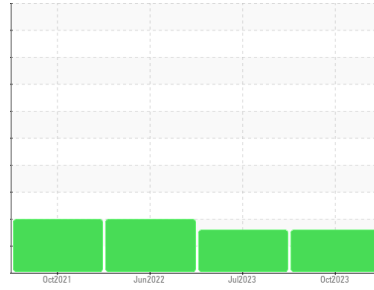




PROBLEM SUMMARY

Sample Rating Trend



ISO



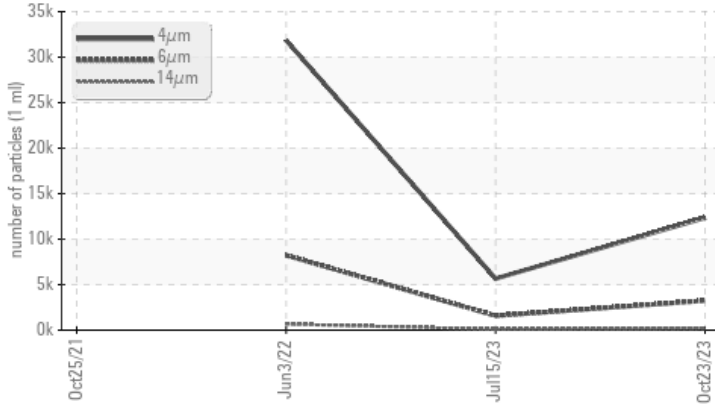
Machine Id
7014688 (S/N 1158)

Component
Compressor

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

COMPONENT CONDITION SUMMARY

▲ Particle Trend



RECOMMENDATION

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.

PROBLEMATIC TEST RESULTS

Sample Status			ABNORMAL	ATTENTION	ABNORMAL
Particles >6µm	ASTM D7647	>1300	▲ 3242	▲ 1581	▲ 8232
Particles >14µm	ASTM D7647	>80	▲ 181	▲ 91	▲ 660
Particles >21µm	ASTM D7647	>20	▲ 39	18	▲ 196
Oil Cleanliness	ISO 4406 (c)	>17/13	▲ 19/15	▲ 18/14	▲ 20/17

Customer Id: SCRGRE
Sample No.: KCPA003693
Lab Number: 05995594
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

There are no recommended actions for this sample.

HISTORICAL DIAGNOSIS

15 Jul 2023 Diag: Jonathan Hester

VISCOSITY



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 moderate amount of particulates present in the oil. The oil viscosity is higher than normal. The AN level is acceptable for this fluid.

view report



03 Jun 2022 Diag: Doug Bogart

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 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



25 Oct 2021 Diag: Doug Bogart

WATER



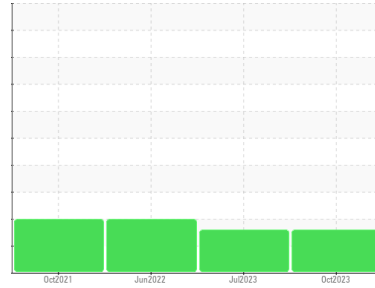
Oil and filter change at the time of sampling has been noted. We recommend an early resample in 500 hours to monitor this condition. We were unable to perform a particle count due to a high concentration of particles present in this sample. All component wear rates are normal. Moderate concentration of visible dirt/debris present in the oil. There is a light concentration of water present in the oil. The AN level is acceptable for this fluid. The condition of the oil is acceptable for the time in service.

view report



OIL ANALYSIS REPORT

Sample Rating Trend



ISO



Machine Id
7014688 (S/N 1158)

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

DIAGNOSIS

▲ **Recommendation**

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.

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	KCPA003693	KCPA004847	KCP51269
Sample Date	Client Info	23 Oct 2023	15 Jul 2023	03 Jun 2022
Machine Age	hrs	Client Info	22273	20375
Oil Age	hrs	Client Info	0	0
Oil Changed	Client Info	N/A	N/A	Changed
Sample Status		ABNORMAL	ATTENTION	ABNORMAL

WEAR METALS method limit/base current history1 history2

Iron	ppm	ASTM D5185m	>50	0	0	2
Chromium	ppm	ASTM D5185m	>10	0	0	0
Nickel	ppm	ASTM D5185m	>3	<1	0	0
Titanium	ppm	ASTM D5185m	>3	0	0	0
Silver	ppm	ASTM D5185m	>2	0	0	<1
Aluminum	ppm	ASTM D5185m	>10	<1	0	<1
Lead	ppm	ASTM D5185m	>10	0	0	0
Copper	ppm	ASTM D5185m	>50	12	16	26
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	0	0	0
Barium	ppm	ASTM D5185m	90	0	0	0
Molybdenum	ppm	ASTM D5185m	0	0	0	<1
Manganese	ppm	ASTM D5185m		0	0	0
Magnesium	ppm	ASTM D5185m	100	2	0	<1
Calcium	ppm	ASTM D5185m	0	1	0	0
Phosphorus	ppm	ASTM D5185m	0	<1	0	0
Zinc	ppm	ASTM D5185m	0	28	0	41
Sulfur	ppm	ASTM D5185m	23500	17242	8589	15784

CONTAMINANTS method limit/base current history1 history2

Silicon	ppm	ASTM D5185m	>25	<1	0	<1
Sodium	ppm	ASTM D5185m		<1	0	0
Potassium	ppm	ASTM D5185m	>20	<1	<1	<1
Water	%	ASTM D6304	>0.05	0.005	0.012	0.006
ppm Water	ppm	ASTM D6304	>500	58.6	128.6	67.8

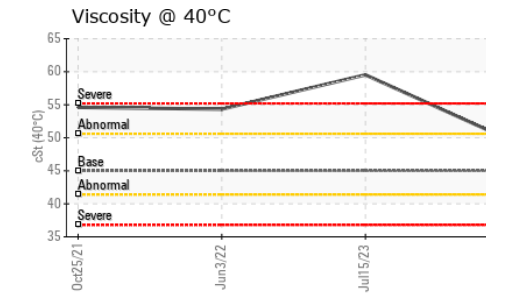
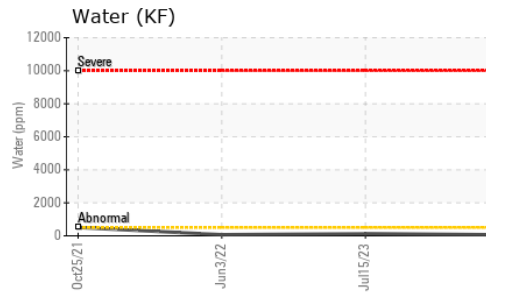
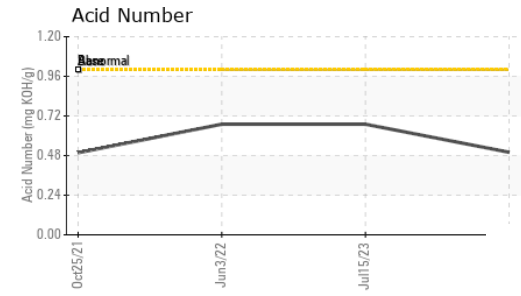
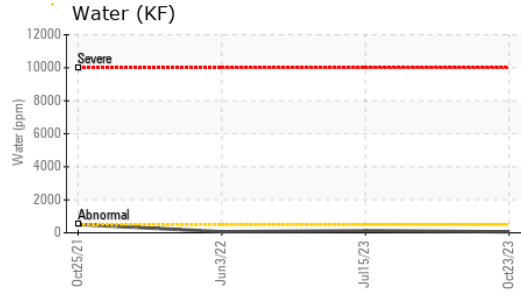
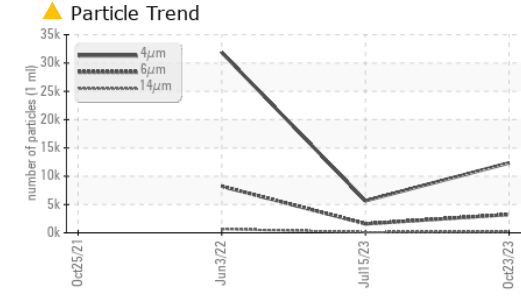
FLUID CLEANLINESS method limit/base current history1 history2

Particles >4µm	ASTM D7647			12351	5660	31850
Particles >6µm	ASTM D7647	>1300	▲	3242	▲ 1581	▲ 8232
Particles >14µm	ASTM D7647	>80	▲	181	▲ 91	▲ 660
Particles >21µm	ASTM D7647	>20	▲	39	18	▲ 196
Particles >38µm	ASTM D7647	>4		1	1	▲ 9
Particles >71µm	ASTM D7647	>3		0	0	0
Oil Cleanliness	ISO 4406 (c)	>17/13	▲	19/15	▲ 18/14	▲ 20/17

FLUID DEGRADATION method limit/base current history1 history2

Acid Number (AN)	mg KOH/g	ASTM D8045	1.0	0.50	0.67	0.67
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OIL ANALYSIS REPORT

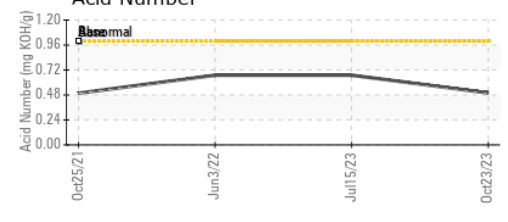
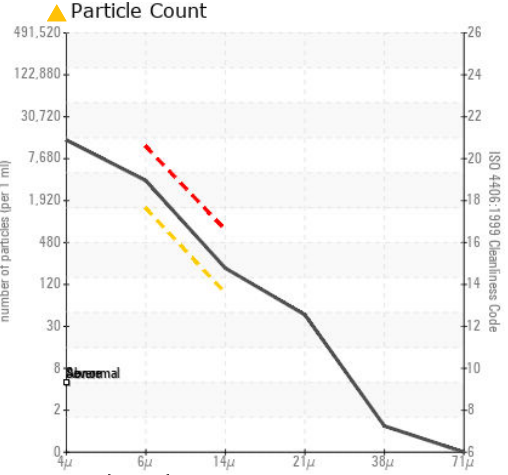
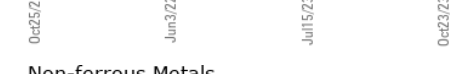
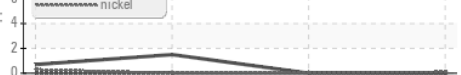


PARAMETER	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance	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

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445 45	49.7	▲ 59.53	54.33

SAMPLE IMAGES	method	limit/base	current	history1	history2
Color					
Bottom					

GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : KCPA003693 **Received** : 01 Nov 2023
Lab Number : 05995594 **Diagnosed** : 02 Nov 2023
Unique Number : 10723954 **Diagnostician** : Don Baldrige
Test Package : IND 2 (Additional Tests: KF, PrtCount)

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 Contact: MARCELO POSADA
 marcelo.posada@jbsa.com
 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)