

Machine Id KAESER SM 11 1610110 (S/N 1054) Component Compressor KAESER SIGMA (OEM) M-460 (--- GAL)

RECOMMENDATION

No corrective action is recommended at this time. Resample at the next service interval to monitor.



All component wear rates are normal.

CONTAMINATION

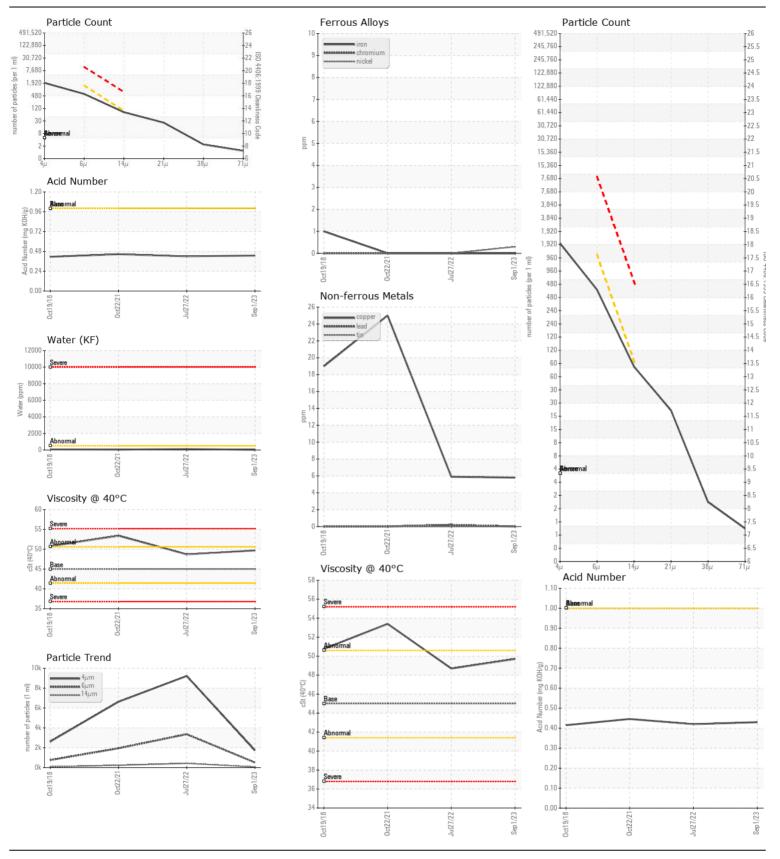
There is no indication of any contamination in the oil. The amount and size of particulates present in the system are acceptable.

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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		KCPA005223	KCP51110	KCP38730
Sample Date		Client Info		01 Sep 2023	27 Jul 2022	22 Oct 2021
Machine Age	hrs	Client Info		0	46883	44819
Oil Age	hrs	Client Info		0	2064	9045
Filter Age	hrs	Client Info		0	2064	9045
Oil Changed		Client Info		N/A	Changed	Changed
Filter Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	ABNORMAL	ABNORMAL
Iron	ppm	ASTM D5185m	>50	0	0	0
Chromium	mqq	ASTM D5185m	>10	0	0	0
Nickel	ppm	ASTM D5185m	>3	<1	0	0
Titanium	ppm	ASTM D5185m	>3	0	0	0
Silver	ppm	ASTM D5185m	>2	0	0	<1
Aluminum	ppm	ASTM D5185m	>10	0	<1	0
Lead	ppm	ASTM D5185m	>10	0	<1	0
Copper	ppm	ASTM D5185m	>50	6	6	25
Tin	ppm	ASTM D5185m	>10	0	0	0
Vanadium	ppm	ASTM D5185m	210	0	0	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Scalai	visual	NONL			NONL
Silicon	ppm	ASTM D5185m	>25	<1	0	2
Potassium	ppm	ASTM D5185m	>20	<1	1	0
Water	%	ASTM D6304	>0.05	0.003	0.011	0.005
ppm Water	ppm	ASTM D6304	>500	32.5	118.5	52.2
Particles >4µm	le le	ASTM D7647		1743	9217	6622
Particles >6µm		ASTM D7647	>1300	516	▲ 3359	▲ 1945
Particles >14µm		ASTM D7647	>80	69	433	2 39
Particles >21µm		ASTM D7647	>20	22	<u> </u>	▲ 80
Particles >38µm		ASTM D7647	>4	2	3	2
Particles >71µm		ASTM D7647	>3	1	0	0
Oil Cleanliness		ISO 4406 (c)	>/17/13	18/16/13	▲ 20/19/16	▲ 18/15
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	LIGHT	LIGHT
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
Sodium	ppm	ASTM D5185m		0	0	0
Boron	ppm	ASTM D5185m	0	0	0	1
Barium	ppm	ASTM D5185m	90	0	0	2
Molybdenum	ppm	ASTM D5185m	0	0	0	0
Manganese	ppm	ASTM D5185m		0	0	0
Magnesium	ppm	ASTM D5185m	100	2	27	4
Calcium	ppm	ASTM D5185m	0	0	0	0
Phosphorus	ppm	ASTM D5185m		2	0	4
Zinc	ppm	ASTM D5185m	0	5	4	0
Sulfur	ppm	ASTM D5185m	23500	20813	18227	18901
Acid Number (AN)	mg KOH/g	ASTM D8045	1.0	0.43	0.42	0.446
Visc @ 40°C	cSt	ASTM D445	45	49.7	48.7	53.4



G & K MACHINE CO Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513 : KCPA005223 4833 NEWPORT ST Sample No. Received : 21 Sep 2023 Lab Number : 05957682 COMMERCE CITY, CO Tested : 22 Sep 2023 : 22 Sep 2023 - Doug Bogart Unique Number : 10658895 US 80022 Diagnosed Test Package : IND 2 (Additional Tests: KF, PrtCount) Contact: Service Manager 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. T: F: Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

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Contact/Location: Service Manager - GKMCOM