

Machine Id KAESER CSD 125 7941425 (S/N 1084) 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.

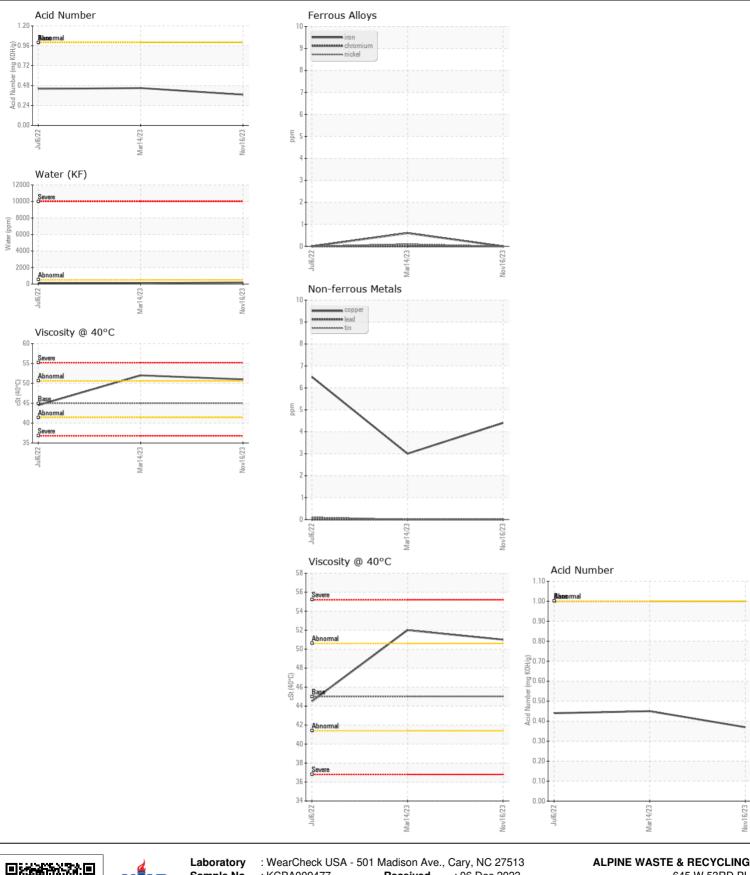
CONTAMINATION

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 suitable for further service.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		KCPA009477	KCPA000258	KCP45381
Sample Date		Client Info		16 Nov 2023	14 Mar 2023	06 Jul 2022
Machine Age	hrs	Client Info		10767	7798	4428
Oil Age	hrs	Client Info		0	0	4428
Filter Age	hrs	Client Info		0	0	4428
Oil Changed		Client Info		N/A	N/A	Changed
Filter Changed		Client Info		Changed	Changed	Changed
Sample Status				ABNORMAL	ABNORMAL	ABNORMAL
·····						
Iron	ppm	ASTM D5185m	>50	0	<1	0
Chromium	ppm	ASTM D5185m	>10	0	0	0
Nickel	ppm	ASTM D5185m	>3	0	<1	0
Titanium	ppm	ASTM D5185m	>3	0	0	0
Silver	ppm	ASTM D5185m	>2	0	0	<1
Aluminum	ppm	ASTM D5185m	>10	0	1	<1
Lead	ppm	ASTM D5185m	>10	0	0	0
Copper	ppm	ASTM D5185m	>50	4	3	6
Tin	ppm	ASTM D5185m	>10	0	0	<1
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	۰ <1	2	<1
Water	%	ASTM D6304	>0.05	0.018	0.011	0.013
ppm Water	ppm	ASTM D6304	>500	188	114.8	136.6
Particles >4µm	PPIII	ASTM D7647	2000		139511	11630
Particles >6µm		ASTM D7647	>1300		▲ 26388	▲ 3290
Particles >14µm		ASTM D7647	>80		100	275
Particles >21µm		ASTM D7647	>20		7	▲ 53
Particles >38µm		ASTM D7647	>4		1	3
Particles >71µm		ASTM D7647	>3		0	1
Oil Cleanliness		ISO 4406 (c)	>/17/13		A 24/22/14	21/19/15
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE		NONE	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
Cadium					0	0
Sodium	ppm	ASTM D5185m	0	11	0	0
Boron	ppm	ASTM D5185m	0	0	0	0
Barium	ppm	ASTM D5185m	90	2	58	0
Molybdenum	ppm	ASTM D5185m	0	0	0	0
Manganese Magnesium	ppm	ASTM D5185m	100	<1 27	<1	0
Calcium	ppm	ASTM D5185m	100	27	55	6
	ppm	ASTM D5185m	0	0 2	1	0
Phosphorus Zinc	ppm	ASTM D5185m ASTM D5185m	0		7	0
Sulfur	ppm ppm	ASTM D5185m	23500	0	22249	16768
Acid Number (AN)	mg KOH/g	ASTM D5185III ASTM D8045		17816	0.45	0.44
Visc @ 40°C	cSt	ASTM D8045 ASTM D445	1.0 45	0.37 51.0	0.45 52.0	44.5
150 @ 40 0	COL	ASTIVI D445	40	51.0	52.0	44.0



ALPINE WASTE & RECYCLING Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513 Sample No. : KCPA009477 Received : 06 Dec 2023 645 W 53RD PL Lab Number : 06026423 Tested :07 Dec 2023 DENVER, CO Unique Number : 10776214 Diagnosed : 07 Dec 2023 - Don Baldridge US 80216 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: