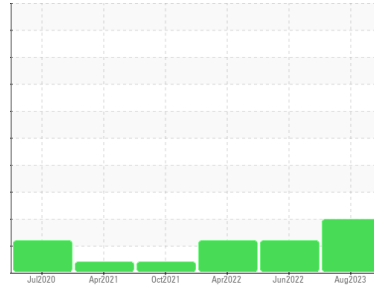




PROBLEM SUMMARY

Sample Rating Trend

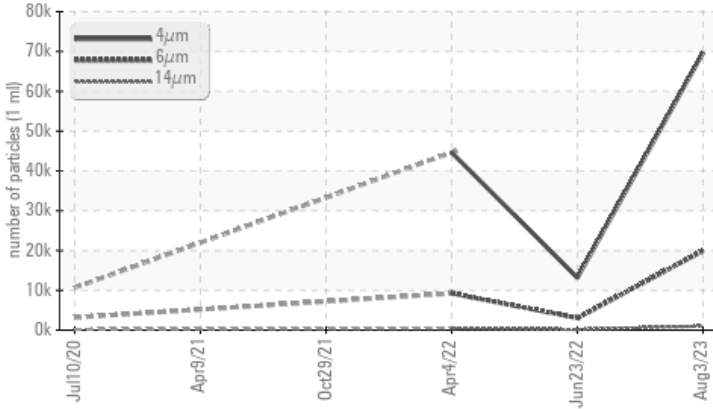


Machine Id
KAESER SM 10 6043654 (S/N 1073)

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	ABNORMAL	ABNORMAL
Particles >6µm	ASTM D7647	>1300	▲ 19962	▲ 3048	▲ 9228
Particles >14µm	ASTM D7647	>80	▲ 1012	▲ 144	▲ 498
Particles >21µm	ASTM D7647	>20	▲ 221	19	▲ 125
Particles >38µm	ASTM D7647	>4	▲ 6	1	4
Oil Cleanliness	ISO 4406 (c)	>--/17/13	▲ 23/21/17	▲ 21/19/14	▲ 20/16

Customer Id: UPSPHI
 Sample No.: KCPA005679
 Lab Number: 05927858
 Test Package: IND 2



To manage this report scan the QR code

To discuss the diagnosis or test data:
 Doug Bogart +1 (800)237-1369 x4016
dougb@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

23 Jun 2022 Diag: Don Baldrige

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 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



04 Apr 2022 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 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



29 Oct 2021 Diag: Angela Borella

VIS DEBRIS



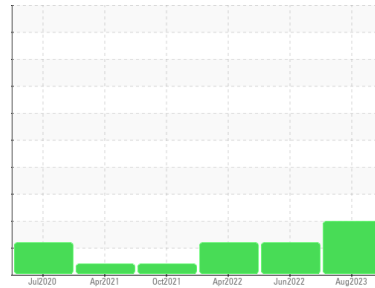
No corrective action is recommended at this time. The filter change at the time of sampling has been noted. Resample at the next service interval to monitor. We were unable to perform a particle count due to a high concentration of particles present in this sample. All component wear rates are normal. 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



OIL ANALYSIS REPORT

Sample Rating Trend



ISO



Machine Id
KAESER SM 10 6043654 (S/N 1073)

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	KCPA005679	KCP49523	KCP44394
Sample Date	Client Info	03 Aug 2023	23 Jun 2022	04 Apr 2022
Machine Age	hrs	33406	25555	24420
Oil Age	hrs	0	2063	0
Oil Changed	Client Info	N/A	Not Changd	Changed
Sample Status		ABNORMAL	ABNORMAL	ABNORMAL

WEAR METALS

method	limit/base	current	history1	history2
Iron	ppm ASTM D5185m >50	<1	<1	2
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	<1
Lead	ppm ASTM D5185m >10	0	0	0
Copper	ppm ASTM D5185m >50	6	0	2
Tin	ppm ASTM D5185m >10	0	0	<1
Antimony	ppm ASTM D5185m	---	---	---
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	0	84	2
Molybdenum	ppm ASTM D5185m 0	0	0	0
Manganese	ppm ASTM D5185m	0	0	<1
Magnesium	ppm ASTM D5185m 100	31	76	59
Calcium	ppm ASTM D5185m 0	0	2	2
Phosphorus	ppm ASTM D5185m 0	2	<1	14
Zinc	ppm ASTM D5185m 0	24	0	24
Sulfur	ppm ASTM D5185m 23500	21323	16449	16732

CONTAMINANTS

method	limit/base	current	history1	history2
Silicon	ppm ASTM D5185m >25	<1	0	<1
Sodium	ppm ASTM D5185m	7	3	15
Potassium	ppm ASTM D5185m >20	1	0	1
Water	% ASTM D6304 >0.05	0.011	0.043	0.020
ppm Water	ppm ASTM D6304 >500	112.7	438.6	208.1

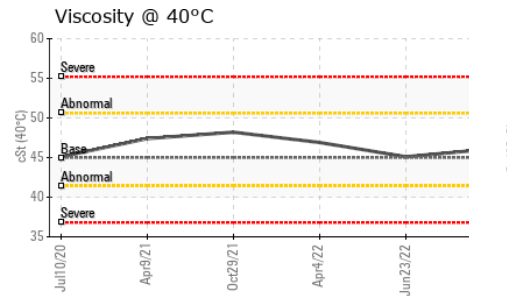
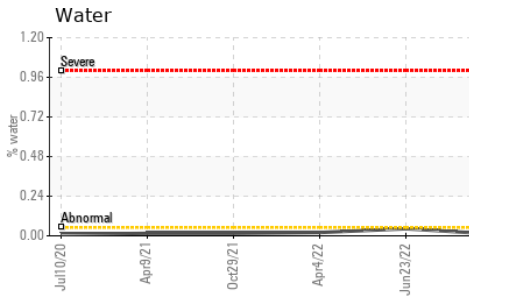
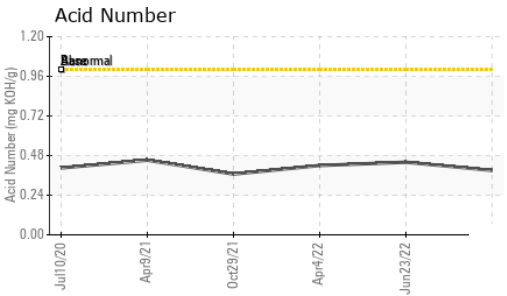
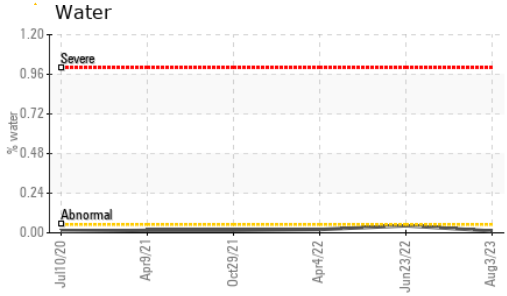
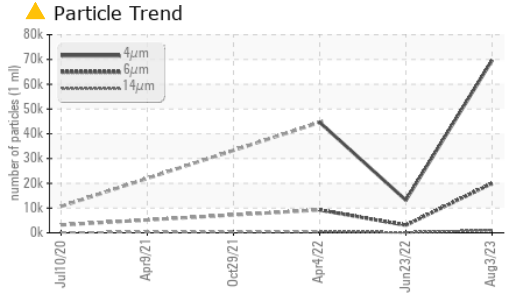
FLUID CLEANLINESS

method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	69709	13167	44613
Particles >6µm	ASTM D7647 >1300	▲ 19962	▲ 3048	▲ 9228
Particles >14µm	ASTM D7647 >80	▲ 1012	▲ 144	▲ 498
Particles >21µm	ASTM D7647 >20	▲ 221	19	▲ 125
Particles >38µm	ASTM D7647 >4	▲ 6	1	4
Particles >71µm	ASTM D7647 >3	0	0	0
Oil Cleanliness	ISO 4406 (c) >--/17/13	▲ 23/21/17	▲ 21/19/14	▲ 20/16

FLUID DEGRADATION

method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g ASTM D8045 1.0	0.39	0.44	0.42

OIL ANALYSIS REPORT

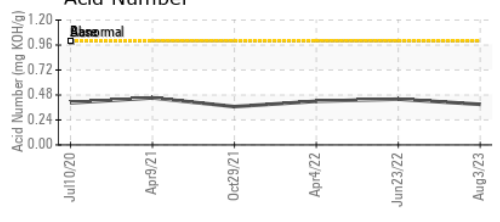
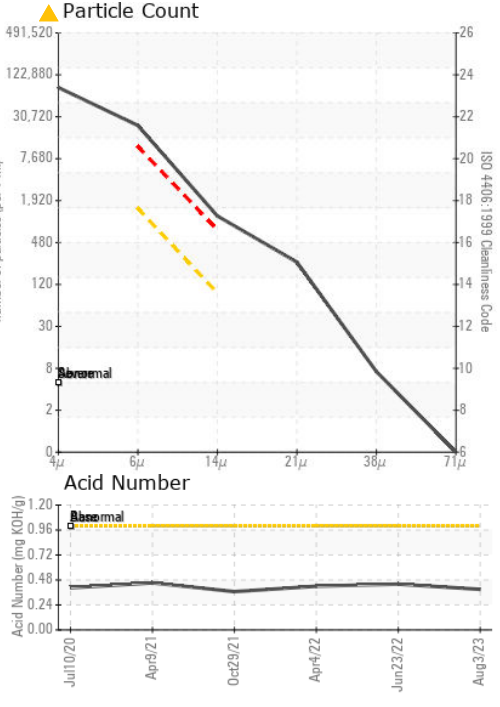
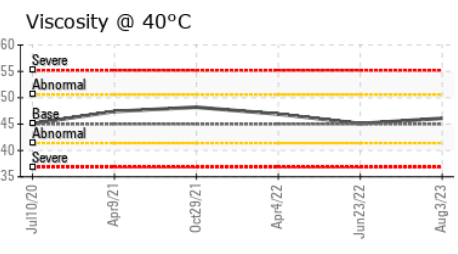
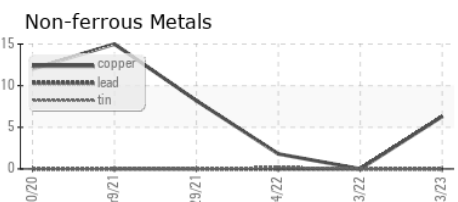
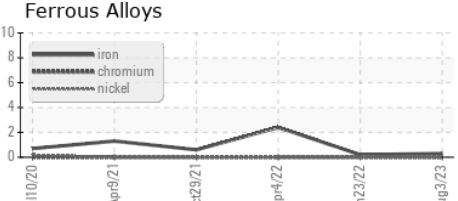


VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance	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	46.1	45.1

SAMPLE IMAGES	method	limit/base	current	history1	history2
Color					
Bottom					

GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : KCPA005679 **Received** : 17 Aug 2023
Lab Number : 05927858 **Diagnosed** : 18 Aug 2023
Unique Number : 10607805 **Diagnostician** : Doug Bogart
Test Package : IND 2 (Additional Tests: KF, PrtCount)

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 US 19153
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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)