

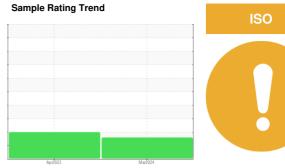
**OIL ANALYSIS REPORT** 

# Machine Id KAESER 3857538 (S/N 1303)

Component

Compressor

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



## Recommendation

The filter change at the time of sampling has been noted. Resample at the next service interval to monitor.

All component wear rates are normal.

## Contamination

There is a moderate amount of silt (particulates < 14 microns in size) 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.

			Apr2023	Mar2024		
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		KCPA014931	KCP52594	
Sample Date		Client Info		18 Mar 2024	25 Apr 2023	
Machine Age	hrs	Client Info		407321	37111	
Oil Age	hrs	Client Info		3023	0	
Oil Changed		Client Info		N/A	Changed	
Sample Status				ATTENTION	ABNORMAL	
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>50	0	0	
Chromium	ppm	ASTM D5185m	>10	0	0	
Nickel	ppm	ASTM D5185m	>3	1	0	
Titanium	ppm	ASTM D5185m	>3	0	0	
Silver	ppm	ASTM D5185m	>2	0	0	
Aluminum	ppm	ASTM D5185m	>10	1	0	
Lead	ppm	ASTM D5185m	>10	0	0	
Copper	ppm	ASTM D5185m	>50	6	11	
Tin	ppm	ASTM D5185m	>10	<1	0	
Vanadium	ppm	ASTM D5185m		0	0	
Cadmium	ppm	ASTM D5185m		0	0	
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	0	0	
Barium	ppm	ASTM D5185m	90	0	0	
Molybdenum	ppm	ASTM D5185m	0	0	0	
Manganese	ppm	ASTM D5185m		<1	0	
Magnesium	ppm	ASTM D5185m	100	20	1	
Calcium	ppm	ASTM D5185m	0	<1	0	
Phosphorus	ppm	ASTM D5185m	0	0	0	
Zinc	ppm	ASTM D5185m	0	6	0	
Sulfur	ppm	ASTM D5185m	23500	21298	17968	
CONTAMINANTS		method	limit/base	current	history1	history2
				0	0	
Silicon Sodium	ppm	ASTM D5185m ASTM D5185m	>25	12	0	
Potassium	ppm	ASTM D5185m	>20	3	<1	
Water	ppm %	ASTM D5165111	>0.05	0.008	0.005	
ppm Water	ppm	ASTM D6304 ASTM D6304	>50.05	87	50.9	
FLUID CLEANLIN			limit/base			
	ESS	method	IIIIIIVDase	current	history1	history2
Particles >4µm		ASTM D7647	1000	4430	7558	
Particles >6µm		ASTM D7647		1472	▲ 1987	
Particles >14µm		ASTM D7647	>80	119	▲ 363	
Particles >21µm		ASTM D7647	>20	32	<u>▲</u> 129	
Particles >38µm		ASTM D7647	>4	1	<u> 16</u>	
Particles >71μm		ASTM D7647		0	1	
Oil Cleanliness		ISO 4406 (c)	>/17/13	<u> </u>	<u>^</u> 20/18/16	
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	1.0	0.45	0.44	



## **OIL ANALYSIS REPORT**

