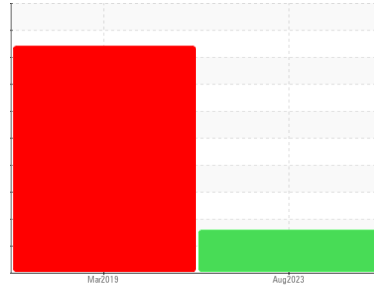




PROBLEM SUMMARY

Sample Rating Trend



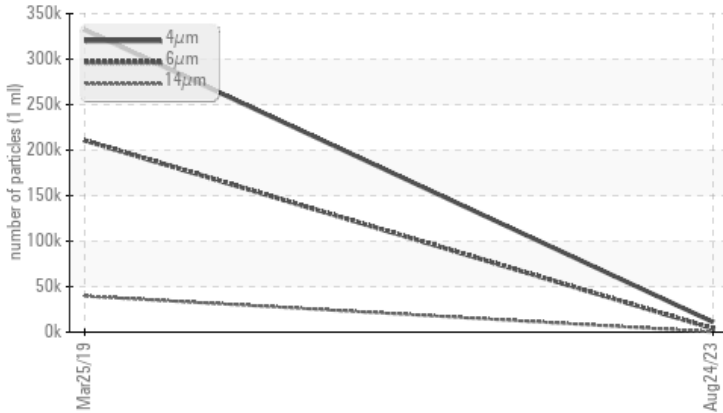
ISO



Machine Id
KAESER SK 20T 6249747 (S/N 1045)
 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	SEVERE	---
Particles >6µm	ASTM D7647	>1300	▲ 3905	● 210703	---
Particles >14µm	ASTM D7647	>80	▲ 297	● 39659	---
Particles >21µm	ASTM D7647	>20	▲ 56	● 9279	---
Oil Cleanliness	ISO 4406 (c)	>--/17/13	▲ 21/19/15	● 25/22	---

Customer Id: DELHOL
 Sample No.: KCPA005258
 Lab Number: 06010819
 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

25 Mar 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.

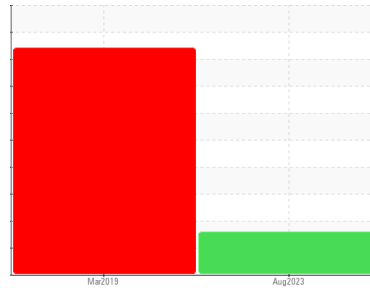
view report





OIL ANALYSIS REPORT

Sample Rating Trend



ISO



Machine Id
KAESER SK 20T 6249747 (S/N 1045)

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		KCPA005258	KCP12832	---
Sample Date	Client Info		24 Aug 2023	25 Mar 2019	---
Machine Age	hrs	Client Info	7280	2243	---
Oil Age	hrs	Client Info	0	2000	---
Oil Changed	Client Info		N/A	Changed	---
Sample Status			ABNORMAL	SEVERE	---

WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >50	0	8	---
Chromium	ppm	ASTM D5185m >10	0	0	---
Nickel	ppm	ASTM D5185m >3	0	0	---
Titanium	ppm	ASTM D5185m >3	0	0	---
Silver	ppm	ASTM D5185m >2	0	0	---
Aluminum	ppm	ASTM D5185m >10	0	<1	---
Lead	ppm	ASTM D5185m >10	0	<1	---
Copper	ppm	ASTM D5185m >50	3	3	---
Tin	ppm	ASTM D5185m >10	0	<1	---
Antimony	ppm	ASTM D5185m	---	0	---
Vanadium	ppm	ASTM D5185m	0	0	---
Cadmium	ppm	ASTM D5185m	0	0	---

ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m 0	0	<1	---
Barium	ppm	ASTM D5185m 90	10	▲ 16	---
Molybdenum	ppm	ASTM D5185m 0	0	0	---
Manganese	ppm	ASTM D5185m	<1	<1	---
Magnesium	ppm	ASTM D5185m 100	48	84	---
Calcium	ppm	ASTM D5185m 0	0	4	---
Phosphorus	ppm	ASTM D5185m 0	2	1	---
Zinc	ppm	ASTM D5185m 0	14	7	---
Sulfur	ppm	ASTM D5185m 23500	19495	25291	---

CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >25	<1	<1	---
Sodium	ppm	ASTM D5185m	12	18	---
Potassium	ppm	ASTM D5185m >20	<1	2	---
Water	%	ASTM D6304 >0.05	0.022	0.019	---
ppm Water	ppm	ASTM D6304 >500	222.4	190	---

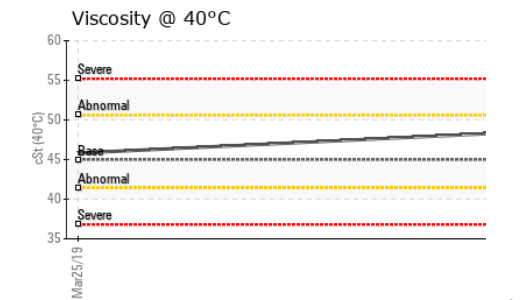
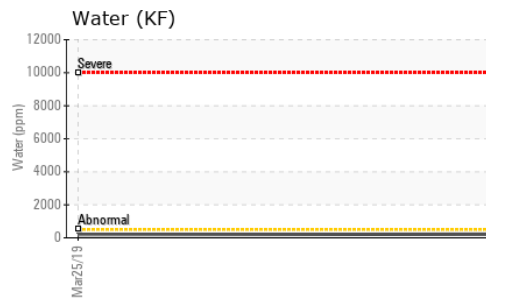
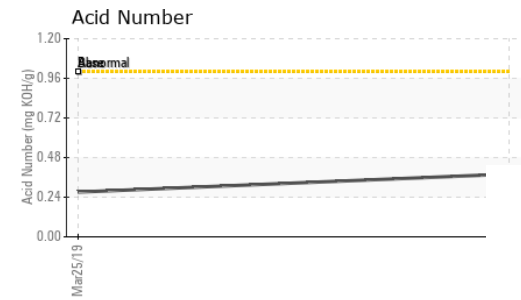
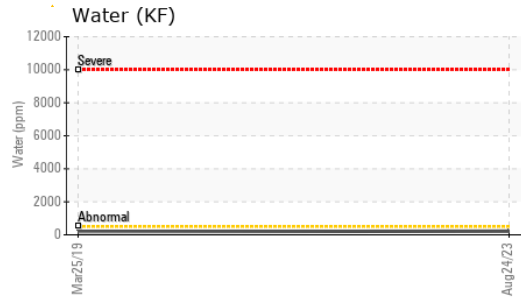
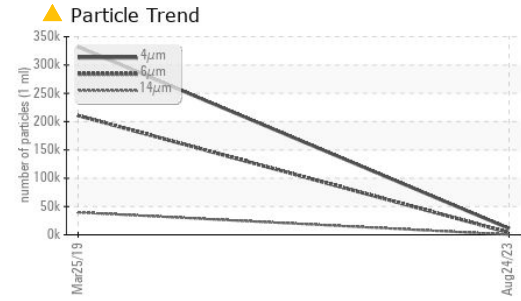
FLUID CLEANLINESS

	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647		11093	332108	---
Particles >6µm	ASTM D7647	>1300	▲ 3905	◆ 210703	---
Particles >14µm	ASTM D7647	>80	▲ 297	◆ 39659	---
Particles >21µm	ASTM D7647	>20	▲ 56	◆ 9279	---
Particles >38µm	ASTM D7647	>4	0	◆ 83	---
Particles >71µm	ASTM D7647	>3	0	1	---
Oil Cleanliness	ISO 4406 (c)	>--/17/13	▲ 21/19/15	◆ 25/22	---

