

OIL ANALYSIS REPORT

Sample Rating Trend



Machine Id KAESER 82112472 (S/N 1737)

Compressor

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

Recommendation

Resample at the next service interval to monitor.

All component wear rates are normal.

Contamination

The amount and size of particulates present in the system are acceptable. There is no indication of any contamination in the oil.

Fluid Condition

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

Jun2022 Aug2023 Mm2024						
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		KC125787	KC107595	KC97873
Sample Date		Client Info		15 Mar 2024	29 Aug 2023	23 Jun 2022
Machine Age	hrs	Client Info		12612	9790	3202
Oil Age	hrs	Client Info		0	6590	3202
Oil Changed		Client Info		N/A	Changed	Changed
Sample Status				NORMAL	ATTENTION	NORMAL
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	0	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	12	19	14
Tin	ppm	ASTM D5185m	>10	0	0	<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	1
Barium	ppm	ASTM D5185m	90	0	2	0
Molybdenum	ppm	ASTM D5185m		0	0	0
Manganese	ppm	ASTM D5185m		0	0	<1
Magnesium	ppm	ASTM D5185m	90	0	<1	22
Calcium	ppm	ASTM D5185m	2	0	0	<1
Phosphorus	ppm	ASTM D5185m		0	4	10
Zinc	ppm	ASTM D5185m		10	0	33
CONTAMINANTS	;	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	3	7	<1
Sodium	ppm	ASTM D5185m		1	0	7
Potassium	ppm	ASTM D5185m	>20	0	0	3
Water	%	ASTM D6304	>0.05	0.004	0.005	0.015
ppm Water	ppm	ASTM D6304	>500	42	57.9	153.5
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647		2130	5925	1635
Particles >6µm		ASTM D7647	>1300	837	2158	415
Particles >14μm		ASTM D7647	>80	56	160	27
Particles >21µm		ASTM D7647	>20	10	4 6	5
Particles >38μm		ASTM D7647	>4	0	1	1
Particles >71μm		ASTM D7647	>3	0	0	0
Oil Cleanliness		ISO 4406 (c)	>/17/13	18/17/13	20/18/14	18/16/12
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	0.4	0.34	0.29	0.34



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