

OIL ANALYSIS REPORT



ISO

KAESER 2860339 (S/N 1159)

Compressor

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

DIAGNOSIS

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.

Wear

All component wear rates are normal.

Contamination

There is a high amount of particulates present in the oil.

Fluid Condition

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

		May2022 Jul2023 Feb20		Jul2023 Feb202	4	
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		KCPA011793	KCPA005413	KCP40747
Sample Date		Client Info		09 Feb 2024	11 Jul 2023	31 May 2022
Machine Age	hrs	Client Info		46472	43922	37171
Oil Age	hrs	Client Info		0	0	6000
Oil Changed		Client Info		N/A	N/A	Changed
Sample Status				ABNORMAL	ABNORMAL	NORMAL
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>50	0	0	0
Chromium	ppm	ASTM D5185m	>10	<1	0	0
Nickel	ppm	ASTM D5185m	>3	0	0	0
Titanium	ppm	ASTM D5185m	>3	0	<1	0
Silver	ppm	ASTM D5185m	>2	0	0	<1
Aluminum	ppm	ASTM D5185m	>10	<1	<1	2
Lead	ppm	ASTM D5185m	>10	0	0	<1
Copper	ppm	ASTM D5185m	>50	<1	4	6
Tin	ppm	ASTM D5185m	>10	0	0	0
Vanadium	ppm	ASTM D5185m		0	<1	0
Cadmium	ppm	ASTM D5185m		0	0	<1
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	0	0	0
Barium	ppm	ASTM D5185m	90	4	0	4
Molybdenum	ppm	ASTM D5185m	0	0	0	0
Manganese	ppm	ASTM D5185m		0	<1	<1
Magnesium	ppm	ASTM D5185m	100	74	20	22
Calcium	ppm	ASTM D5185m	0	2	<1	0
Phosphorus	ppm	ASTM D5185m	0	4	<1	6
Zinc	ppm	ASTM D5185m	0	10	55	16
Sulfur	ppm	ASTM D5185m	23500	18223	23566	19431
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	9	8	4
Sodium	ppm	ASTM D5185m		13	7	2
Potassium	ppm	ASTM D5185m	>20	<1	0	2
Water	%	ASTM D6304	>0.05	0.012	0.005	0.008
ppm Water	ppm	ASTM D6304	>500	129	52.0	86.2
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647		5428	4711	1324
Particles >6µm		ASTM D7647	>1300	1948	▲ 1824	383
Particles >14µm		ASTM D7647	>80	161	<u>198</u>	22
Particles >21µm		ASTM D7647	>20	42	4 8	4
Particles >38µm		ASTM D7647	>4	1	2	0
Particles >71µm		ASTM D7647	>3	0	0	0
Oil Cleanliness		ISO 4406 (c)	>/17/13	<u>^</u> 20/18/15	1 9/18/15	18/16/12
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	1.0	0.45	0.47	0.44



OIL ANALYSIS REPORT