FLUID DEGRADATION

	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045 1.0	0.38	0.271	---

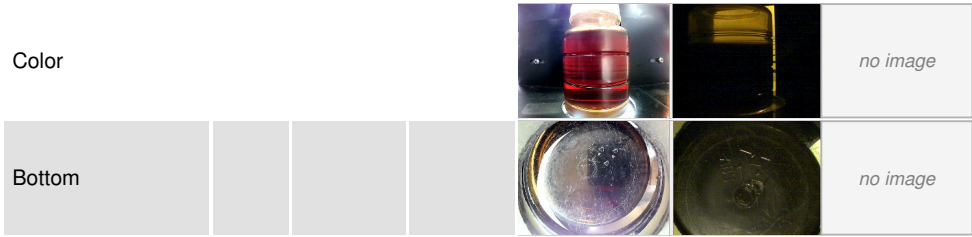
OIL ANALYSIS REPORT



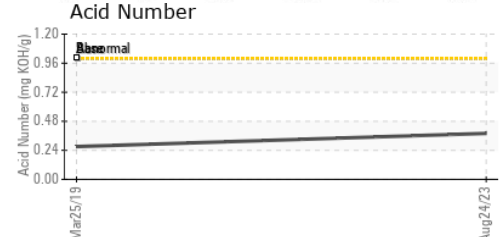
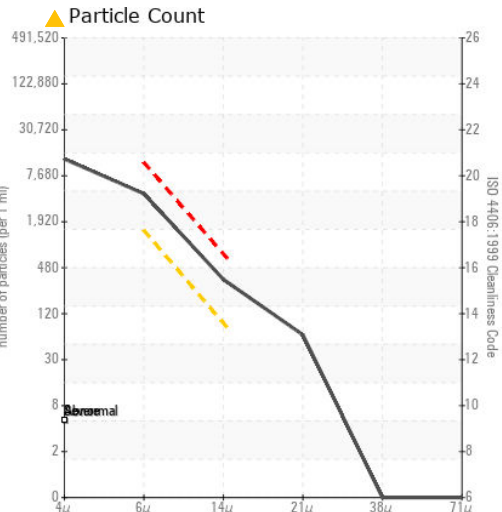
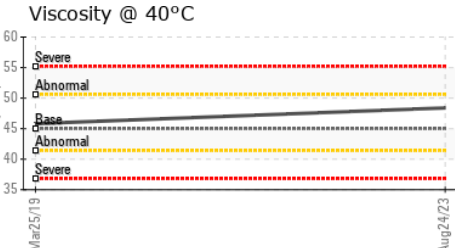
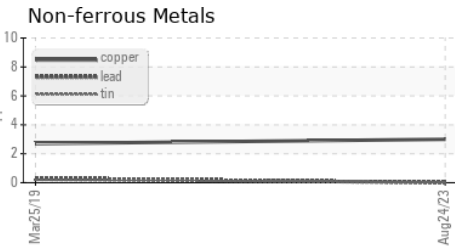
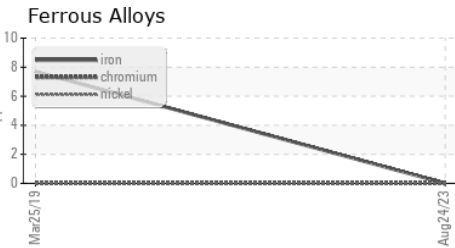
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	LIGHT
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance	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	48.4	45.82

SAMPLE IMAGES	method	limit/base	current	history1	history2
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GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : KCPA005258 **Received** : 17 Nov 2023
Lab Number : 06010819 **Diagnosed** : 20 Nov 2023
Unique Number : 10749963 **Diagnostician** : Don Baldrige
Test Package : IND 2 (Additional Tests: KF, PrtCount)

DELTA TUBE
 4149 GRANGE HALL RD
 HOLLY, MI
 US 48442
 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: