

OIL ANALYSIS REPORT

Sample Rating Trend



KAESER AIRCENTER SK 20 4934031 (S/N 1396)

Component

Compressor

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

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.

		Aug2014	Aug2016 Jul2017	Aug2018 Aug2019 Ji	un2021	
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		KC107810	KC89955	KC72914
Sample Date		Client Info		12 Jun 2023	09 Jun 2021	26 Aug 2020
Machine Age	hrs	Client Info		63368	47751	41732
Oil Age	hrs	Client Info		4142	7000	38299
Oil Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	ABNORMAL	NORMAL
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>50	0	<1	<1
Chromium	ppm	ASTM D5185m	>10	0	<1	<1
Nickel	ppm	ASTM D5185m	>3	<1	0	0
Titanium	ppm	ASTM D5185m	>3	0	0	0
Silver	ppm	ASTM D5185m	>2	0	<1	<1
Aluminum	ppm	ASTM D5185m	>10	0	0	0
Lead	ppm	ASTM D5185m	>10	0	<1	0
Copper	ppm	ASTM D5185m	>50	6	2	22
Tin	ppm	ASTM D5185m	>10	0	0	0
Antimony	ppm	ASTM D5185m			0	0
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	<1	1
Barium	ppm	ASTM D5185m	90	0	24	0
Molybdenum	ppm	ASTM D5185m		0	0	0
Manganese	ppm	ASTM D5185m		0	<1	0
Magnesium	ppm	ASTM D5185m	90	<1	32	0
Calcium	ppm	ASTM D5185m	2	0	<1	0
Phosphorus	ppm	ASTM D5185m		0	2	0
Zinc	ppm	ASTM D5185m		0	0	0
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	<1	<1	<1
Sodium	ppm	ASTM D5185m		0	3	0
Potassium	ppm	ASTM D5185m	>20	<1	2	0
Water	%	ASTM D6304	>0.05	0.007	0.007	0.005
ppm Water	ppm	ASTM D6304	>500	74.9	76.7	58.8
FLUID CLEANLIN	ESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647		491	8730	941
Particles >6µm		ASTM D7647	>1300	186	<u>▲</u> 2622	321
Particles >14μm		ASTM D7647	>80	31	<u>^</u> 265	62
Particles >21µm		ASTM D7647	>20	10	4 94	24
Particles >38μm		ASTM D7647	>4	1	6	2
Particles >71µm		ASTM D7647	>3	0	0	0
Oil Cleanliness		ISO 4406 (c)	>/17/13	16/15/12	△ 19/15	16/13
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
A = ! = N (A N)		AOTM D0045	0.4	0.410	0.070	0.407

Acid Number (AN)

mg KOH/g ASTM D8045 0.4

0.379

0.419

0.407



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* - Denotes test methods that are outside of the ISO 17025 scope of accreditation.

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

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