

OIL ANALYSIS REPORT



KAESER SX 5 4467852 (S/N 1102)

Compressor

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

DIAGNOSIS

Recommendation

Oil and filter change at the time of sampling has been noted. No corrective action is recommended at this time. 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.

		0ct2015	0ct2017 0ct2018	Jun2020 Jun2021 Jan2023	Mar2024	
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		KCPA013921	KCPA007707	KCP54883
Sample Date		Client Info		13 Mar 2024	12 Oct 2023	27 Jan 2023
Machine Age	hrs	Client Info		77047	73377	73355
Oil Age	hrs	Client Info		3670	0	5038
Oil Changed		Client Info		Changed	N/A	Not Changd
Sample Status				ABNORMAL	NORMAL	ABNORMAL
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>50	0	0	<1
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	0
Aluminum	ppm	ASTM D5185m	>10	0	0	<1
Lead	ppm	ASTM D5185m	>10	0	0	0
Copper	ppm	ASTM D5185m	>50	<1	1	2
Tin	ppm	ASTM D5185m	>10	0	<1	<1
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	0	0	0
Barium	ppm	ASTM D5185m	90	22	0	3
Molybdenum	ppm	ASTM D5185m	0	0	0	0
Manganese	ppm	ASTM D5185m		<1	<1	0
Magnesium	ppm	ASTM D5185m	100	51	30	34
Calcium	ppm	ASTM D5185m	0	<1	1	0
Phosphorus	ppm	ASTM D5185m	0	0	2	4
Zinc	ppm	ASTM D5185m	0	3	2	15
Sulfur	ppm	ASTM D5185m	23500	22543	19405	20570
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	1	<1	<1
Sodium	ppm	ASTM D5185m		13	8	9
Potassium	ppm	ASTM D5185m	>20	0	1	<1
Water	%	ASTM D6304	>0.05	0.017	0.013	0.015
ppm Water	ppm	ASTM D6304	>500	174	134.4	153.2
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647		11302	5416	9710
Particles >6µm		ASTM D7647	>1300	3382	902	<u>^</u> 2393
Particles >14µm		ASTM D7647	>80	<u> </u>	61	▲ 174
Particles >21µm		ASTM D7647	>20	<u></u> 50	17	<u>41</u>
Particles >38µm		ASTM D7647	>4	2	1	<u>4</u>
Particles >71µm		ASTM D7647	>3	0	0	0
Oil Cleanliness		ISO 4406 (c)	>/17/13	<u>^</u> 21/19/15	20/17/13	<u>^</u> 20/18/15
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	1.0	0.39	0.33	0.37



OIL ANALYSIS REPORT

