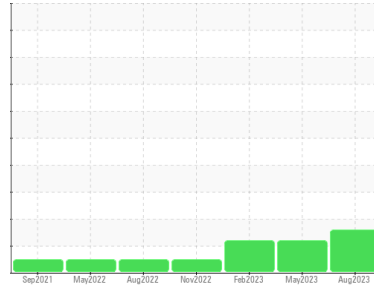




PROBLEM SUMMARY

Sample Rating Trend



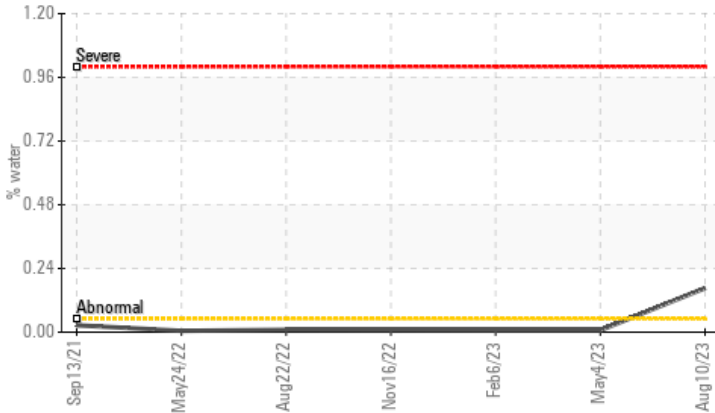
WATER



Area
[7986410]
 Machine Id
7986410 (S/N 1733)
 Component
Compressor
 Fluid
KAESER SIGMA (OEM) S-460 (--- GAL)

COMPONENT CONDITION SUMMARY

▲ Water



RECOMMENDATION

We were unable to perform a particle count n this sample. We advise that you stop the unit and follow the water drain-off procedure for this component. We recommend an early resample in 500 hours to monitor this condition.

PROBLEMATIC TEST RESULTS

Sample Status				ABNORMAL	ATTENTION	ATTENTION
Water	%	ASTM D6304	>0.05	▲ 0.166	0.007	0.007
ppm Water	ppm	ASTM D6304	>500	▲ 1660	79.7	79.3
Emulsified Water	scalar	*Visual	>0.05	▲ 0.2%	NEG	NEG

Customer Id: CAVSTP
 Sample No.: KC125409
 Lab Number: 05928789
 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
Alert	---	---	?	We were unable to perform a particle count due to a high concentration of particles present in this sample.

HISTORICAL DIAGNOSIS

04 May 2023 Diag: Don Baldrige

ISO



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. All component wear rates are normal. There is a moderate 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



06 Feb 2023 Diag: Angela Borella

ISO



No corrective action is recommended at this time. Resample at the next service interval to monitor. All component wear rates are normal. There is a moderate amount of silt (particulates < 14 microns in size) 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 Nov 2022 Diag: Don Baldrige

NORMAL



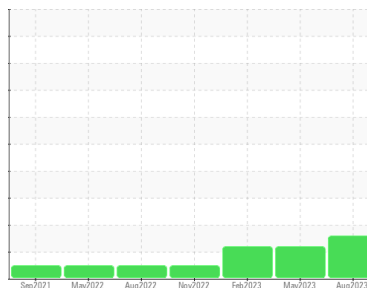
Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the oil. The amount and size of particulates present in the system are acceptable. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

view report



OIL ANALYSIS REPORT

Sample Rating Trend



WATER



Area
[7986410]
Machine Id
7986410 (S/N 1733)

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

DIAGNOSIS

▲ Recommendation

We were unable to perform a particle count n this sample. We advise that you stop the unit and follow the water drain-off procedure for this component. We recommend an early resample in 500 hours to monitor this condition.

Wear

All component wear rates are normal.

▲ Contamination

There is a light concentration of water present in the oil.

Fluid Condition

The AN level is acceptable for this fluid.

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number	Client Info			KC125409	KC102781	KC103031
Sample Date	Client Info			10 Aug 2023	04 May 2023	06 Feb 2023
Machine Age	hrs	Client Info		13685	12054	10938
Oil Age	hrs	Client Info		0	5514	4398
Oil Changed	Client Info			N/A	Changed	Not Changd
Sample Status				ABNORMAL	ATTENTION	ATTENTION

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>50	0	0	0
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	0
Aluminum	ppm	ASTM D5185m	>10	0	1	0
Lead	ppm	ASTM D5185m	>10	<1	0	0
Copper	ppm	ASTM D5185m	>50	13	8	7
Tin	ppm	ASTM D5185m	>10	0	0	0
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		0	0	0

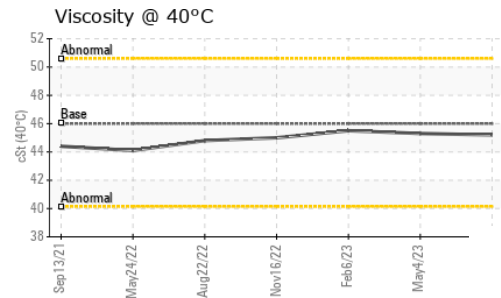
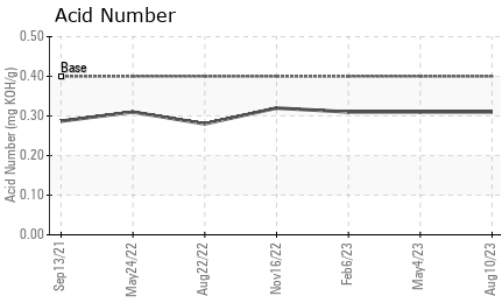
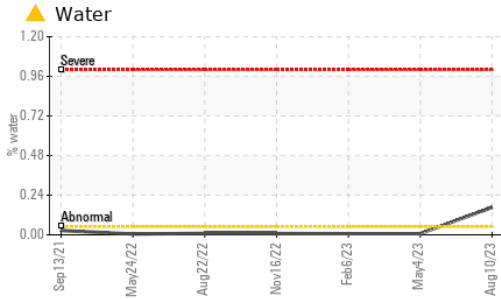
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		0	0	0
Barium	ppm	ASTM D5185m	90	0	0	0
Molybdenum	ppm	ASTM D5185m		0	0	0
Manganese	ppm	ASTM D5185m		0	0	0
Magnesium	ppm	ASTM D5185m	90	4	0	0
Calcium	ppm	ASTM D5185m	2	0	0	0
Phosphorus	ppm	ASTM D5185m		7	3	3
Zinc	ppm	ASTM D5185m		29	0	0

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	1	0	<1
Sodium	ppm	ASTM D5185m		0	<1	<1
Potassium	ppm	ASTM D5185m	>20	0	0	0
Water	%	ASTM D6304	>0.05	▲ 0.166	0.007	0.007
ppm Water	ppm	ASTM D6304	>500	▲ 1660	79.7	79.3

FLUID CLEANLINESS		method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647		---	3782	3934
Particles >6µm		ASTM D7647	>1300	---	1188	▲ 1442
Particles >14µm		ASTM D7647	>80	---	▲ 110	▲ 108
Particles >21µm		ASTM D7647	>20	---	▲ 40	15
Particles >38µm		ASTM D7647	>4	---	3	1
Particles >71µm		ASTM D7647	>3	---	0	0
Oil Cleanliness		ISO 4406 (c)	>--/17/13	---	▲ 19/17/14	▲ 19/18/14

FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	0.4	0.31	0.31	0.31

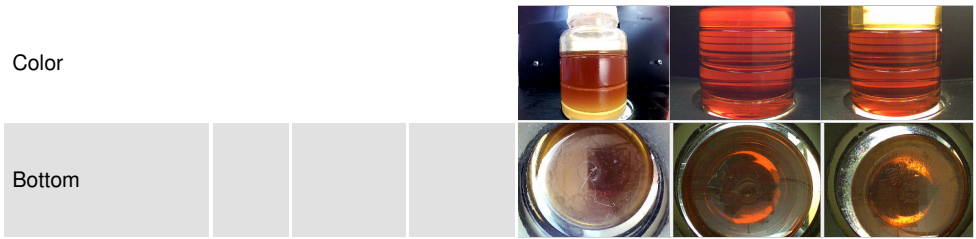
OIL ANALYSIS REPORT



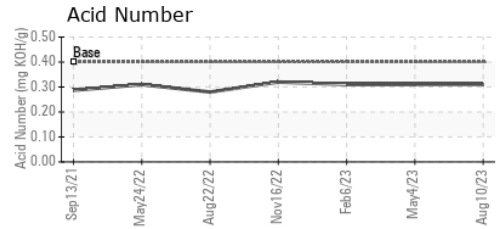
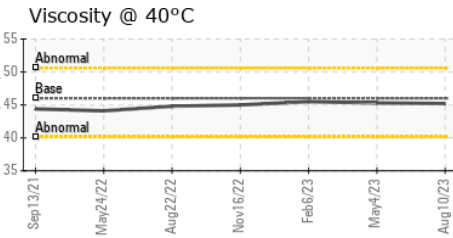
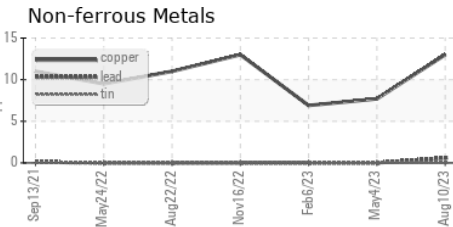
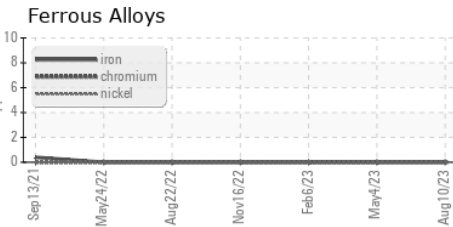
PARAMETER	VISUAL	method	limit/base	current	history1	history2
White Metal	White Metal	scalar	*Visual NONE	MODER	NONE	NONE
Yellow Metal	Yellow Metal	scalar	*Visual NONE	NONE	NONE	NONE
Precipitate	Precipitate	scalar	*Visual NONE	NONE	NONE	NONE
Silt	Silt	scalar	*Visual NONE	NONE	NONE	NONE
Debris	Debris	scalar	*Visual NONE	NONE	LIGHT	NONE
Sand/Dirt	Sand/Dirt	scalar	*Visual NONE	NONE	NONE	NONE
Appearance	Appearance	scalar	*Visual NORML	NORML	NORML	NORML
Odor	Odor	scalar	*Visual NORML	NORML	NORML	NORML
Emulsified Water	Emulsified Water	scalar	*Visual >0.05	▲ 0.2%	NEG	NEG
Free Water	Free Water	scalar	*Visual	NEG	NEG	NEG

PARAMETER	FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	Visc @ 40°C	cSt	ASTM D445 46	45.2	45.3	45.5

PARAMETER	SAMPLE IMAGES	method	limit/base	current	history1	history2
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GRAPHS



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : KC125409 **Received** : 18 Aug 2023
Lab Number : 05928789 **Diagnosed** : 22 Aug 2023
Unique Number : 10608736 **Diagnostician** : Don Baldrige
Test Package : IND 2

CAVAFORM INDUSTRIES
 2700 72ND ST N
 ST PETERSBURG, FL
 US 33710
 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: