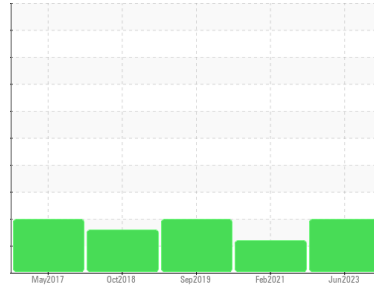




PROBLEM SUMMARY

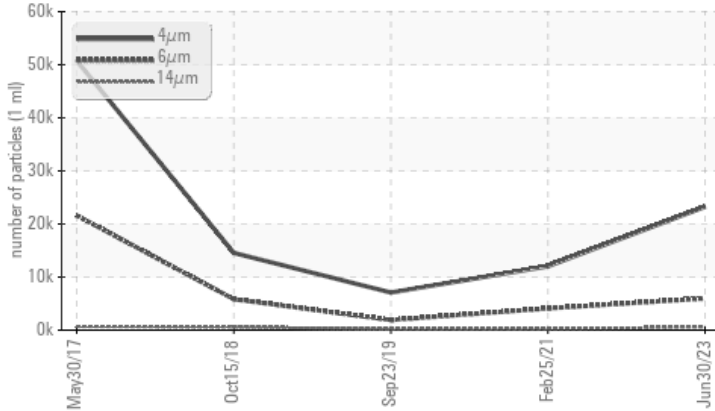
Sample Rating Trend



Machine Id
KAESER AIRCENTER SK 15 4481073 (S/N 2587)
 Component
Compressor
 Fluid
KAESER SIGMA (OEM) S-460 (--- LTR)

COMPONENT CONDITION SUMMARY

▲ Particle Trend



RECOMMENDATION

The filter change at the time of sampling has been noted. Resample at the next service interval to monitor.

PROBLEMATIC TEST RESULTS

Sample Status	ASTM D7647	Limit	ABNORMAL	ABNORMAL	ABNORMAL
Particles >6µm	ASTM D7647	>1300	▲ 5989	▲ 4094	▲ 1899
Particles >14µm	ASTM D7647	>80	▲ 561	▲ 221	▲ 187
Particles >21µm	ASTM D7647	>20	▲ 212	▲ 51	▲ 66
Particles >38µm	ASTM D7647	>4	▲ 17	3	▲ 6
Oil Cleanliness	ISO 4406 (c)	>--/17/13	▲ 22/20/16	▲ 19/15	▲ 18/15

Customer Id: CESWAS
 Sample No.: KCPA004237
 Lab Number: 05903789
 Test Package: IND 2



To manage this report scan the QR code

To discuss the diagnosis or test data:
 Angela Borella +1 800-237-1369
angela.borella@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

25 Feb 2021 Diag: Angela Borella

ISO



Oil and 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



23 Sep 2019 Diag: Jonathan Hester

ISO



Oil and 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



15 Oct 2018 Diag: Jonathan Hester

ISO



Oil and 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





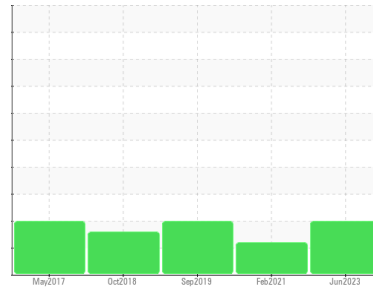
Machine Id
KAESER AIRCENTER SK 15 4481073 (S/N 2587)

Component

Compressor

Fluid

KAESER SIGMA (OEM) S-460 (--- LTR)



DIAGNOSIS

Recommendation

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		KCPA004237	KCP35440	KCP22613
Sample Date	Client Info		30 Jun 2023	25 Feb 2021	23 Sep 2019
Machine Age	hrs	Client Info	48200	37583	31256
Oil Age	hrs	Client Info	0	6017	0
Oil Changed	Client Info		N/A	Changed	Changed
Sample Status			ABNORMAL	ABNORMAL	ABNORMAL

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

ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	<1	<1
Barium	ppm	ASTM D5185m 90	0	0	0
Molybdenum	ppm	ASTM D5185m	0	0	0
Manganese	ppm	ASTM D5185m	0	<1	0
Magnesium	ppm	ASTM D5185m 90	33	20	27
Calcium	ppm	ASTM D5185m 2	<1	0	0
Phosphorus	ppm	ASTM D5185m	1	<1	0
Zinc	ppm	ASTM D5185m	0	6	12
Sulfur	ppm	ASTM D5185m	22905	16015	9671

CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >25	0	2	15
Sodium	ppm	ASTM D5185m	13	11	12
Potassium	ppm	ASTM D5185m >20	1	2	1
Water	%	ASTM D6304 >0.05	0.020	0.010	0.016
ppm Water	ppm	ASTM D6304 >500	207.1	107.5	166.1

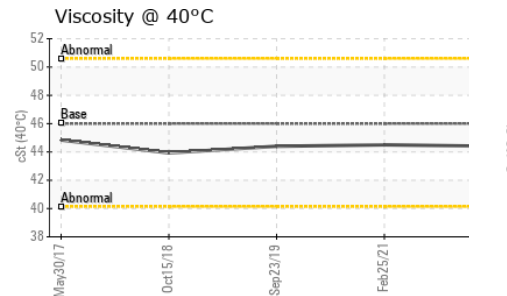
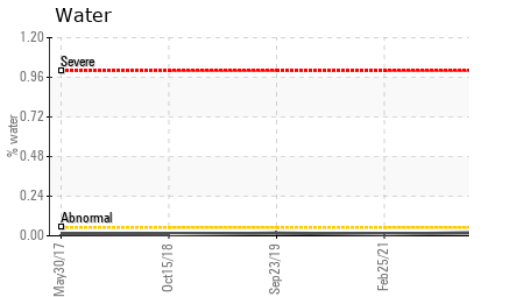
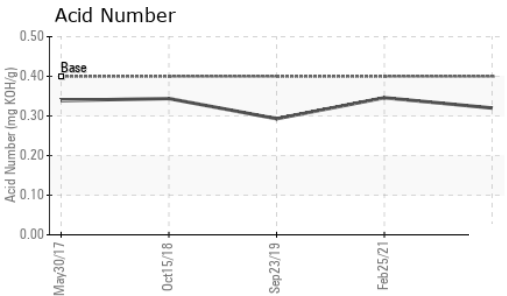
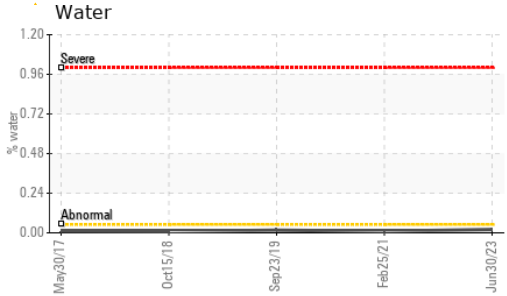
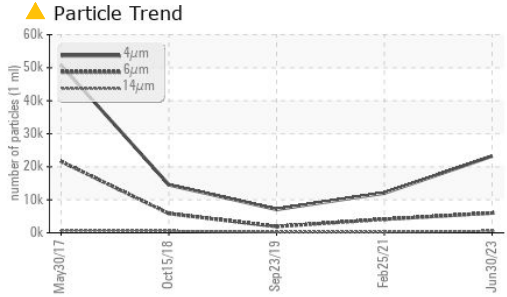
FLUID CLEANLINESS

	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647		23250	12033	7081
Particles >6µm	ASTM D7647 >1300		▲ 5989	▲ 4094	▲ 1899
Particles >14µm	ASTM D7647 >80		▲ 561	▲ 221	▲ 187
Particles >21µm	ASTM D7647 >20		▲ 212	▲ 51	▲ 66
Particles >38µm	ASTM D7647 >4		▲ 17	3	▲ 6
Particles >71µm	ASTM D7647 >3		2	0	▲ 2
Oil Cleanliness	ISO 4406 (c) >--/17/13		▲ 22/20/16	▲ 19/15	▲ 18/15

FLUID DEGRADATION

	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045 0.4	0.32	0.346	0.293

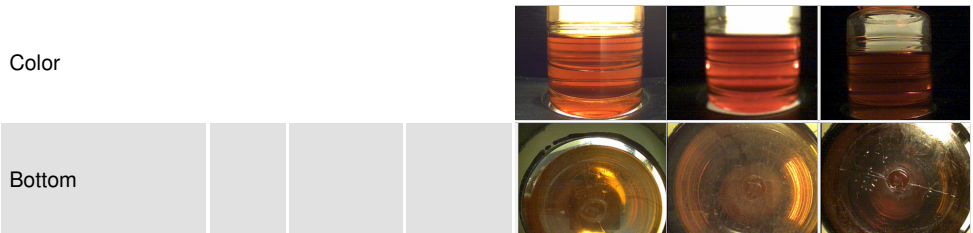
OIL ANALYSIS REPORT



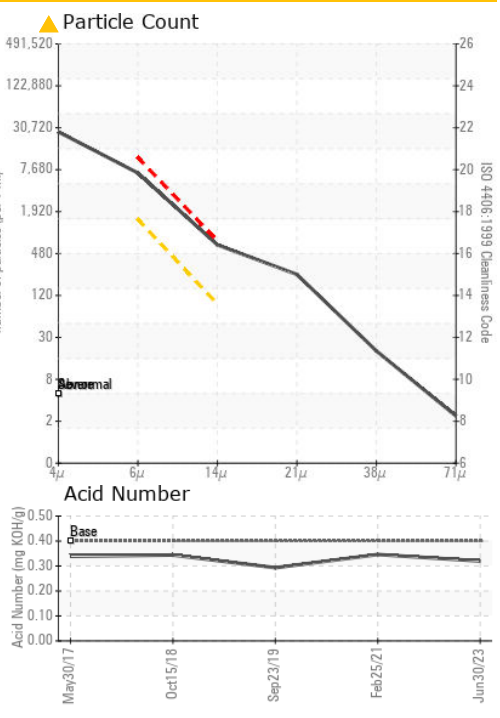
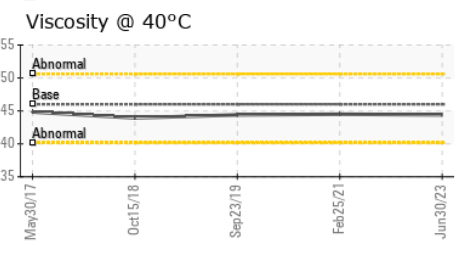
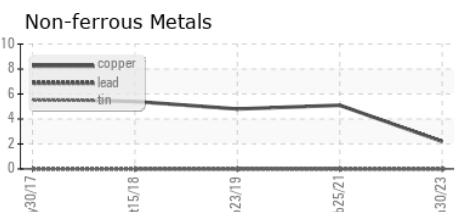
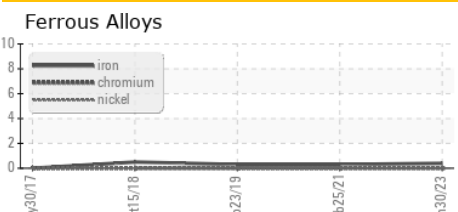
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	LIGHT	LIGHT
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance	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 46	44.4	44.5	44.4

SAMPLE IMAGES	method	limit/base	current	history1	history2
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GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : KCPA004237
Lab Number : 05903789
Unique Number : 10565145
Test Package : IND 2 (Additional Tests: KF, PrtCount)

C & E SERVICES INC - WATERGATE CENTRAL PLANT
 2500 VIRGINIA AVE NW
 WASHINGTON, DC
 US 20037
 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: