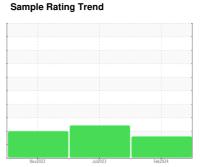


# **OIL ANALYSIS REPORT**

# Machine Id KAESER SK 19 2239814 (S/N 1034)

Compressor

KAESER SIGMA (OEM) S-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 acceptable for the time in service.

		Nov2022 Ju2023 Feb2024				
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		KC06122323	KC05897462	KC05700872
Sample Date		Client Info		12 Feb 2024	03 Jul 2023	12 Nov 2022
Machine Age	hrs	Client Info		50286	49402	47383
Oil Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	Changed
Sample Status				ABNORMAL	ABNORMAL	ABNORMAL
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>50	0	4	2
Chromium	ppm	ASTM D5185m	>10	0	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	0
Aluminum	ppm	ASTM D5185m	>10	<1	1	<1
Lead	ppm	ASTM D5185m	>10	0	0	0
Copper	ppm	ASTM D5185m	>50	4	6	9
Tin	ppm	ASTM D5185m	>10	<1	0	0
Vanadium	ppm	ASTM D5185m		0	<1	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		0	0	0
Barium	ppm	ASTM D5185m	90	0	0	3
Molybdenum	ppm	ASTM D5185m		0	0	0
Manganese	ppm	ASTM D5185m		2	1	1
Magnesium	ppm	ASTM D5185m	90	24	25	18
Calcium	ppm	ASTM D5185m	2	0	1	0
Phosphorus	ppm	ASTM D5185m		0	15	61
Zinc	ppm	ASTM D5185m		25	22	40
CONTAMINANTS	3	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	0	<1	0
Sodium	ppm	ASTM D5185m		13	8	4
Potassium	ppm	ASTM D5185m	>20	0	4	0
Water	%	ASTM D6304	>0.05	0.014	0.045	0.017
ppm Water	ppm	ASTM D6304	>500	140	451.8	173.5
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4μm		ASTM D7647		38944	201369	55071
Particles >6µm		ASTM D7647	>1300	<u> </u>	<u>▲</u> 107118	<u>▲</u> 12385
Particles >14μm		ASTM D7647	>80	<u></u> 514	<u> </u>	<b>△</b> 736
Particles >21µm		ASTM D7647	>20	<u> </u>	<u>▲</u> 4652	<u>^</u> 218
Particles >38µm		ASTM D7647	>4	4	<u> </u>	<b>7</b>
Particles >71μm		ASTM D7647	>3	1	<u>^</u> 7	0
Oil Cleanliness		ISO 4406 (c)	>/17/13	<u>22/20/16</u>	<u>△</u> 25/24/21	<u>△</u> 23/21/17
FLUID DEGRADA	ATION	method	limit/base	current	history1	history2
A -! -! Ni Is (ANI)	1/011/	4 OT1 4 D00 45	0 4			

Acid Number (AN)

mg KOH/g ASTM D8045 0.4

0.37

0.42

0.35



## **OIL ANALYSIS REPORT**

