

# **OIL ANALYSIS REPORT**

### Machine Id KAESER SM15 5887748 (S/N 1511) Component

Compressor

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

# DIAGNOSIS

## Recommendation

Resample at the next service interval to monitor. We were unable to perform a particle count due to insufficient sample.

# Wear

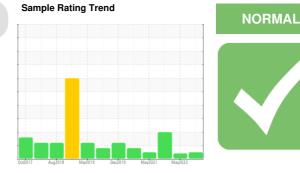
All component wear rates are normal.

### Contamination

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.



SAMPLE INFORM	<b>MATION</b>	method	limit/base	current	history1	history2
Sample Number		Client Info		KC108899	KC107824	KC53629
Sample Date		Client Info		12 Sep 2023	23 May 2023	19 May 2022
Machine Age	hrs	Client Info		55481	52940	44096
Oil Age	hrs	Client Info		2541	8844	0
Oil Changed		Client Info		Not Changd	Changed	Changed
Sample Status				NORMAL	ABNORMAL	ABNORMAL
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>50	<1	0	<1
Chromium	ppm	ASTM D5185m	>10	0	0	0
Nickel	ppm	ASTM D5185m	>3	<1	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	<1	0
Copper	ppm	ASTM D5185m	>50	11	27	11
Tin	ppm	ASTM D5185m	>10	0	<1	0
Antimony	ppm	ASTM D5185m				
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
Barium	ppm	ASTM D5185m	90	0	0	0
Molybdenum	ppm	ASTM D5185m		0	0	0

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Barium	ppm	ASTM D5185m	90	0	0	0
Molybdenum	ppm	ASTM D5185m		0	0	0
Manganese	ppm	ASTM D5185m		0	0	0
Magnesium	ppm	ASTM D5185m	90	30	2	<1
Calcium	ppm	ASTM D5185m	2	0	<1	0
Phosphorus	ppm	ASTM D5185m		0	1	4
Zinc	ppm	ASTM D5185m		8	2	0

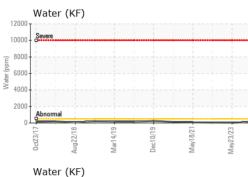
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	<1	0	1
Sodium	ppm	ASTM D5185m		4	<1	0
Potassium	ppm	ASTM D5185m	>20	4	<1	<1
Water	%	ASTM D6304	>0.05	0.014	0.003	0.004
ppm Water	ppm	ASTM D6304	>500	144.5	25.3	48.3

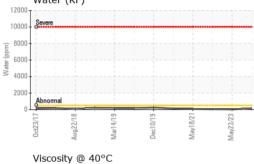
FLUID CLEANLINESS	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647				13466
Particles >6µm	ASTM D7647	>1300			<b>6</b> 373
Particles >14µm	ASTM D7647	>80			<b>1</b> 051
Particles >21µm	ASTM D7647	>20			<u> </u>
Particles >38µm	ASTM D7647	>4			<b>1</b> 4
Particles >71µm	ASTM D7647	>3			1
Oil Cleanliness	ISO 4406 (c)	>/17/13			<b>1</b> /20/17
FLUID DEGRADATION	method	limit/base	current	history1	history2
Acid Number (AN) mg KOH/	g ASTM D8045	0.4	0.365	0.31	0.35

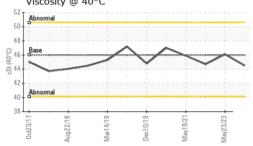
mg KOH/g ASTM D8045 0.4



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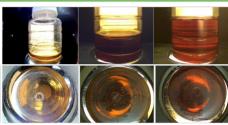




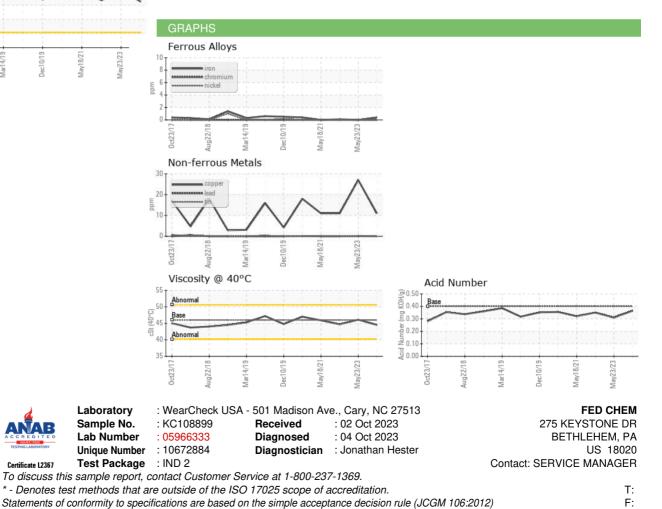


VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	🔺 MODER	LIGHT
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.05	NEG	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG
FLUID PROPERT	TIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	46	44.5	46.1	44.7
SAMPLE IMAGES		method	limit/base	current	history1	history2
			_			

Color



Bottom



Certificate L2367

Contact/Location: SERVICE MANAGER ? - FEDBET