

OIL ANALYSIS REPORT

Machine Id **KAESER 4356721 - 1189**

Component

Compressor

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





DIAGNOSIS

Recommendation

The filter change at the time of sampling has been noted. We advise that you stop the unit and follow the water drain-off procedure for this component. We recommend an early resample in 500 hours to monitor this condition.

Wear

All component wear rates are normal.

Contamination

There is a light concentration of water present 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.

			0ct2023	Mar2024		
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		KCPA013689	KCPA000755	
Sample Date		Client Info		14 Mar 2024	20 Oct 2023	
Machine Age	hrs	Client Info		48423	48385	
Oil Age	hrs	Client Info		0	0	
Oil Changed		Client Info		Not Changd	N/A	
Sample Status				ABNORMAL	ABNORMAL	
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>50	0	<1	
Chromium	ppm	ASTM D5185m	>10	0	<1	
Nickel	ppm	ASTM D5185m	>3	0	0	
Titanium	ppm	ASTM D5185m	>3	0	<1	
Silver	ppm	ASTM D5185m	>2	0	0	
Aluminum	ppm	ASTM D5185m	>10	0	3	
Lead	ppm	ASTM D5185m	>10	0	0	
Copper	ppm	ASTM D5185m	>50	1	3	
Tin	ppm	ASTM D5185m	>10	0	0	
Vanadium	ppm	ASTM D5185m		0	<1	
Cadmium	ppm	ASTM D5185m		0	0	
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		0	0	
Barium	ppm	ASTM D5185m	90	48	0	
Molybdenum	ppm	ASTM D5185m		1	0	
Manganese	ppm	ASTM D5185m		0	0	
Magnesium	ppm	ASTM D5185m	90	13	<1	
Calcium	ppm	ASTM D5185m	2	87	0	
Phosphorus	ppm	ASTM D5185m		66	26	
Zinc	ppm	ASTM D5185m		115	51	
Sulfur	ppm	ASTM D5185m		19638	20194	
CONTAMINANTS	3	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	0	0	
Sodium	ppm	ASTM D5185m		1	0	
Potassium	ppm	ASTM D5185m	>20	0	1	
Water	%	ASTM D6304		△ 0.276	△ 0.663	
ppm Water	ppm	ASTM D6304		<u>▲</u> 2760	▲ 6630	
FLUID CLEANLIN	NESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647		792		
Particles >6µm		ASTM D7647	>1300	431		
Particles >14µm		ASTM D7647	>80	73		
Particles >21µm		ASTM D7647	>20	25		
Particles >38µm		ASTM D7647	>4	4		
Particles >71µm		ASTM D7647	>3	0		
Oil Cleanliness		ISO 4406 (c)	>/17/13	17/16/13		
FLUID DEGRADA	ATION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	0.4	0.19	0.22	



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