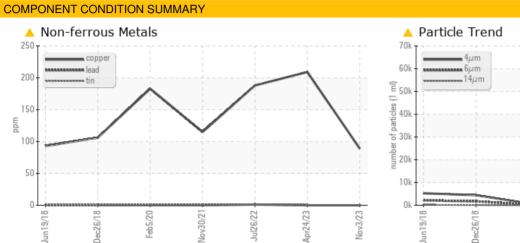


-COMPRESSORS Built for a lifetime."

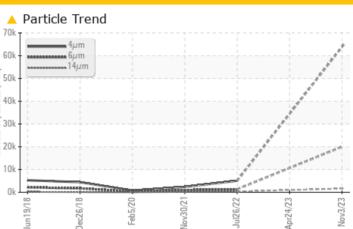
# KAESER AS 20 6015902 (S/N 1237) Component

Compressor Fluic

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



# Sample Rating Trend **WEAR**



#### 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.

## **PROBLEMATIC TEST RESULTS**

Sample Status				ABNORMAL	ABNORMAL	ABNORMAL	
Copper	ppm	ASTM D5185m	>50	<u> </u>	<u> </u>	<u> </u>	
Particles >6µm		ASTM D7647	>1300	🔺 19969		🔺 1325	
Particles >14µm		ASTM D7647	>80	<u> </u>		<b>A</b> 341	
Particles >21µm		ASTM D7647	>20	<b>428</b>		<b>9</b> 8	
Particles >38µm		ASTM D7647	>4	<u> </u>		<b>5</b>	
Oil Cleanliness		ISO 4406 (c)	>17/13	<b> 21/18</b>		<b>1</b> 8/16	
Debris	scalar	*Visual	NONE		A MODER	NONE	

**Customer Id: HARWAY** Sample No.: KCPA009065 Lab Number: 06013334 Test Package: IND 2



To manage this report scan the QR code

To discuss the diagnosis or test data: Don Baldridge +1 don.b505@comcast.net

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

There are no recommended actions for this sample.

#### **HISTORICAL DIAGNOSIS**

#### 24 Apr 2023 Diag: Don Baldridge

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. We were unable to perform a particle count due to a high concentration of particles present in this sample. The copper level is abnormal. All other component wear rates are normal. Moderate concentration of visible dirt/debris present in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

#### 26 Jul 2022 Diag: Doug Bogart



Oil and filter change at the time of sampling has been noted. No corrective action is recommended at this time. Resample at the next service interval to monitor. The copper level is abnormal. All other component wear rates are normal. There is a high 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.

## 30 Nov 2021 Diag: Angela Borella



Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.The copper level is abnormal. All other component wear rates are normal. There is a high 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.







view report



# **OIL ANALYSIS REPORT**

#### Machine Id KAESER AS 20 6015902 (S/N 1237) Component

Compressor Fluic

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

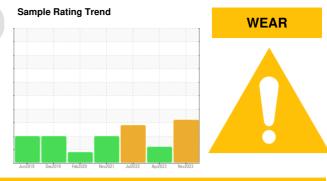
The copper level has decreased, but is still abnormal. All other component wear rates are normal.

#### Contamination

There is a high amount of particulates present in the oil. Moderate concentration of visible dirt/debris present in the oil.

#### Fluid Condition

The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.



