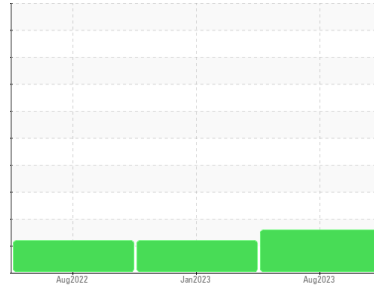




PROBLEM SUMMARY

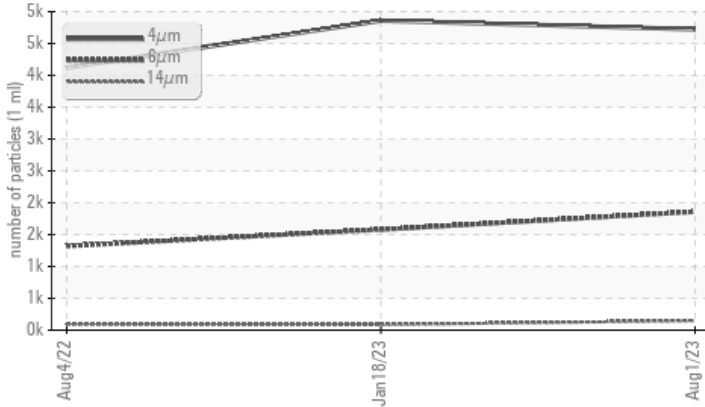
Sample Rating Trend



Machine Id
KAESER AS20T 8208430 (S/N 1321)
 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			ATTENTION	ATTENTION	ATTENTION
Particles >6µm	ASTM D7647	>1300	▲ 1860	▲ 1579	▲ 1319
Particles >14µm	ASTM D7647	>80	▲ 149	▲ 86	▲ 92
Particles >21µm	ASTM D7647	>20	▲ 39	19	16
Oil Cleanliness	ISO 4406 (c)	>--/17/13	▲ 19/18/14	▲ 19/18/14	▲ 19/18/14

Customer Id: SMIGUN
 Sample No.: KCPA005699
 Lab Number: 05922184
 Test Package: IND 2



To manage this report scan the QR code

To discuss the diagnosis or test data:
 Jonathan Hester +1 919-379-4092 x4092
jhester@wearcheckusa.com

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

18 Jan 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



04 Aug 2022 Diag: Don Baldrige

ISO



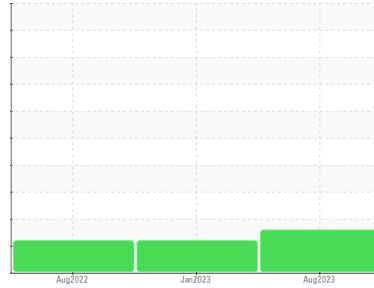
The filter change at the time of sampling has been noted. Resample at the next service interval to monitor. All component wear rates are normal. There is a moderate amount of particulates present in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

view report



OIL ANALYSIS REPORT

Sample Rating Trend



ISO



Machine Id
KAESER AS20T 8208430 (S/N 1321)

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 moderate 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	KCPA005699	KCP52912	KCP51557
Sample Date	Client Info	01 Aug 2023	18 Jan 2023	04 Aug 2022
Machine Age	hrs	2290	1722	1114
Oil Age	hrs	0	608	1114
Oil Changed	Client Info	N/A	Changed	N/A
Sample Status		ATTENTION	ATTENTION	ATTENTION

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	2	0	<1
Lead	ppm	ASTM D5185m	>10	0	0	0
Copper	ppm	ASTM D5185m	>50	2	5	3
Tin	ppm	ASTM D5185m	>10	0	0	0
Vanadium	ppm	ASTM D5185m		<1	0	0
Cadmium	ppm	ASTM D5185m		0	0	0

ADDITIVES method limit/base current history1 history2

Boron	ppm	ASTM D5185m	0	0	0	<1
Barium	ppm	ASTM D5185m	90	19	10	17
Molybdenum	ppm	ASTM D5185m	0	0	0	0
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m	100	65	40	56
Calcium	ppm	ASTM D5185m	0	<1	<1	2
Phosphorus	ppm	ASTM D5185m	0	2	36	3
Zinc	ppm	ASTM D5185m	0	0	0	4
Sulfur	ppm	ASTM D5185m	23500	21058	18890	17003

CONTAMINANTS method limit/base current history1 history2

Silicon	ppm	ASTM D5185m	>25	<1	0	0
Sodium	ppm	ASTM D5185m		18	14	17
Potassium	ppm	ASTM D5185m	>20	6	10	13
Water	%	ASTM D6304	>0.05	0.020	0.014	0.020
ppm Water	ppm	ASTM D6304	>500	208.2	148.8	204.4

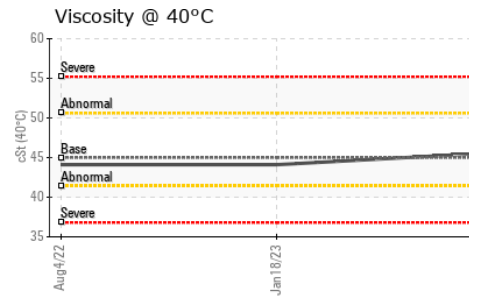
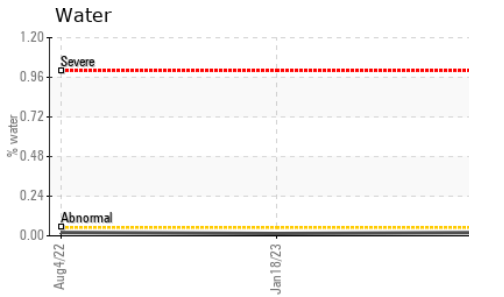
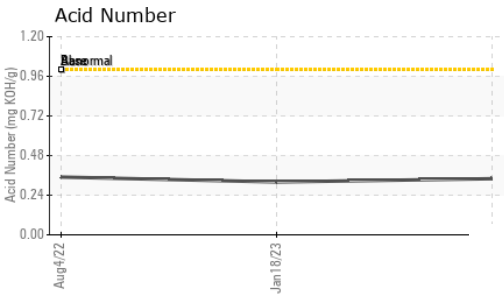
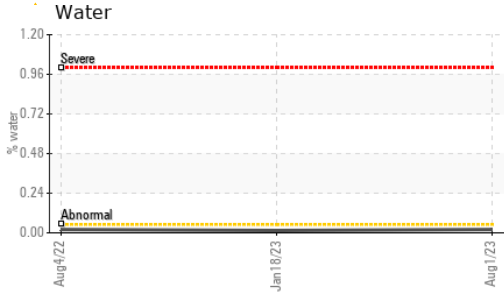
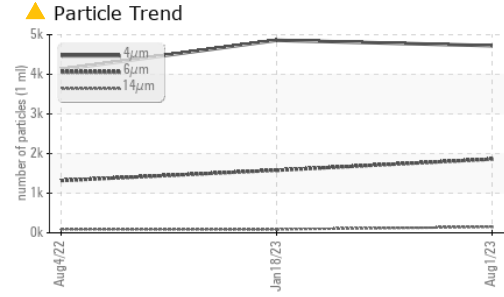
FLUID CLEANLINESS method limit/base current history1 history2

Particles >4µm	ASTM D7647			4722	4859	4119
Particles >6µm	ASTM D7647	>1300		▲ 1860	▲ 1579	▲ 1319
Particles >14µm	ASTM D7647	>80		▲ 149	▲ 86	▲ 92
Particles >21µm	ASTM D7647	>20		▲ 39	19	16
Particles >38µm	ASTM D7647	>4		0	2	0
Particles >71µm	ASTM D7647	>3		0	1	0
Oil Cleanliness	ISO 4406 (c)	>--/17/13		▲ 19/18/14	▲ 19/18/14	▲ 19/18/14

FLUID DEGRADATION method limit/base current history1 history2

Acid Number (AN)	mg KOH/g	ASTM D8045	1.0	0.34	0.32	0.35
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OIL ANALYSIS REPORT

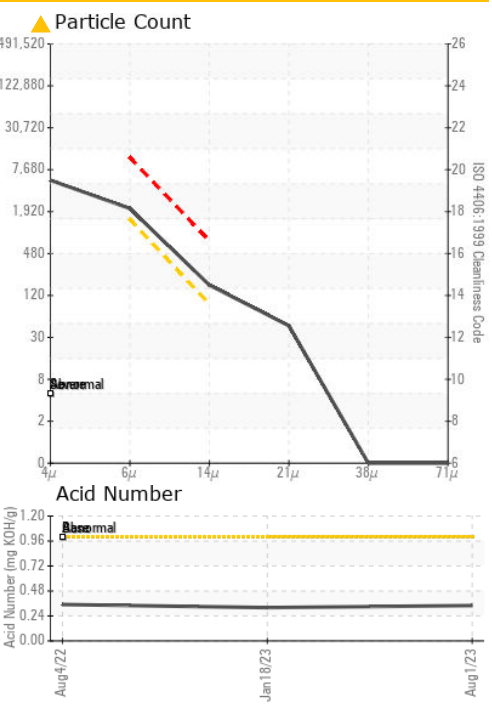
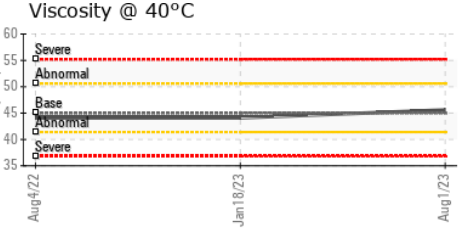
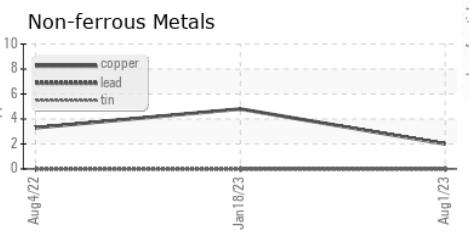
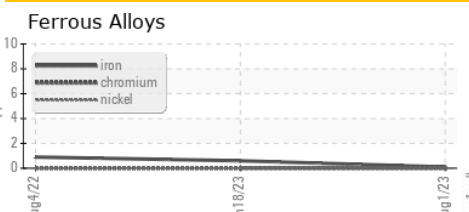


VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance	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	45.6	44.1	44.1

SAMPLE IMAGES	method	limit/base	current	history1	history2
Color					
Bottom					

GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : KCPA005699 **Received** : 11 Aug 2023
Lab Number : 05922184 **Diagnosed** : 14 Aug 2023
Unique Number : 10602131 **Diagnostician** : Jonathan Hester
Test Package : IND 2 (Additional Tests: KF, PrtCount)

SMITH DESIGN AND MANUFACTURING
 515 MAIN ST
 GUNTER, TX
 US 75058
 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)