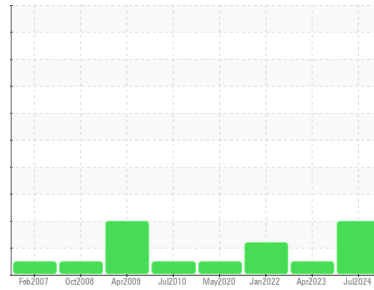




OIL ANALYSIS REPORT

Sample Rating Trend



ISO



Machine Id
KAESER SK-15 2613370 (S/N 1249)
 Component
Compressor
 Fluid
KAESER SIGMA (OEM) S-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	KCPA020668	KCPA001155	KCP41236
Sample Date	Client Info	08 Jul 2024	06 Apr 2023	28 Jan 2022
Machine Age	hrs	11017	1653	8971
Oil Age	hrs	1364	0	1166
Oil Changed	Client Info	Not Chngd	N/A	Not Chngd
Sample Status		ABNORMAL	NORMAL	ATTENTION

WEAR METALS

method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >50	<1	<1
Chromium	ppm	ASTM D5185m >10	0	0
Nickel	ppm	ASTM D5185m >3	<1	0
Titanium	ppm	ASTM D5185m >3	0	0
Silver	ppm	ASTM D5185m >2	0	<1
Aluminum	ppm	ASTM D5185m >10	<1	0
Lead	ppm	ASTM D5185m >10	0	0
Copper	ppm	ASTM D5185m >50	6	15
Tin	ppm	ASTM D5185m >10	0	0
Antimony	ppm	ASTM D5185m	---	---
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
Barium	ppm	ASTM D5185m 90	0	0
Molybdenum	ppm	ASTM D5185m	0	<1
Manganese	ppm	ASTM D5185m	0	<1
Magnesium	ppm	ASTM D5185m 90	25	4
Calcium	ppm	ASTM D5185m 2	0	0
Phosphorus	ppm	ASTM D5185m	0	2
Zinc	ppm	ASTM D5185m	15	21
Sulfur	ppm	ASTM D5185m	22081	22047

CONTAMINANTS

method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >25	<1	0
Sodium	ppm	ASTM D5185m	7	<1
Potassium	ppm	ASTM D5185m >20	2	0
Water	%	ASTM D6304 >0.05	0.017	0.006
ppm Water	ppm	ASTM D6304 >500	178	63.5

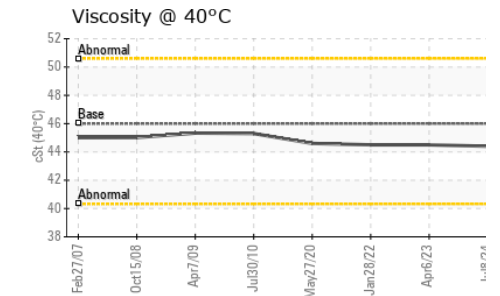
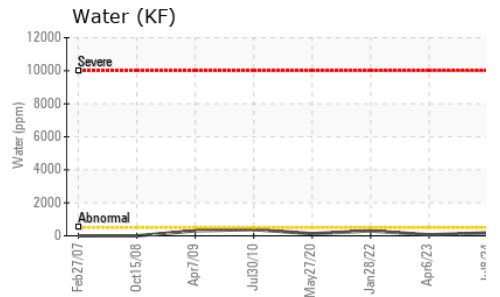
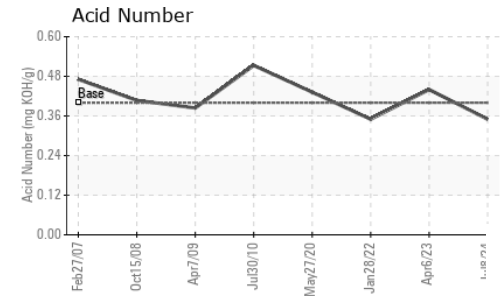
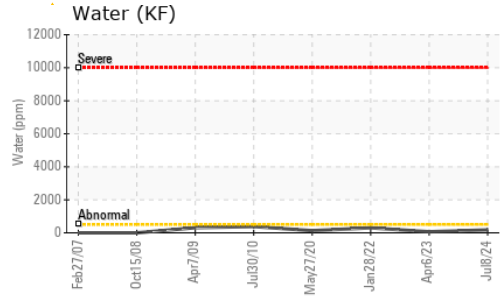
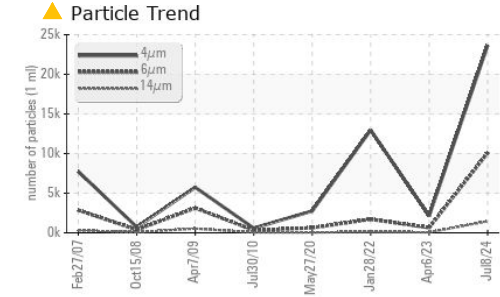
FLUID CLEANLINESS

method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	23649	2134	12965
Particles >6µm	ASTM D7647 >1300	▲ 10080	651	● 1714
Particles >14µm	ASTM D7647 >80	▲ 1458	59	● 116
Particles >21µm	ASTM D7647 >20	▲ 387	18	● 38
Particles >38µm	ASTM D7647 >4	▲ 7	0	2
Particles >71µm	ASTM D7647 >3	1	0	0
Oil Cleanliness	ISO 4406 (c) >--/17/13	▲ 22/21/18	18/17/13	● 18/14

FLUID DEGRADATION

method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045 0.4	0.35	0.44

OIL ANALYSIS REPORT



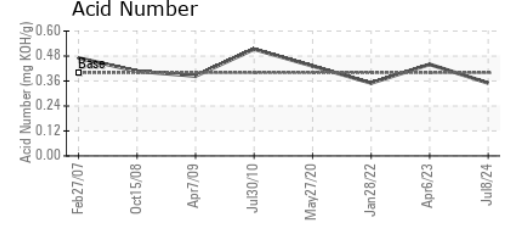
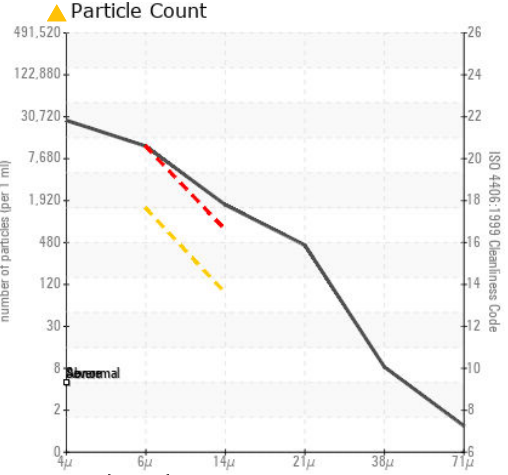
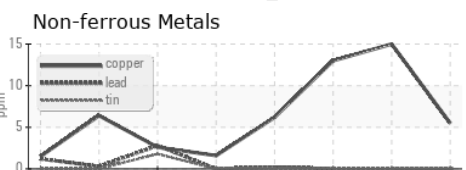
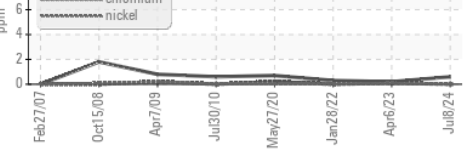
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	LIGHT	VLITE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance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

SAMPLE IMAGES

method	limit/base	current	history1	history2
Color				
Bottom				

GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : KCPA020668 **Received** : 16 Jul 2024
Lab Number : 06238386 **Tested** : 17 Jul 2024
Unique Number : 11127220 **Diagnosed** : 18 Jul 2024 - Don Baldrige
Test Package : IND 2 (Additional Tests: KF, PrtCount)

INDUSTRIAL STEEL AND BOILER SVC
 939 CHICOPEE ST
 CHICOPEE, MA
 US 01013
 Contact: GREG EKIMOVICH
 greg@isbsservices.com

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)