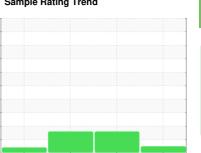


OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Machine Id KAESER AS 20 7993458 (S/N 1334)

Compressor

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

Recommendation

Resample at the next service interval to monitor.

All component wear rates are normal.

Contamination

There is no indication of any contamination in the oil. 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.

		Mar202	2 Sep2022	Mar2023 Fe	52024	
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		KCPA014744	KCPA001498	KCP49341
Sample Date		Client Info		22 Feb 2024	23 Mar 2023	20 Sep 2022
Machine Age	hrs	Client Info		4570	3046	2400
Oil Age	hrs	Client Info		3500	0	1400
Oil Changed		Client Info		Changed	N/A	Changed
Sample Status				NORMAL	ABNORMAL	ABNORMAL
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>50	0	0	<1
Chromium	ppm	ASTM D5185m	>10	<1	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	2	<1	0
Lead	ppm	ASTM D5185m	>10	0	0	<1
Copper	ppm	ASTM D5185m	>50	8	8	12
Tin	ppm	ASTM D5185m	>10	0	0	<1
Vanadium	ppm	ASTM D5185m		0	0	<1
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	8	10	0
Molybdenum	ppm	ASTM D5185m	0	0	0	0
Manganese	ppm	ASTM D5185m		0	0	0
Magnesium	ppm	ASTM D5185m	100	1	30	6
Calcium	ppm	ASTM D5185m	0	0	<1	0
Phosphorus	ppm	ASTM D5185m	0	23	1	11
Zinc	ppm	ASTM D5185m	0	<1	19	19
Sulfur	ppm	ASTM D5185m	23500	17811	20888	13185
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	0	<1	<1
Sodium	ppm	ASTM D5185m		0	14	3
Potassium	ppm	ASTM D5185m	>20	<1	<1	8
Water	%	ASTM D6304	>0.05	0.004	0.016	0.034
ppm Water	ppm	ASTM D6304	>500	46	163.0	340.7
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647		1739	9376	43416
Particles >6µm		ASTM D7647	>1300	657	<u>▲</u> 3814	<u>▲</u> 12945
Particles >14μm		ASTM D7647	>80	39	<u>^</u> 225	<u>^</u> 204
Particles >21μm		ASTM D7647		7	△ 30	<u>^</u> 22
Particles >38μm		ASTM D7647	>4	0	0	0
Particles >71μm		ASTM D7647		0	0	0
Oil Cleanliness		ISO 4406 (c)	>/17/13	18/17/12	<u>^</u> 20/19/15	<u>\$\text{\Delta}\$ 23/21/15</u>
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Acid Number (AN)	ma KOH/a	4 STM D8045	1.0	0 42	0.40	0.42

Acid Number (AN)

mg KOH/g ASTM D8045 1.0

0.40

0.42

0.42



OIL ANALYSIS REPORT

