

OIL ANALYSIS REPORT

7868291 (S/N 1153)

Component

Compressor

KAESER SIGMA (OEM) FG-460 (--- QTS)

Sample Rating Trend



DIAGNOSIS

Recommendation

We advise that you check all areas where dirt can enter the system. Resample at the next service interval to monitor.

All component wear rates are normal.

Contamination

Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress. 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.

			Jan 2023	Jan2024		
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		KC121047	KC100635	
Sample Date		Client Info		23 Jan 2024	03 Jan 2023	
Machine Age	hrs	Client Info		9266	4858	
Oil Age	hrs	Client Info		0	1328	
Oil Changed		Client Info		N/A	Changed	
Sample Status				ABNORMAL	ABNORMAL	
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>50	4	5	
Chromium	ppm	ASTM D5185m	>10	<1	0	
Nickel	ppm	ASTM D5185m	>3	0	0	
Titanium	ppm	ASTM D5185m	>3	0	0	
Silver	ppm	ASTM D5185m	>2	0	<1	
Aluminum	ppm	ASTM D5185m	>10	<u> </u>	△ 35	
Lead	ppm	ASTM D5185m	>10	0	0	
Copper	ppm	ASTM D5185m		2	1	
Tin	ppm	ASTM D5185m	>10	<1	0	
Vanadium	ppm	ASTM D5185m	210	0	0	
Cadmium	ppm	ASTM D5185m		0	0	
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		0	0	
Barium	ppm	ASTM D5185m		0	<1	
Molybdenum	ppm	ASTM D5185m		<1	0	
Manganese	ppm	ASTM D5185m		<1	0	
Magnesium	ppm	ASTM D5185m		0	0	
Calcium	ppm	ASTM D5185m		0	0	
Phosphorus	ppm	ASTM D5185m	500	128	314	
Zinc	ppm	ASTM D5185m		12	73	
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	<u>^</u> 27	4	
Sodium	ppm	ASTM D5185m		2	<1	
Potassium	ppm	ASTM D5185m	>20	0	0	
Water	%	ASTM D6304		0.002	0.007	
ppm Water	ppm	ASTM D6304		18	73.3	
FLUID CLEANLIN	NESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647		705	7799	
Particles >6µm		ASTM D7647	>1300	168	△ 3450	
Particles >14μm		ASTM D7647	>80	20	<u>^</u> 299	
Particles >21µm		ASTM D7647	>20	6	4 5	
Particles >38µm		ASTM D7647	>4	1	3	
Particles >71µm		ASTM D7647	>3	0	0	
Oil Cleanliness		ISO 4406 (c)	>/17/13	17/15/11	△ 20/19/15	
FLUID DEGRADA	ATION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	1.5	0.62	0.81	



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