

Machine Id 8291057 (S/N 1295) Component Compressor Fluid KAESER SIGMA (OEM) M-460 (--- GAL)

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. We were unable to perform a particle count due to a high concentration of particles present in this sample.



All component wear rates are normal.

CONTAMINATION

Moderate concentration of visible dirt/debris present in the oil.

FLUID CONDITION

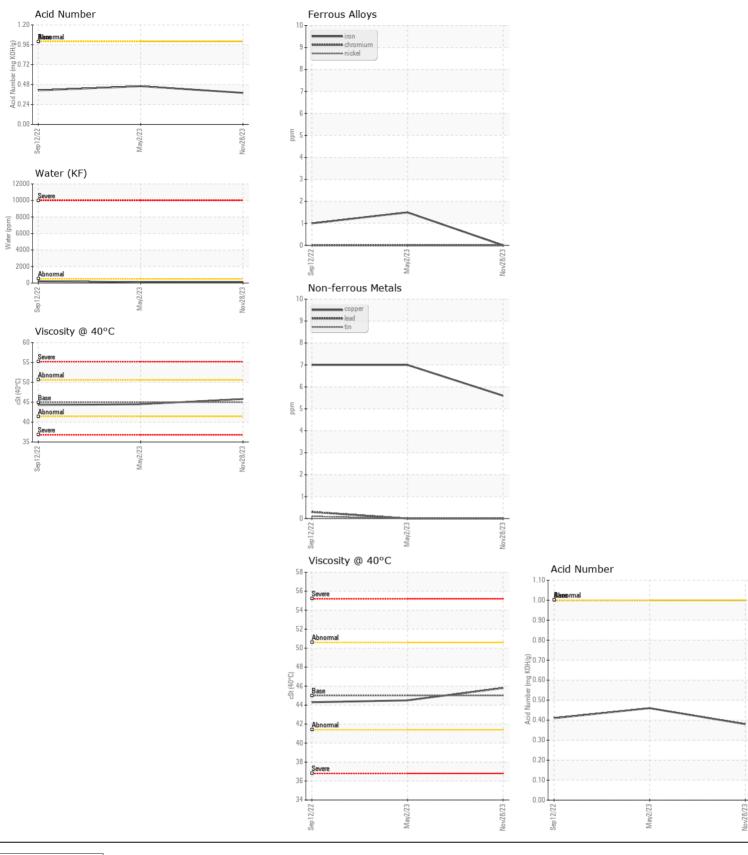
The AN level is acceptable for this fluid. The condition of the oil is acceptable for the time in service.

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Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		KCPA010906	KCP52314	KCP44544
Sample Date		Client Info		28 Nov 2023	02 May 2023	12 Sep 2022
Machine Age	hrs	Client Info		6489	4210	1842
Oil Age	hrs	Client Info		0	4210	1841
Filter Age	hrs	Client Info		0	4210	1841
Oil Changed		Client Info		N/A	Changed	Changed
Filter Changed		Client Info		Changed	Changed	Changed
Sample Status				ABNORMAL	ABNORMAL	NORMAL
Iron	ppm	ASTM D5185m	>50	0	2	1
Chromium	ppm	ASTM D5185m	>10	0	0	0
Nickel	ppm	ASTM D5185m	>3	0	0	0
Titanium	ppm	ASTM D5185m	>3	0	0	0
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>10	0	0	<1
Lead	ppm	ASTM D5185m	>10	0	0	<1
Copper	ppm	ASTM D5185m	>50	6	7	7
Tin	ppm	ASTM D5185m	>10	0	0	<1
Vanadium	ppm	ASTM D5185m		0	0	0
White Metal	scalar	*Visual	NONE	NONE	LIGHT	LIGHT
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Silicon	nom	ASTM D5185m	>25	0	0	<1
Potassium	ppm	ASTM D5185m	>20	0 <1	6	8
Water	ppm %	ASTM D5185III	>2.05	0.009	0.011	0.021
ppm Water	ppm	ASTM D0304	>500	93	112.2	215.8
Particles >4µm	ррп	ASTM D0304 ASTM D7647	>500		112.2	6288
Particles >6µm		ASTM D7647	>1300			1070
Particles >14µm		ASTM D7647	>80			31
Particles >21µm		ASTM D7647	>20			7
Particles >38µm		ASTM D7647	>4			1
Particles >71µm		ASTM D7647				0
Oil Cleanliness		ISO 4406 (c)	>/17/13			20/17/12
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE		▲ MODER	VLITE
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		11	12	9
Boron	ppm	ASTM D5185m	0	0	0	0
Barium	ppm	ASTM D5185m	90	0	7	0
Molybdenum	ppm	ASTM D5185m	0	0	0	0
Manganese	ppm	ASTM D5185m	105	1	<1	<1
Magnesium	ppm	ASTM D5185m		25	43	52
Calcium	ppm	ASTM D5185m	0	0	0	<1
Phosphorus	ppm	ASTM D5185m		2	2	9
Zinc	ppm	ASTM D5185m	0	3	16	4
Sulfur	ppm	ASTM D5185m	23500	16930	19971	21086
Acid Number (AN)	mg KOH/g	ASTM D8045	1.0	0.38	0.46	0.41

Visc @ 40°C cSt ASTM D445 45

44.5 44.3

45.8



**RCI METAL WORKS** Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513 Sample No. : KCPA010906 Received : 06 Dec 2023 6701 N FRANKLIN AVE Lab Number : 06026431 Tested :07 Dec 2023 LOVELAND, CO Diagnosed Unique Number : 10776222 : 07 Dec 2023 - Don Baldridge US 80538 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: Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012) F:

Contact/Location: Service Manager - RCILOV