

# **PROBLEM SUMMARY**

Sample Rating Trend

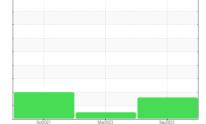


KAESER 4884211

Component

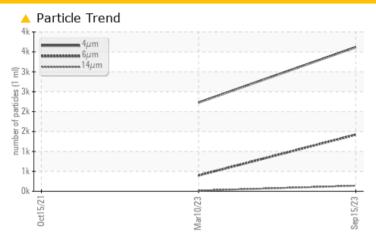
Compressor

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





## **COMPONENT CONDITION SUMMARY**



## RECOMMENDATION

The filter change at the time of sampling has been noted. Resample at the next service interval to monitor.

PROBLEMATIC TEST RESULTS									
Sample Status			ATTENTION	NORMAL	ABNORMAL				
Particles >6µm	ASTM D7647	>1300	<u> </u>	398					
Particles >14μm	ASTM D7647	>80	<b>139</b>	17					
Particles >21µm	ASTM D7647	>20	<b>△</b> 32	2					
Oil Cleanliness	ISO 4406 (c)	>/17/13	<b>19/18/14</b>	18/16/11					

Customer Id: SOUUNICAL Sample No.: KCPA003641 Lab Number: 05960646 Test Package: IND 2



To manage this report scan the QR code

To discuss the diagnosis or test data: Angela Borella +1 800-237-1369 angela.borella@wearcheckusa.com

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

## **RECOMMENDED ACTIONS**

There are no recommended actions for this sample.

## HISTORICAL DIAGNOSIS

## 10 Mar 2023 Diag: Jonathan Hester

NORMAL



Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the oil. The amount and size of particulates present in the system are acceptable. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.



## 15 Oct 2021 Diag: Jonathan Hester

WATER

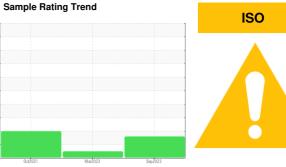


Oil and filter change at the time of sampling has been noted. We recommend an early resample in 500 hours to monitor this condition. We were unable to perform a particle count due to a high concentration of particles present in this sample. All component wear rates are normal. There is a light concentration of water present in the oil. 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.





## **OIL ANALYSIS REPORT**



# **KAESER 4884211**

Component

Compressor

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

## **DIAGNOSIS**

#### Recommendation

The filter change at the time of sampling has been noted. Resample at the next service interval to monitor.

All component wear rates are normal.

## Contamination

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

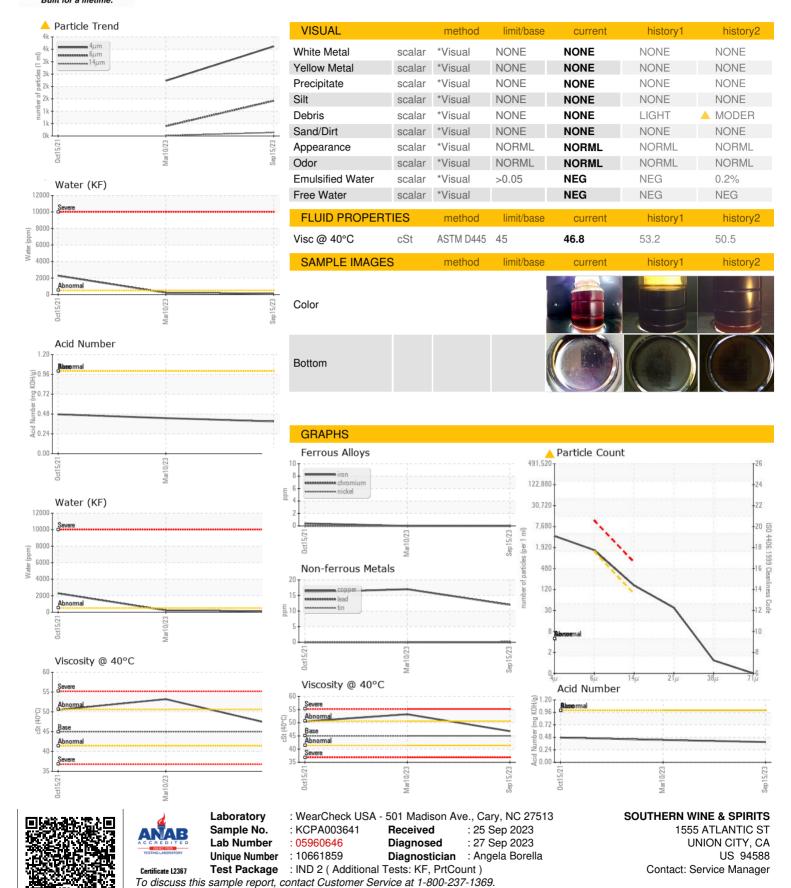
#### **Fluid Condition**

The AN level is acceptable for this fluid. The condition of the oil is acceptable for the time in service.

		00	2021	Mar2023 Sep203	Sep2023		
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2	
Sample Number		Client Info		KCPA003641	KCP45867	KCP36244	
Sample Date		Client Info		15 Sep 2023	10 Mar 2023	15 Oct 2021	
Machine Age	hrs	Client Info		48078	43506	36689	
Oil Age	hrs	Client Info		0	4100	0	
Oil Changed		Client Info		N/A	Changed	Changed	
Sample Status				ATTENTION	NORMAL	ABNORMAL	
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	0	<1	
Aluminum	ppm	ASTM D5185m	>10	0	0	<1	
Lead	ppm	ASTM D5185m	>10	0	0	0	
Copper	ppm	ASTM D5185m	>50	12	17	16	
Tin	ppm	ASTM D5185m	>10	<1	0	0	
Antimony	ppm	ASTM D5185m	7.0			<1	
Vanadium	ppm	ASTM D5185m		0	0	0	
Cadmium	ppm	ASTM D5185m		0	0	0	
	ррпп				-		
ADDITIVES		method	limit/base	current	history1	history2	
Boron	ppm	ASTM D5185m	0	0	0	<1	
Barium	ppm	ASTM D5185m	90	11	0	0	
Molybdenum	ppm	ASTM D5185m	0	<1	0	0	
Manganese	ppm	ASTM D5185m		<1	0	<1	
Magnesium	ppm	ASTM D5185m	100	17	9	12	
Calcium	ppm	ASTM D5185m	0	<1	0	<1	
Phosphorus	ppm	ASTM D5185m	0	3	2	5	
Zinc	ppm	ASTM D5185m	0	50	65	53	
Sulfur	ppm	ASTM D5185m	23500	22660	20946	18736	
CONTAMINANTS	3	method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185m	>25	<1	0	<1	
Sodium	ppm	ASTM D5185m		17	8	23	
Potassium	ppm	ASTM D5185m	>20	4	<1	<1	
Water	%	ASTM D6304	>0.05	0.010	0.021	<b>△</b> 0.229	
ppm Water	ppm	ASTM D6304	>500	105.0	215.4	▲ 2290	
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2	
Particles >4µm		ASTM D7647		3618	2229		
Particles >6µm		ASTM D7647	>1300	<u> </u>	398		
Particles >14µm		ASTM D7647	>80	<b>139</b>	17		
Particles >21µm		ASTM D7647	>20	<u> </u>	2		
Particles >38µm		ASTM D7647	>4	1	0		
Particles >71µm		ASTM D7647	>3	0	0		
Oil Cleanliness		ISO 4406 (c)	>/17/13	<b>19/18/14</b>	18/16/11		
FLUID DEGRADA	ATION	method	limit/base	current	history1	history2	
Acid Number (AN)	mg KOH/g	ASTM D8045	1.0	0.39	0.43	0.476	
F:00:40\ David	0 - 0		•				



## **OIL ANALYSIS REPORT**



\* - 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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