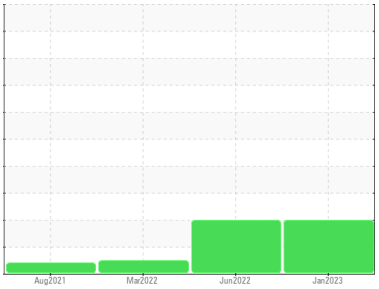
PROBLEM SUMMARY

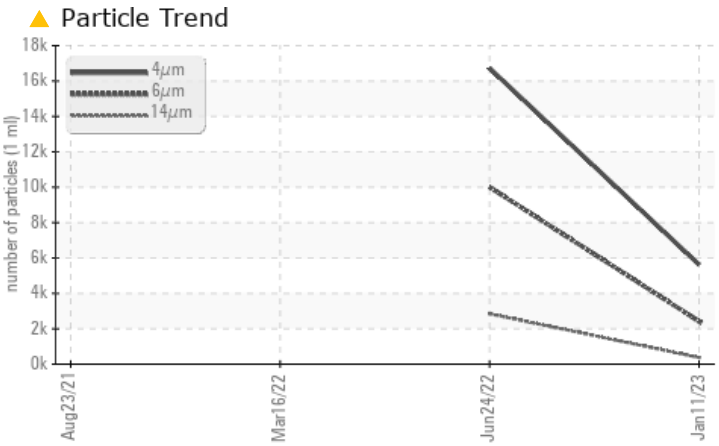
Sample Rating Trend



ISO

Machine Id
7187494 (S/N 1027)
Component
Compressor
Fluid
KAESER SIGMA (OEM) S-460 (--- QTS)

COMPONENT CONDITION SUMMARY



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	NORMAL
Particles >6µm		ASTM D7647	>1300	▲ **2422**	▲ 10007	---
Particles >14µm		ASTM D7647	>80	▲ **374**	▲ 2845	---
Particles >21µm		ASTM D7647	>20	▲ **106**	▲ 1221	---
Particles >38µm		ASTM D7647	>4	▲ **11**	▲ 99	---
Oil Cleanliness		ISO 4406 (c)	>--/17/13	▲ **20/18/16**	▲ 21/21/19	---

Customer Id: GRAGREKCP
Sample No.: KCP47995D
Lab Number: 05741465
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 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

24 Jun 2022 Diag: Doug Bogart

ISO

No corrective action is recommended at this time. 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

16 Mar 2022 Diag: Don Baldridge

NORMAL

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 on this sample.All component wear rates are normal. There is no indication of any contamination in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

view report

23 Aug 2021 Diag: Jonathan Hester

VIS DEBRIS

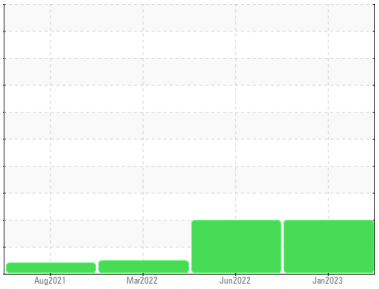
Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor. We were unable to perform a particle count due to a high concentration of particles present in this sample.All component wear rates are normal. Moderate concentration of visible dirt/debris present in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

view report

KAESER COMPRESSORS
Built for a lifetime.

OIL ANALYSIS REPORT

Sample Rating Trend



ISO

Machine Id
7187494 (S/N 1027)
Component
Compressor
Fluid
KAESER SIGMA (OEM) S-460 (--- QTS)

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 suitable for further service.

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number		Client Info		**KCP47995D**	KCP44144	KCP45326
Sample Date		Client Info		**11 Jan 2023**	24 Jun 2022	16 Mar 2022
Machine Age	hrs	Client Info		**9868**	7408	6140
Oil Age	hrs	Client Info		**3728**	4718	3450
Oil Changed		Client Info		**Changed**	Not Changd	Not Changd
Sample Status				**ABNORMAL**	ABNORMAL	NORMAL

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>50	**1**	<1	<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**	0	<1
Aluminum	ppm	ASTM D5185m	>10	**<1**	<1	<1
Lead	ppm	ASTM D5185m	>10	**0**	0	<1
Copper	ppm	ASTM D5185m	>50	**8**	2	2
Tin	ppm	ASTM D5185m	>10	**0**	<1	<1
Antimony	ppm	ASTM D5185m		**---**	---	---
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**	3	2
Barium	ppm	ASTM D5185m	90	**69**	85	83
Molybdenum	ppm	ASTM D5185m		**0**	0	0
Manganese	ppm	ASTM D5185m		**<1**	<1	<1
Magnesium	ppm	ASTM D5185m	90	**90**	84	88
Calcium	ppm	ASTM D5185m	2	**1**	4	2
Phosphorus	ppm	ASTM D5185m		**20**	<1	3
Zinc	ppm	ASTM D5185m		**0**	1	0
Sulfur	ppm	ASTM D5185m		**21751**	19512	16242

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	**<1**	<1	<1
Sodium	ppm	ASTM D5185m		**23**	17	13
Potassium	ppm	ASTM D5185m	>20	**3**	2	<1
Water	%	ASTM D6304	>0.05	**0.021**	0.030	0.024
ppm Water	ppm	ASTM D6304	>500	**218.1**	308.0	249.0

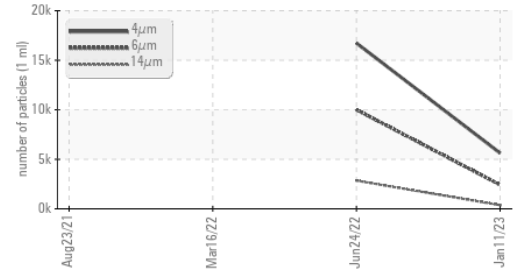
FLUID CLEANLINESS		method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647		**5626**	16730	---
Particles >6µm		ASTM D7647	>1300	▲ **2422**	▲ 10007	---
Particles >14µm		ASTM D7647	>80	▲ **374**	▲ 2845	---
Particles >21µm		ASTM D7647	>20	▲ **106**	▲ 1221	---
Particles >38µm		ASTM D7647	>4	▲ **11**	▲ 99	---
Particles >71µm		ASTM D7647	>3	**1**	2	---
Oil Cleanliness		ISO 4406 (c)	>--/17/13	▲ **20/18/16**	▲ 21/21/19	---

FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	0.4	**0.43**	0.34	0.35

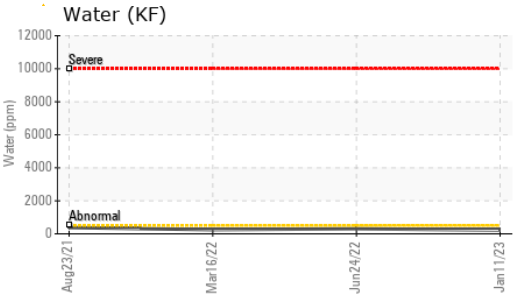
KAESER COMPRESSORS
Built for a lifetime.

OIL ANALYSIS REPORT

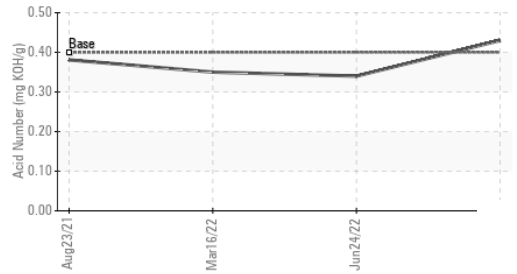
Particle Trend



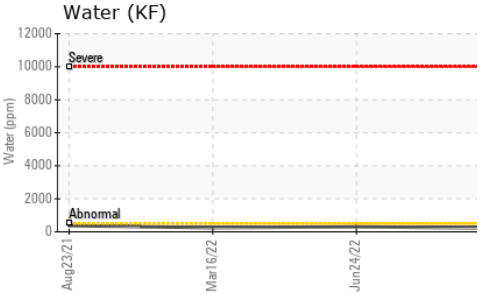
Water (KF)



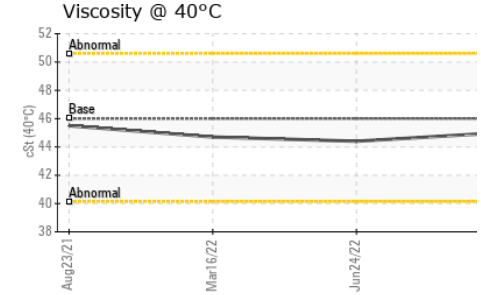
Acid Number



Water (KF)

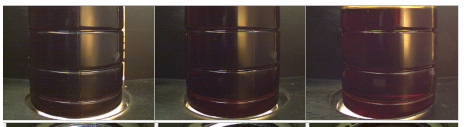
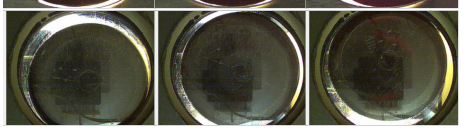


Viscosity @ 40°C



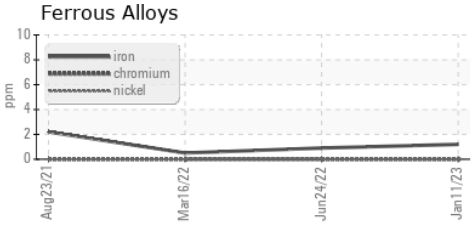
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	**VLITE**	LIGHT	MODER
Yellow Metal	scalar	*Visual	NONE	**NONE**	NONE	NONE
Precipitate	scalar	*Visual	NONE	**NONE**	NONE	NONE
Silt	scalar	*Visual	NONE	**NONE**	NONE	NONE
Debris	scalar	*Visual	NONE	**VLITE**	LIGHT	NONE
Sand/Dirt	scalar	*Visual	NONE	**NONE**	NONE	NONE
Appearance	scalar	*Visual	NORML	**NORML**	NORML	NORML
Odor	scalar	*Visual	NORML	**NORML**	NORML	NORML
Emulsified Water	scalar	*Visual	>0.05	**NEG**	NEG	NEG
Free Water	scalar	*Visual		**NEG**	NEG	NEG

FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	46	**45.0**	44.4	44.7

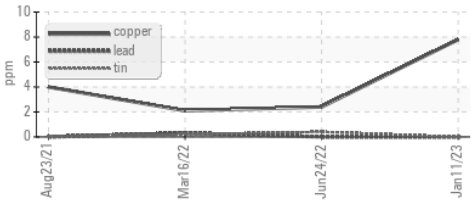
SAMPLE IMAGES	method	limit/base	current	history1	history2
Color					
Bottom					

GRAPHS

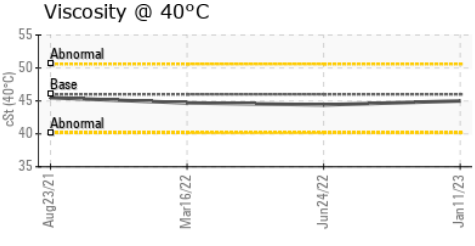
Ferrous Alloys



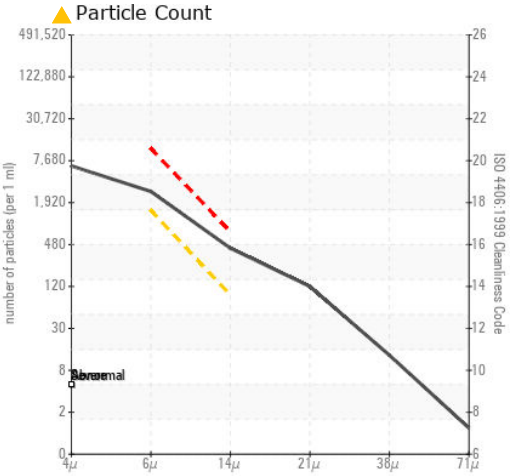
Non-ferrous Metals



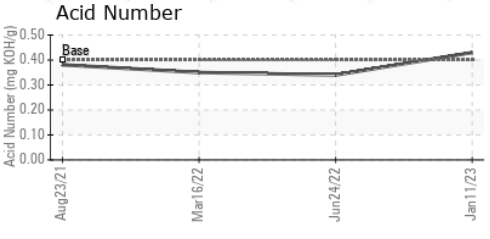
Viscosity @ 40°C



Particle Count



Acid Number



Certificate L2367

Laboratory	: WearCheck USA - 501 Madison Ave., Cary, NC 27513		
Sample No.	: KCP47995D	**Received**	: 17 Jan 2023
Lab Number	: 05741465	**Diagnosed**	: 18 Jan 2023
Unique Number	: 10296064	**Diagnostician**	: Don Baldridge
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)

GRADY WHITE BOATS INC
5121 MARTIN LUTHER KING JR HWY
GREENVILLE, NC
US 27834
Contact: J. TYSON
jtyson@gradywhite.com
T:
F: