OIL ANALYSIS REPORT
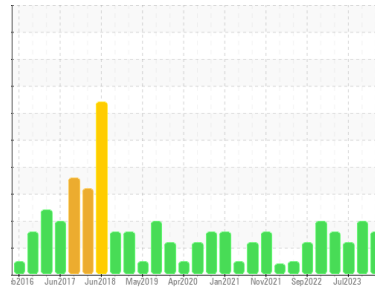
KAESER COMPRESSORS
Built for a lifetime.

Sample Rating Trend

ISO

Machine Id
KAESER AS 25T 5381320 (S/N 1004)
Component
Compressor
Fluid
KAESER SIGMA (OEM) S-460 (--- LTR)

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		**KC06062710**	KC06007749	KC05909473
Sample Date		Client Info		**08 Jan 2024**	31 Oct 2023	18 Jul 2023
Machine Age	hrs	Client Info		**57334**	55675	53157
Oil Age	hrs	Client Info		**0**	0	0
Oil Changed		Client Info		**N/A**	N/A	N/A
Sample Status				**ABNORMAL**	ABNORMAL	ATTENTION

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>50	**0**	0	0
Chromium	ppm	ASTM D5185m	>10	**<1**	0	0
Nickel	ppm	ASTM D5185m	>3	**0**	0	0
Titanium	ppm	ASTM D5185m	>3	**0**	<1	0
Silver	ppm	ASTM D5185m	>2	**0**	0	0
Aluminum	ppm	ASTM D5185m	>10	**2**	0	0
Lead	ppm	ASTM D5185m	>10	**0**	0	0
Copper	ppm	ASTM D5185m	>50	**9**	13	8
Tin	ppm	ASTM D5185m	>10	**0**	0	0
Vanadium	ppm	ASTM D5185m		**0**	<1	0
Cadmium	ppm	ASTM D5185m		**0**	0	0

ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		**0**	0	0
Barium	ppm	ASTM D5185m	90	**12**	0	0
Molybdenum	ppm	ASTM D5185m		**0**	0	0
Manganese	ppm	ASTM D5185m		**0**	0	0
Magnesium	ppm	ASTM D5185m	90	**22**	0	1
Calcium	ppm	ASTM D5185m	2	**<1**	0	0
Phosphorus	ppm	ASTM D5185m		**60**	0	1
Zinc	ppm	ASTM D5185m		**0**	0	0

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	**0**	0	<1
Sodium	ppm	ASTM D5185m		**2**	<1	<1
Potassium	ppm	ASTM D5185m	>20	**2**	0	2
Water	%	ASTM D6304	>0.05	**0.017**	0.006	0.008
ppm Water	ppm	ASTM D6304	>500	**175**	66.7	80.1

FLUID CLEANLINESS		method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647		**11547**	19818	1806
Particles >6µm		ASTM D7647	>1300	▲ **4213**	▲ 6469	616
Particles >14µm		ASTM D7647	>80	▲ **458**	▲ 628	▲ 90
Particles >21µm		ASTM D7647	>20	▲ **111**	▲ 163	▲ 31
Particles >38µm		ASTM D7647	>4	**3**	▲ 5	2
Particles >71µm		ASTM D7647	>3	**0**	0	0
Oil Cleanliness		ISO 4406 (c)	>--/17/13	▲ **21/19/16**	▲ 21/20/16	▲ 18/16/14

FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	0.4	**0.32**	0.29	0.28

OIL ANALYSIS REPORT

KAESER COMPRESSORS — Built for a lifetime.™

Particle Trend

(graph — number of particles (1 ml) vs date: 4µm, 6µm, 14µm)

Water (KF)

(graph — Water (ppm) vs date; Severe, Abnormal lines)

Acid Number

(graph — Acid Number (mg KOH/g) vs date; Base line)

Water (KF)

(graph — Water (ppm) vs date; Severe, Abnormal lines)

Viscosity @ 40°C

(graph — cSt (40°C) vs date; Abnormal, Base, Abnormal lines)
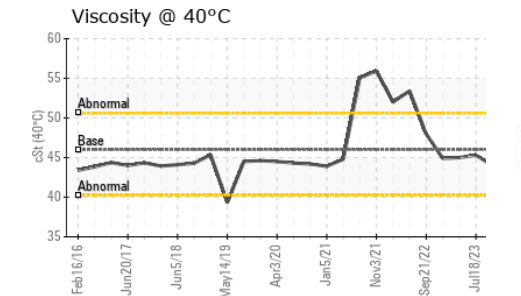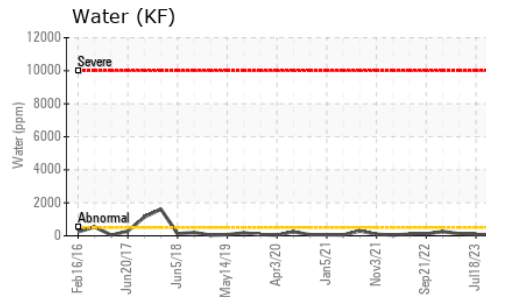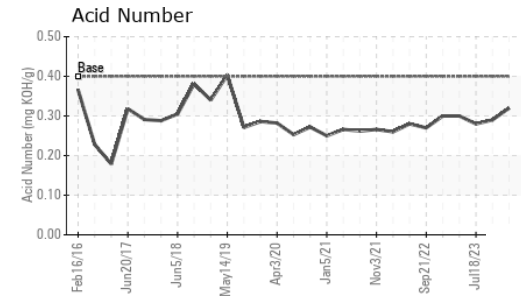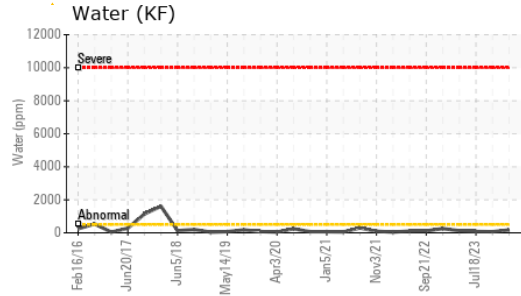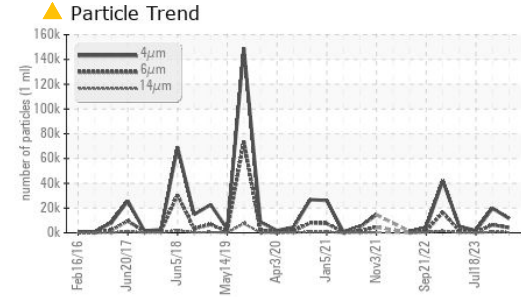
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	**NONE**	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	**NONE**	NONE	NONE
Precipitate	scalar	*Visual	NONE	**NONE**	NONE	NONE
Silt	scalar	*Visual	NONE	**NONE**	NONE	NONE
Debris	scalar	*Visual	NONE	**NONE**	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	**NONE**	NONE	NONE
Appearance	scalar	*Visual	NORML	**NORML**	NORML	NORML
Odor	scalar	*Visual	NORML	**NORML**	NORML	NORML
Emulsified Water	scalar	*Visual	>0.05	**NEG**	NEG	NEG
Free Water	scalar	*Visual		**NEG**	NEG	NEG

FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	46	**44.3**	44.0	45.3

SAMPLE IMAGES	method	limit/base	current	history1	history2
Color			(image)	(image)	(image)
Bottom			(image)	(image)	(image)
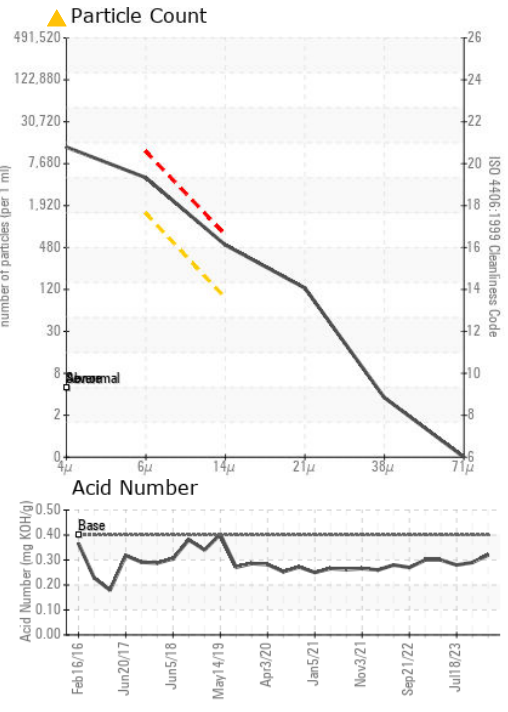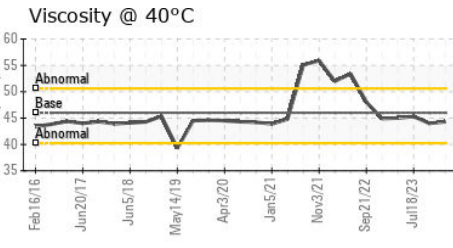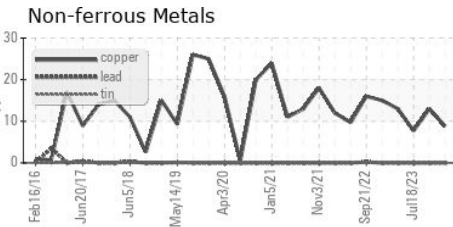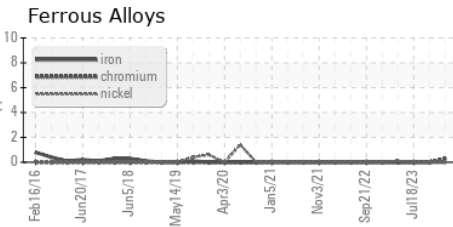
GRAPHS

Ferrous Alloys

(graph — ppm vs date: iron, chromium, nickel)

Non-ferrous Metals

(graph — ppm vs date: copper, lead, tin)

Viscosity @ 40°C

(graph — cSt (40°C) vs date; Abnormal, Base, Abnormal lines)

Particle Count

(graph — number of particles (per 1 ml) vs particle size 4µ–71µ; ISO 4406:1999 Cleanliness Code; Abnormal line)

Acid Number

(graph — Acid Number (mg KOH/g) vs date; Base line)

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)

Certificate L2367