNERS
 406 BELL CT
 WOODSTOCK, GA
 USA 30188
 Contact:

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)