KAESER COMPRESSORS
Built for a lifetime.

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
KAESER SK 20 4531417 (S/N 1198)
Component
Compressor
Fluid
KAESER SIGMA (OEM) M-460 (--- QTS)

RECOMMENDATION

Resample at the next service interval to monitor.

WEAR

All component wear rates are normal.

CONTAMINATION

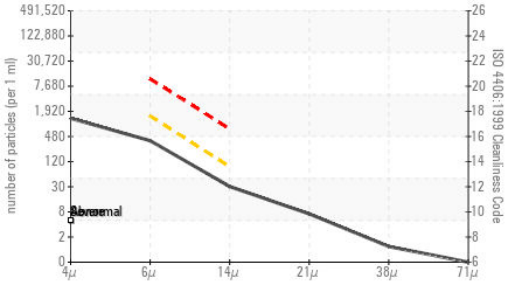
There is no indication of any contamination in the oil. The amount and size of particulates present in the system are acceptable.

FLUID CONDITION

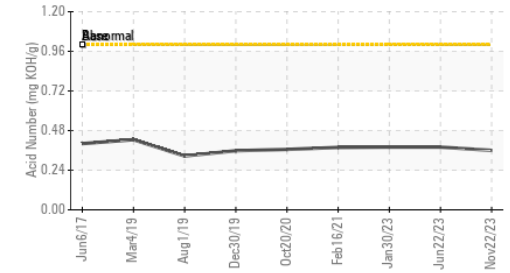
The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		KCPA010908	KCPA002155	KCP55408
Sample Date		Client Info		22 Nov 2023	22 Jun 2023	30 Jan 2023
Machine Age	hrs	Client Info		92064	88994	85565
Oil Age	hrs	Client Info		0	0	3862
Filter Age	hrs	Client Info		0	0	3862
Oil Changed		Client Info		N/A	N/A	Changed
Filter Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	ATTENTION	ABNORMAL
Iron	ppm	ASTM D5185m	>50	0	0	4
Chromium	ppm	ASTM D5185m	>10	0	0	0
Nickel	ppm	ASTM D5185m	>3	0	0	<1
Titanium	ppm	ASTM D5185m	>3	0	<1	0
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>10	0	0	<1
Lead	ppm	ASTM D5185m	>10	0	0	0
Copper	ppm	ASTM D5185m	>50	4	3	7
Tin	ppm	ASTM D5185m	>10	0	<1	0
Vanadium	ppm	ASTM D5185m		0	0	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Silicon	ppm	ASTM D5185m	>25	0	<1	0
Potassium	ppm	ASTM D5185m	>20	0	1	1
Water	%	ASTM D6304	>0.05	0.015	0.005	▲ 0.059
ppm Water	ppm	ASTM D6304	>500	150	59.4	▲ 590
Particles >4µm		ASTM D7647		1145	4329	---
Particles >6µm		ASTM D7647	>1300	335	● 1477	---
Particles >14µm		ASTM D7647	>80	27	● 92	---
Particles >21µm		ASTM D7647	>20	6	21	---
Particles >38µm		ASTM D7647	>4	1	1	---
Particles >71µm		ASTM D7647	>3	0	0	---
Oil Cleanliness		ISO 4406 (c)	>--/17/13	17/16/12	● 19/18/14	---
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	LIGHT	NONE	▲ MODER
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	▲ 0.2%
Sodium	ppm	ASTM D5185m		<1	1	0
Boron	ppm	ASTM D5185m	0	0	0	0
Barium	ppm	ASTM D5185m	90	0	1	3
Molybdenum	ppm	ASTM D5185m	0	0	0	0
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m	100	0	9	2
Calcium	ppm	ASTM D5185m	0	0	0	0
Phosphorus	ppm	ASTM D5185m	0	2	2	3
Zinc	ppm	ASTM D5185m	0	0	3	3
Sulfur	ppm	ASTM D5185m	23500	18391	21498	18629
Acid Number (AN)	mg KOH/g	ASTM D8045	1.0	0.36	0.38	0.38
Visc @ 40°C	cSt	ASTM D445	45	49.5	47.9	49.1

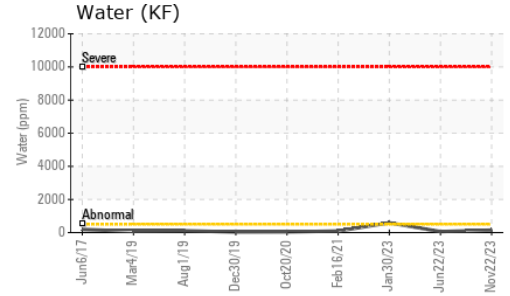
Particle Count



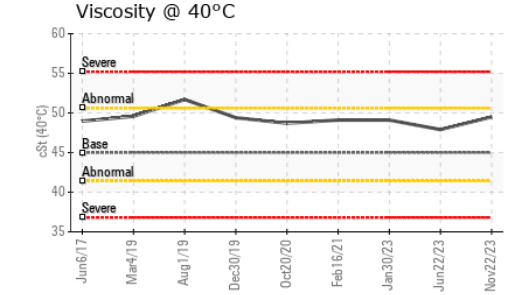
Acid Number



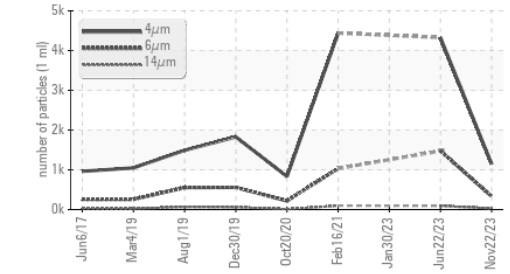
Water (KF)



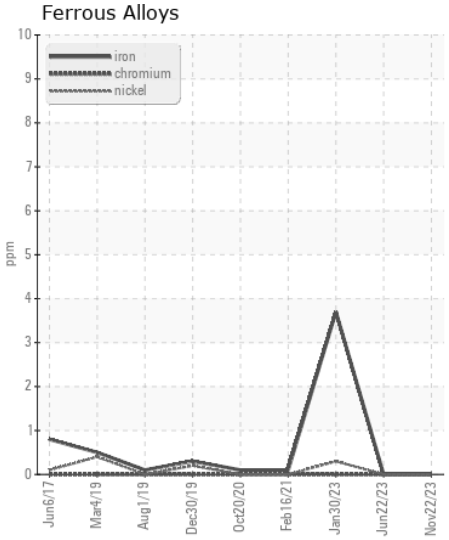
Viscosity @ 40°C



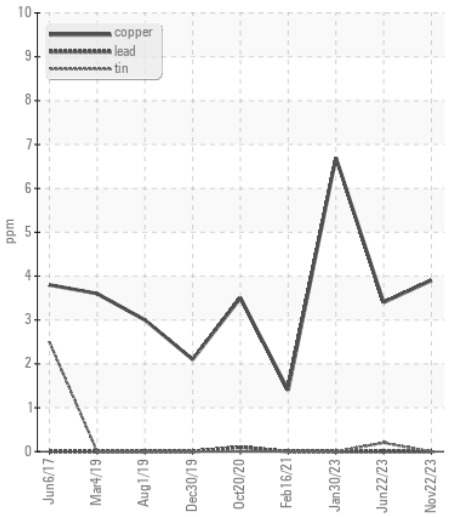
Particle Trend



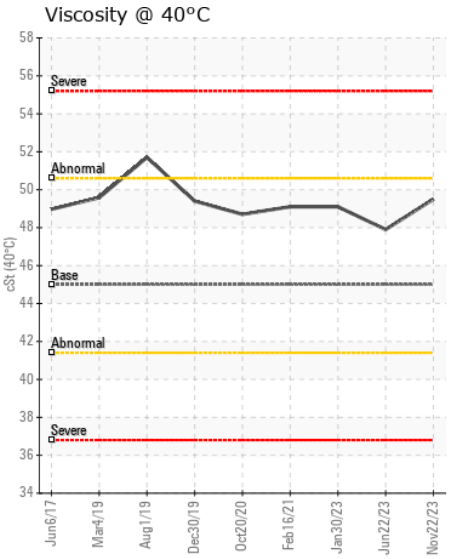
Ferrous Alloys



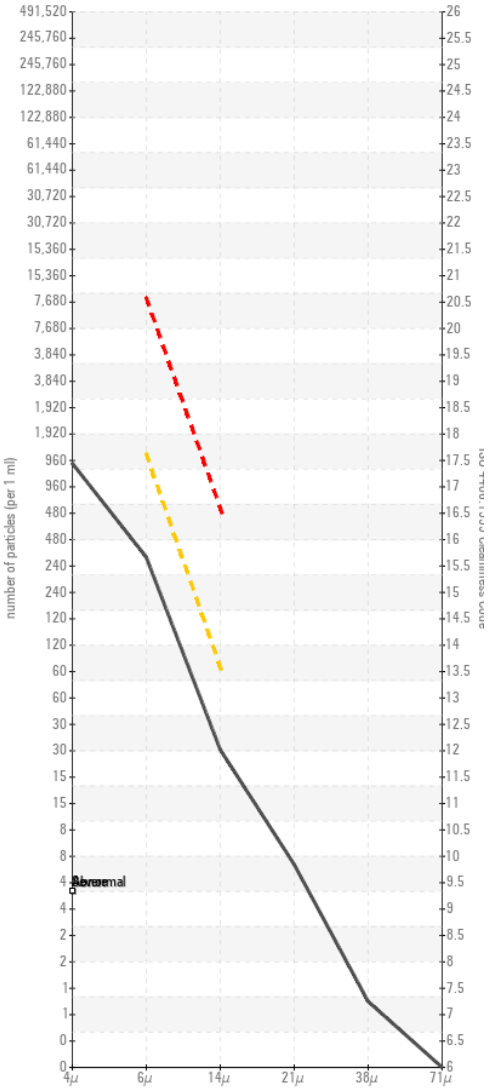
Non-ferrous Metals



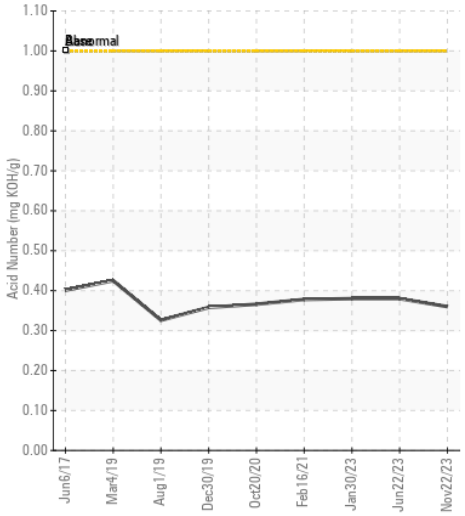
Viscosity @ 40°C



Particle Count



Acid Number



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : KCPA010908
Lab Number : 06026436
Unique Number : 10776227
Test Package : IND 2 (Additional Tests: KF, PrtCount)

Received : 06 Dec 2023
Tested : 07 Dec 2023
Diagnosed : 07 Dec 2023 - Don Baldridge

Certificate L2367

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)

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