

## **PROBLEM SUMMARY**

#### Machine Id 6808194 (S/N 1585) Component

Compressor

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

## COMPONENT CONDITION SUMMARY







#### RECOMMENDATION

No corrective action is recommended at this time. Resample at the next service interval to monitor.

### PROBLEMATIC TEST RESULTS

		002.0				
Sample Status				ABNORMAL	ATTENTION	ATTENTION
Particles >14µm		ASTM D7647	>80	<u> </u>	🔺 111	<b>1</b> 33
Particles >21µm		ASTM D7647	>20	<u> </u>	<b>4</b> 31	<b>4</b> 34
Oil Cleanliness		ISO 4406 (c)	>/17/13	<u> </u>	<b>1</b> 9/17/14	<b>1</b> 8/14
Visc @ 40°C	cSt	ASTM D445	45	<b>6.78</b>	50.9	44.2

Customer Id: GEISUW Sample No.: KCPA002677 Lab Number: 05930414 Test Package: IND 2



To manage this report scan the QR code

To discuss the diagnosis or test data: Jonathan Hester +1 919-379-4092 x4092 jhester@wearcheckusa.com

*To change component or sample information:* Customer Service +1 1-800-237-1369 <u>customerservice@wearcheck.com</u>

#### **RECOMMENDED ACTIONS**

There are no recommended actions for this sample.

#### HISTORICAL DIAGNOSIS

#### 05 May 2022 Diag: Don Baldridge



Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.All component wear rates are normal. There is a moderate amount of particulates present in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.



#### 28 Dec 2020 Diag: Jonathan Hester



Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.All component wear rates are normal. There is a moderate amount of particulates present in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.





## **OIL ANALYSIS REPORT**

SAMPLE INFORMATION method



limit/base

current



history1

history2

Machine Id 6808194 (S/N 1585) Component

Compressor Fluid

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

### DIAGNOSIS

#### A Recommendation

No corrective action is recommended at this time. Resample at the next service interval to monitor.

#### Wear

All component wear rates are normal.

#### Contamination

There is a moderate amount of particulates present in the oil.

#### Fluid Condition

The oil viscosity is higher than normal. The AN level is acceptable for this fluid.

Sample Number		Client Info		KCPA002677	KCP48090	KCP28850
Sample Date		Client Info		09 Aug 2023	05 May 2022	28 Dec 2020
Machine Age	hrs	Client Info		18051	11398	3525
Oil Age	hrs	Client Info		13885	2500	3525
Oil Changed		Client Info		N/A	Changed	Changed
Sample Status				ABNORMAL	ATTENTION	ATTENTION
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	<1	0
Aluminum	ppm	ASTM D5185m	>10	0	0	0
Lead	ppm	ASTM D5185m	>10	0	0	0
Copper	ppm	ASTM D5185m	>50	11	10	7
Tin	ppm	ASTM D5185m	>10	0	0	0
Antimony	ppm	ASTM D5185m				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	0	1	0
Barium	ppm	ASTM D5185m	90	0	0	0
Molybdenum	ppm	ASTM D5185m	0	0	0	0
Manganese	ppm	ASTM D5185m		0	0	0
Magnesium	ppm	ASTM D5185m	100	0	0	2
Calcium	ppm	ASTM D5185m	0	0	0	0
Phosphorus	ppm	ASTM D5185m	0	0	2	8
Zinc	ppm	ASTM D5185m	0	0	0	6
Sulfur	ppm	ASTM D5185m	23500	23196	12936	14732
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	2	<1	<1
Sodium	ppm	ASTM D5185m		1	<1	0
Potassium	ppm	ASTM D5185m	>20	0	0	<1
Water	%	ASTM D6304	>0.05	0.010	0.003	0.010
ppm Water	ppm	ASTM D6304	>500	109.6	35.7	102.2
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647		3472	3759	4657
Particles >6µm		ASTM D7647	>1300	1114	1109	<b>1</b> 326
Particles >14µm		ASTM D7647	>80	<mark>/</mark> 99	<b>A</b> 111	<b>1</b> 33
Particles >21µm		ASTM D7647	>20	<u> </u>	<b>A</b> 31	▲ 34
Particles >38µm		ASTM D7647	>4	1	1	1
Particles >71µm		ASTM D7647	>3	0	0	0
Oil Cleanliness		ISO 4406 (c)	>/17/13	<b>19/17/14</b>	▲ 19/17/14	▲ 18/14
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	1.0	0.53	0.50	0.335

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Contact/Location: 5

Contact/Location: Service Manager - GEISUW



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Water

# **OIL ANALYSIS REPORT**



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	NONE	NONE
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 PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	45	▲ 56.78	50.9	44.2
SAMPLE IMAGES	;	method	limit/base	current	history1	history2
Color						
Bottom						



Contact/Location: Service Manager - GEISUW