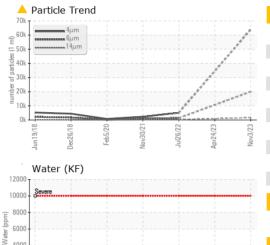
SAMPLE INFORM	<b>IATION</b>	method	limit/base	current	history1	history2
Sample Number		Client Info		KCPA009065	KCPA001444	KCP49485
Sample Date		Client Info		03 Nov 2023	24 Apr 2023	26 Jul 2022
Machine Age	hrs	Client Info		57206	36420	30382
Oil Age	hrs	Client Info		0	0	2274
Oil Changed		Client Info		N/A	N/A	Changed
Sample Status				ABNORMAL	ABNORMAL	ABNORMAL
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>50	0	2	5
Chromium	ppm	ASTM D5185m	>10	0	0	0
Nickel	ppm	ASTM D5185m	>3	1	0	<1
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m	>2	0	0	<1
Aluminum	ppm	ASTM D5185m	>10	7	17	<1
Lead	ppm	ASTM D5185m	>10	0	0	1
Copper	ppm	ASTM D5185m	>50	▲ 89	<u> </u>	<u>▲</u> 188
Tin	ppm	ASTM D5185m	>10	<1	0	<1
Antimony	ppm	ASTM D5185m				
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
	ppiii				-	-
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		0	0	<1
Barium	ppm	ASTM D5185m	90	0	<1	0
Molybdenum	ppm	ASTM D5185m		0	0	0
Manganese	ppm	ASTM D5185m		<1	<1	0
Magnesium	ppm	ASTM D5185m	90	3	2	0
Calcium	ppm	ASTM D5185m	2	1	0	0
Phosphorus	ppm	ASTM D5185m		1	2	0
Zinc	ppm	ASTM D5185m		117	12	170
Sulfur	ppm	ASTM D5185m		16984	14418	17324
CONTAMINANTS	;	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	0	0	<1
Sodium	ppm	ASTM D5185m		<1	<1	<1
Potassium	ppm	ASTM D5185m	>20	0	0	0
Water	%	ASTM D6304	>0.05	0.008	0.016	0.007
ppm Water	ppm	ASTM D6304	>500	89.9	168.4	74.6
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647		63835		5070
Particles >6µm		ASTM D7647	>1300	<u> </u>		<b>1</b> 325
Particles >14µm		ASTM D7647	>80	<u> </u>		<b>A</b> 341
Particles >21µm		ASTM D7647	>20	<u> </u>		<b>9</b> 8
Particles >38μm		ASTM D7647	>4	<b>1</b> 6		<b>5</b>
Particles >71μm		ASTM D7647	>3	0		1
Oil Cleanliness		ISO 4406 (c)	>17/13	<b>A</b> 21/18		▲ 18/16
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	0.4	0.32	0.32	0.41
	3		_			

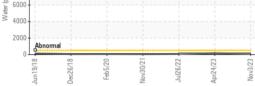
Acid Number (AN) Report Id: HARWAY [WUSCAR] 06013334 (Generated: 11/22/2023 20:23:36) Rev: 1

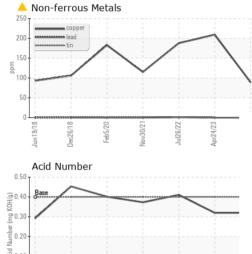
Contact/Location: SERVICE MANAGER ? - HARWAY

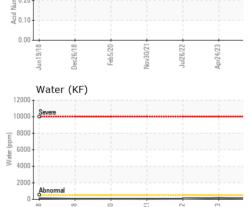


# **OIL ANALYSIS REPORT**









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VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	MODER	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	A MODER	🔺 MODER	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	46	44.5	44.2	44.1
SAMPLE IMAGES		method	limit/base	current	history1	history2

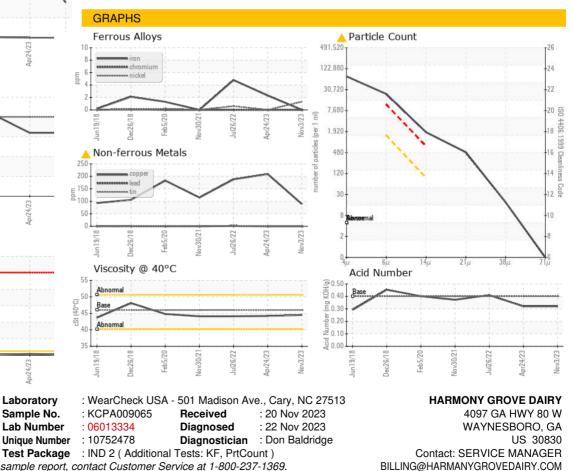
Color



Bottom

To discuss this sample report, contact Customer Service at 1-800-237-1369. \* - 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)



Report Id: HARWAY [WUSCAR] 06013334 (Generated: 11/22/2023 20:23:36) Rev: 1

Certificate L2367

Contact/Location: SERVICE MANAGER ? - HARWAY

T:

F: