

PROBLEM SUMMARY

KAESER 7239264

Component Compressor Fluid KAESER SIGMA (OEM) S-460 (--- GAL)

COMPONENT CONDITION SUMMARY







RECOMMENDATION

Oil and filter change at the time of sampling has been noted. We recommend an early resample in 500 hours to monitor this condition.

PROBLEMATIC T	EST RE	SULTS				
Sample Status				SEVERE	ABNORMAL	ABNORMAL
Silicon	ppm	ASTM D5185m	>25	🛑 59	<mark>▲</mark> 38	<u>∧</u> 62
Particles >14µm		ASTM D7647	>80	<u> </u>		47
Particles >21µm		ASTM D7647	>20	A 31		9
Oil Cleanliness		ISO 4406 (c)	>/17/13	A 18/17/14		18/16/13

Customer Id: TREASH Sample No.: KC123200 Lab Number: 05930381 Test Package: IND 2



To manage this report scan the QR code

To discuss the diagnosis or test data: Jonathan Hester +1 919-379-4092 x4092 jhester@wearcheckusa.com

To change component or sample information: Customer Service +1 1-800-237-1369 customerservice@wearcheck.com

RECOMMENDED ACTIONS					
Action	Status	Date	Done By	Description	
Change Fluid			?	Oil and filter change at the time of sampling has been noted.	
Change Filter			?	Oil and filter change at the time of sampling has been noted.	

HISTORICAL DIAGNOSIS



16 May 2023 Diag: Jonathan Hester

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. Moderate concentration of visible dirt/debris present in the oil. Elemental level of silicon (Si) above normal indicating ingress of seal material. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.



view report

10 Aug 2022 Diag: Angela Borella



No corrective action is recommended at this time. Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.All component wear rates are normal. Elemental level of silicon (Si) above normal indicating ingress of seal material. The amount and size of particulates present in the system are acceptable. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

06 Dec 2021 Diag: Doug Bogart



No corrective action is recommended at this time. Resample at the next service interval to monitor.All component wear rates are normal. Elemental level of silicon (Si) above normal. The amount and size of particulates present in the system are acceptable. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.









OIL ANALYSIS REPORT

Sample Rating Trend



Machine Id KAESER 7239264 Component

Compressor Fluid KAESER SIGMA (OEM) S-460 (--- GAL)

DIAGNOSIS

Recommendation

Oil and filter change at the time of sampling has been noted. We recommend an early resample in 500 hours to monitor this condition.

Wear

All component wear rates are normal.

Contamination

There is a moderate amount of particulates present in the oil. Elemental level of silicon (Si) above normal indicating ingress of seal material.

Fluid Condition

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

SAMPLE INFORM	ALION	method	limit/base	current	nistory i	nistory2
Sample Number		Client Info		KC123200	KC101227	KC102686
Sample Date		Client Info		16 Aug 2023	16 May 2023	10 Aug 2022
Machine Age	hrs	Client Info		9117	8451	6678
Oil Age	hrs	Client Info		6521	1775	4404
Oil Changed		Client Info		Changed	Not Changd	Changed
Sample Status				SEVERE	ABNORMAL	ABNORMAL
		ام مالم می	line it //s a a a		Intertowned	histow.0
WEAR METALS		method	limit/base	current	nistory i	nistory2
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	0	0
Lead	ppm	ASTM D5185m	>10	0	0	0
Copper	ppm	ASTM D5185m	>50	17	5	17
Tin	ppm	ASTM D5185m	>10	0	0	<1
Antimony	ppm	ASTM D5185m				
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	mqq	ASTM D5185m		0	0	<1
Barium	ppm	ASTM D5185m	90	0	0	0
Molybdenum	ppm	ASTM D5185m		0	0	0
Manganese	ppm	ASTM D5185m		0	0	0
Magnesium	ppm	ASTM D5185m	90	0	17	0
Calcium	ppm	ASTM D5185m	2	0	0	0
Phosphorus	ppm	ASTM D5185m		0	1	1
Zinc	ppm	ASTM D5185m		2	6	0
CONTAMINANTS	3	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	5 9	▲ 38	62
Sodium	ppm	ASTM D5185m		3	4	<1
Potassium	ppm	ASTM D5185m	>20	<1	1	0
Water	%	ASTM D6304	>0.05	0.014	0.010	0.006
ppm Water	ppm	ASTM D6304	>500	143.0	107.2	66.3
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647		2399		1847
Particles >6µm		ASTM D7647	>1300	700		564
Particles >14µm		ASTM D7647	>80	<u> </u>		47
Particles >21µm		ASTM D7647	>20	A 31		9
Particles >38µm		ASTM D7647	>4	1		1
Particles >38µm Particles >71µm		ASTM D7647 ASTM D7647	>4 >3	1 0		1 0
Particles >38µm Particles >71µm Oil Cleanliness		ASTM D7647 ASTM D7647 ISO 4406 (c)	>4 >3 >/17/13	1 0 18/17/14		1 0 18/16/13
Particles >38µm Particles >71µm Oil Cleanliness FLUID DEGRADA	TION	ASTM D7647 ASTM D7647 ISO 4406 (c) method	>4 >3 >/17/13 limit/base	1 0 18/17/14 current	 history1	1 0 18/16/13 history2



OIL ANALYSIS REPORT







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Contact/Location: Service Manager - TREASH