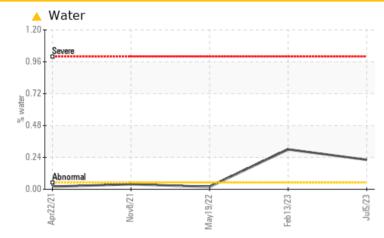




#### Machine Id KAESER 6086885 Component

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

## COMPONENT CONDITION SUMMARY



#### RECOMMENDATION

Oil and filter change at the time of sampling has been noted. We were unable to perform a particle count on this sample. We recommend an early resample in 500 hours to monitor this condition.

PROBLEMATIC TEST RESULTS								
Sample Status				ABNORMAL	ABNORMAL	ATTENTION		
Water	%	ASTM D6304	>0.05	<u> </u>	▲ 0.300	0.018		
ppm Water	ppm	ASTM D6304	>500	<u> </u>	<b>A</b> 3000	186.8		
Emulsified Water	scalar	*Visual	>0.05	<u> </u>	▲ 0.2%	NEG		

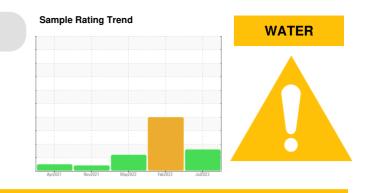
Customer Id: AMAVAC Sample No.: KCPA003336 Lab Number: 05899967 Test Package: IND 2



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 <u>customerservice@wearcheck.com</u>



RECOMMENDED ACTIONS							
Action	Status	Date	Done By	Description			
Change Fluid			?	Oil and filter change at the time of sampling has been noted.			
Change Filter			?	Oil and filter change at the time of sampling has been noted.			
Alert			?	We were unable to perform a particle count due to a high concentration of particles present in this sample.			

#### **HISTORICAL DIAGNOSIS**



#### 13 Feb 2023 Diag: Angela Borella

The filter change at the time of sampling has been noted. We advise that you stop the unit and follow the water drain-off procedure for this component. We recommend an early resample in 500 hours to monitor this condition.All component wear rates are normal. There is a light concentration of water present in the oil. Free water present. 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 acceptable for the time in service.

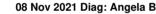


view report



### 19 May 2022 Diag: Doug Bogart

No corrective action is recommended at this time. 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.





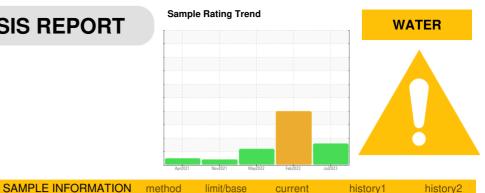
## 08 Nov 2021 Diag: Angela Borella

No corrective action is recommended at this time. Resample at the next service interval to monitor.All component wear rates are normal. There is a moderate amount of silt (particulates < 14 microns in size) 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**



#### Machine Id **KAESER 6086885** Component

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

#### DIAGNOSIS

#### A Recommendation

Oil and filter change at the time of sampling has been noted. We were unable to perform a particle count on this sample. We recommend an early resample in 500 hours to monitor this condition.

#### Wear

All component wear rates are normal.

#### Contamination

There is a light concentration of water present in the oil.

#### Fluid Condition

The AN level is acceptable for this fluid.

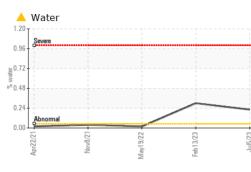
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		KCPA003336	KCP49174	KCP51223
Sample Date		Client Info		05 Jul 2023	13 Feb 2023	19 May 2022
Machine Age	hrs	Client Info		27186	25601	23134
Oil Age	hrs	Client Info		0	0	3000
Oil Changed		Client Info		Changed	Not Changd	Changed
Sample Status				ABNORMAL	ABNORMAL	ATTENTION
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>50	<1	5	0
Chromium	ppm	ASTM D5185m	>10	0	0	0
Nickel	ppm	ASTM D5185m	>3	0	<1	0
Titanium	ppm	ASTM D5185m	>3	0	0	0
Silver	ppm	ASTM D5185m	>2	0	<1	<1
Aluminum	ppm	ASTM D5185m	>10	<1	<1	1
Lead	ppm	ASTM D5185m	>10	0	<1	<1
Copper	ppm	ASTM D5185m	>50	<1	2	<1
Tin	ppm	ASTM D5185m	>10	0	0	<1
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	0
Barium	ppm	ASTM D5185m	90	2	2	2
Molybdenum	ppm	ASTM D5185m	0	0	0	0
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m	100	44	29	63
Calcium	ppm	ASTM D5185m	0	0	<1	0
Phosphorus	ppm	ASTM D5185m	0	4	44	7
Zinc	ppm	ASTM D5185m	0	9	60	7
Sulfur	ppm	ASTM D5185m	23500	25188	16739	19053
CONTAMINANTS	6	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	1	0	1
Sodium	ppm	ASTM D5185m		7	3	12
Potassium	ppm	ASTM D5185m	>20	1	1	2
Water	%	ASTM D6304	>0.05	<u> </u>	<b>0.300</b>	0.018
ppm Water	ppm	ASTM D6304	>500	<b>A</b> 2220	<b>A</b> 3000	186.8
FLUID CLEANLIN	NESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647			626	5635
Particles >6µm		ASTM D7647	>1300		341	<b>1</b> 479
Particles >14µm		ASTM D7647	>80		58	🔺 116
Particles >21µm		ASTM D7647	>20		20	19
Particles >38µm		ASTM D7647	>4		3	1
Particles >71µm		ASTM D7647	>3		0	0
Oil Cleanliness		ISO 4406 (c)	>/17/13		16/16/13	▲ 20/18/14
FLUID DEGRADA	ATION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	1.0	0.28	0.33	0.29
- [ 4.07 Dev. 1				O a sta at/l a s at/		

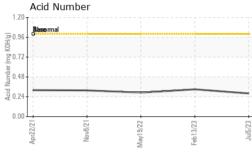
Report Id: AMAVAC [WUSCAR] 05899967 (Generated: 07/18/2023 18:54:27) Rev: 1

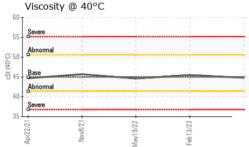
Contact/Location: Service Manager - AMAVAC



# **OIL ANALYSIS REPORT**



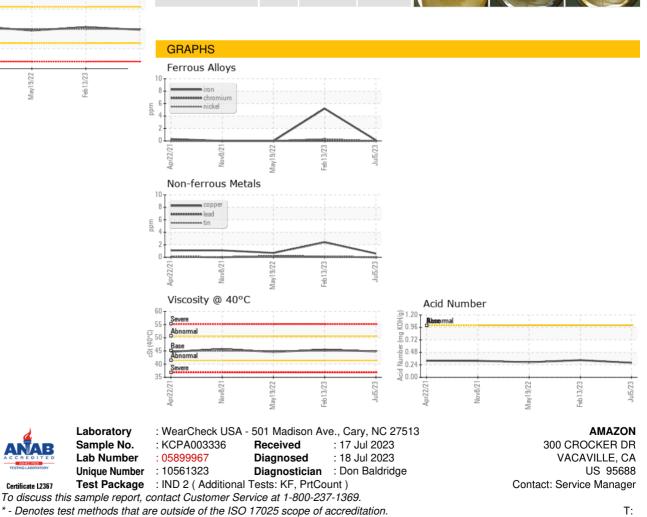




VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	HEAVY	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	VLITE	LIGHT
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	🔺 HAZY	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.05	<b>A</b> 0.2%	▲ 0.2%	NEG
Free Water	scalar	*Visual		NEG	<b>1</b> .0	NEG
FLUID PROPERT	IES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	45	44.8	45.5	44.6
SAMPLE IMAGES	S	method	limit/base	current	history1	history2
Color						

Bottom

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)



Report Id: AMAVAC [WUSCAR] 05899967 (Generated: 07/18/2023 18:54:27) Rev: 1

Certificate L2367

E

Contact/Location: Service Manager - AMAVAC

F: