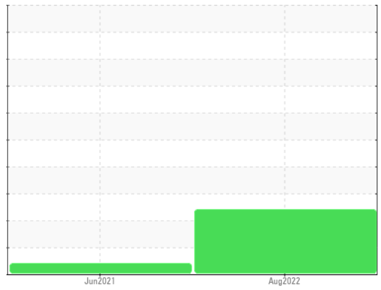
PROBLEM SUMMARY

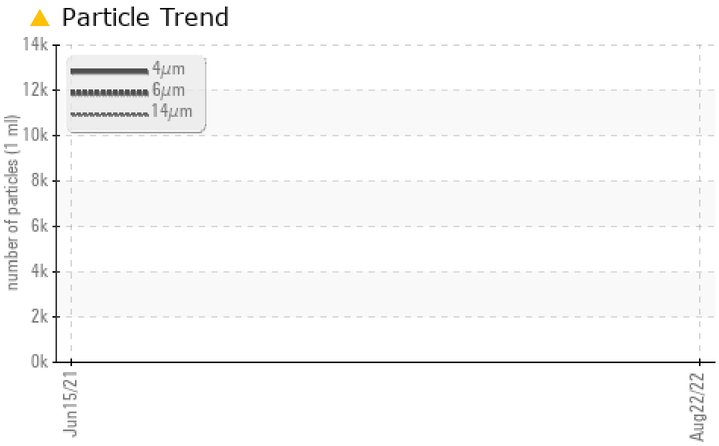
Sample Rating Trend



ISO

Machine Id
KAESER 3393273
Component
Compressor
Fluid
KAESER SIGMA (OEM) S-460 (--- GAL)

COMPONENT CONDITION SUMMARY



RECOMMENDATION

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

PROBLEMATIC TEST RESULTS

Sample Status				**ABNORMAL**	ABNORMAL	---
Particles >6µm		ASTM D7647	>1300	**3808**	---	---
Particles >14µm		ASTM D7647	>80	**210**	---	---
Particles >21µm		ASTM D7647	>20	**35**	---	---
Particles >38µm		ASTM D7647	>4	**6**	---	---
Particles >71µm		ASTM D7647	>3	**3**	---	---
Oil Cleanliness		ISO 4406 (c)	>--/17/13	**21/19/15**	---	---

Customer Id: UNIHAT
Sample No.: KC102203
Lab Number: 05636575
Test Package: IND 2

To manage this report scan the QR code

To discuss the diagnosis or test data:
Don Baldridge +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 Filter	---	---	?	We recommend you service the filters on this component.

HISTORICAL DIAGNOSIS

15 Jun 2021 Diag: Don Baldridge

VIS DEBRIS

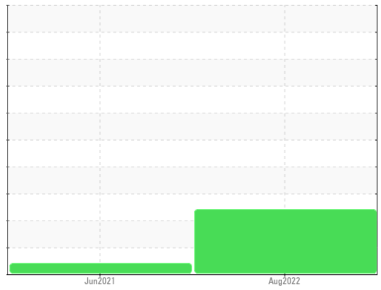
view report

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. We were unable to perform a particle count due to a high concentration of particles present in this sample.All component wear rates are normal. Moderate concentration of visible dirt/debris present in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

OIL ANALYSIS REPORT

KAESER COMPRESSORS
Built for a lifetime.

Sample Rating Trend



ISO

Machine Id
KAESER 3393273
Component
Compressor
Fluid
KAESER SIGMA (OEM) S-460 (--- GAL)

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				**KC102203**	KC68758	---
Sample Date				**22 Aug 2022**	15 Jun 2021	---
Machine Age	hrs			**98409**	98022	---
Oil Age	hrs			**387**	10665	---
Oil Changed				**Not Changd**	Changed	---
Sample Status				**ABNORMAL**	ABNORMAL	---

WEAR METALS		method	limit/base	current	history 1	history 2
Iron	ppm	ASTM D5185m	>50	**0**	0	---
Chromium	ppm	ASTM D5185m	>10	**0**	0	---
Nickel	ppm	ASTM D5185m	>3	**0**	0	---
Titanium	ppm	ASTM D5185m	>3	**0**	0	---
Silver	ppm	ASTM D5185m	>2	**0**	0	---
Aluminum	ppm	ASTM D5185m	>10	**2**	0	---
Lead	ppm	ASTM D5185m	>10	**0**	0	---
Copper	ppm	ASTM D5185m	>50	**3**	2	---
Tin	ppm	ASTM D5185m	>10	**0**	<1	---
Antimony	ppm	ASTM D5185m		**---**	0	---
Vanadium	ppm	ASTM D5185m		**0**	0	---
Cadmium	ppm	ASTM D5185m		**0**	0	---

ADDITIVES		method	limit/base	current	history 1	history 2
Boron	ppm	ASTM D5185m		**0**	5	---
Barium	ppm	ASTM D5185m	90	**0**	0	---
Molybdenum	ppm	ASTM D5185m		**0**	0	---
Manganese	ppm	ASTM D5185m		**0**	0	---
Magnesium	ppm	ASTM D5185m	90	**0**	<1	---
Calcium	ppm	ASTM D5185m	2	**0**	0	---
Phosphorus	ppm	ASTM D5185m		**<1**	5	---
Zinc	ppm	ASTM D5185m		**<1**	0	---

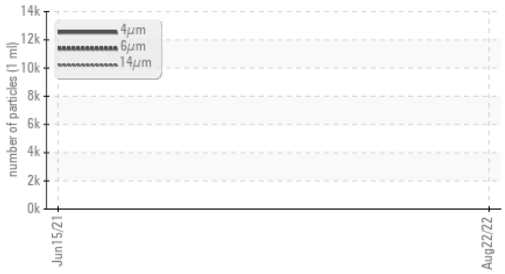
CONTAMINANTS		method	limit/base	current	history 1	history 2
Silicon	ppm	ASTM D5185m	>25	**0**	0	---
Sodium	ppm	ASTM D5185m		**<1**	<1	---
Potassium	ppm	ASTM D5185m	>20	**0**	0	---
Water	%	ASTM D6304	>0.05	**0.007**	0.011	---
ppm Water	ppm	ASTM D6304	>500	**76.6**	112.8	---

FLUID CLEANLINESS		method	limit/base	current	history 1	history 2
Particles >4µm		ASTM D7647		**11995**	---	---
Particles >6µm		ASTM D7647	>1300	**3808**	---	---
Particles >14µm		ASTM D7647	>80	**210**	---	---
Particles >21µm		ASTM D7647	>20	**35**	---	---
Particles >38µm		ASTM D7647	>4	**6**	---	---
Particles >71µm		ASTM D7647	>3	**3**	---	---
Oil Cleanliness		ISO 4406 (c)	>--/17/13	**21/19/15**	---	---

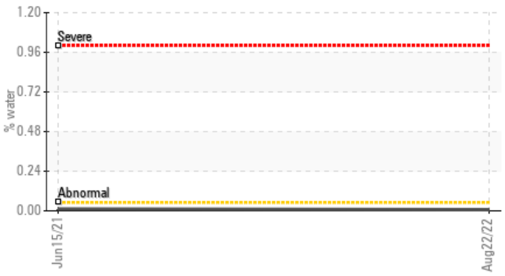
FLUID DEGRADATION		method	limit/base	current	history 1	history 2
Acid Number (AN)	mg KOH/g	ASTM D8045	0.4	**0.41**	0.466	---

OIL ANALYSIS REPORT

Particle Trend

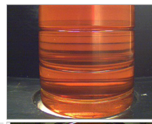
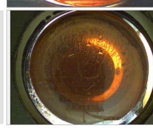
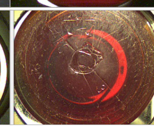


Water



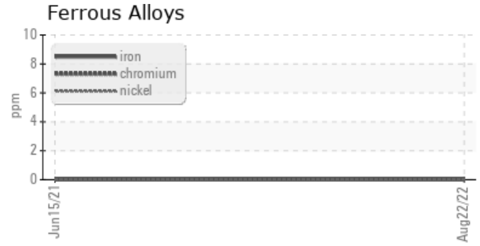
VISUAL		method	limit/base	current	history 1	history 2
White Metal	scalar	*Visual	NONE	**NONE**	NONE	---
Yellow Metal	scalar	*Visual	NONE	**NONE**	NONE	---
Precipitate	scalar	*Visual	NONE	**NONE**	NONE	---
Silt	scalar	*Visual	NONE	**NONE**	NONE	---
Debris	scalar	*Visual	NONE	**LIGHT**	▲ MODER	---
Sand/Dirt	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	**44.3**	45.3	---

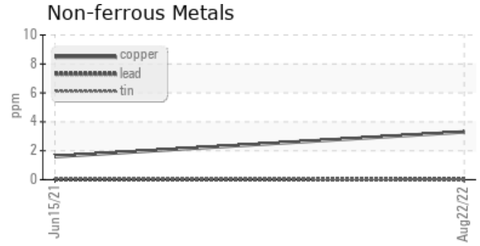
SAMPLE IMAGES		method	limit/base	current	history 1	history 2
Color						*no image*
Bottom						*no image*

GRAPHS

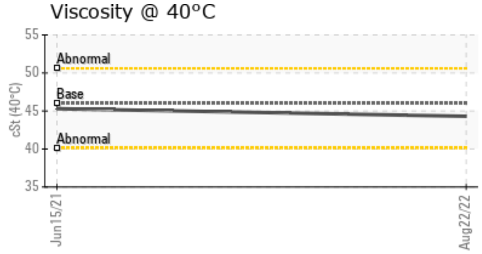
Ferrous Alloys



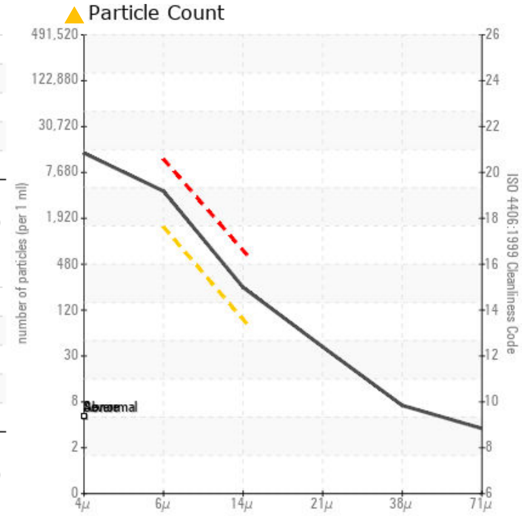
Non-ferrous Metals



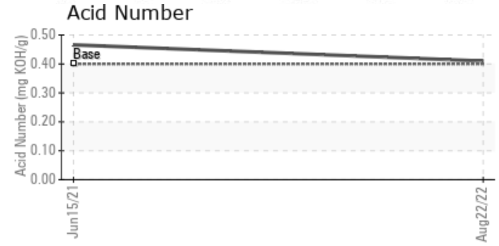
Viscosity @ 40°C



Particle Count



Acid Number



Certificate L2367

Laboratory	: WearCheck USA - 501 Madison Ave., Cary, NC 27513		
Sample No.	: KC102203	**Received**	: 08 Sep 2022
Lab Number	: 05636575	**Diagnosed**	: 12 Sep 2022
Unique Number	: 10126105	**Diagnostician**	: Don Baldridge
Test Package	: IND 2		

UNIVERSITY OF SOUTHERN MS POLYMER SCIENCE RESEARCH
118 COLLEGE DR
HATTIESBURG, MS
USA 39406
Contact: Service Manager
T:
F:

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)