

### **OIL ANALYSIS REPORT**



ISO

# 5283617 (S/N 1021)

Component Compressor Fluid

#### KAESER SIGMA (OEM) M-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

All component wear rates are normal.

#### Contamination

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

#### Fluid Condition

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

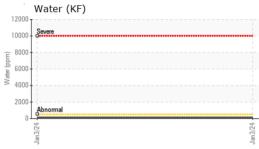
SAMPLE INFORM	<b>ATION</b>	method	limit/base	current	history1	history2
Sample Number		Client Info		KCPA010864		
Sample Date		Client Info		03 Jan 2024		
Machine Age	hrs	Client Info		44889		
Dil Age	hrs	Client Info		0		
Dil Changed		Client Info		N/A		
Sample Status				ABNORMAL		
WEAR METALS		method	limit/base	current	history1	history2
ron	ppm	ASTM D5185m	>50	<1		
Chromium	ppm	ASTM D5185m	>10	<1		
Nickel	ppm	ASTM D5185m	>3	0		
Titanium	ppm	ASTM D5185m	>3	0		
Silver	ppm	ASTM D5185m	>2	0		
Aluminum	ppm	ASTM D5185m	>10	2		
Lead	ppm	ASTM D5185m	>10	0		
Copper	ppm	ASTM D5185m		6		
Tin	ppm	ASTM D5185m	>10	0		
Vanadium	ppm	ASTM D5185m	210	0		
Cadmium	ppm	ASTM D5185m		0		
ADDITIVES	ppm	method	limit/base	current	history1	history2
Boron	nnm	ASTM D5185m	0	0		
Barium	ppm	ASTM D5185m	90	3		
	ppm		90	0		
Molybdenum	ppm	ASTM D5185m	0			
Manganese	ppm	ASTM D5185m	100	0		
Magnesium	ppm	ASTM D5185m	100	0		
Calcium	ppm	ASTM D5185m		1		
Phosphorus	ppm	ASTM D5185m	0	48		
Zinc	ppm	ASTM D5185m		0		
Sulfur	ppm	ASTM D5185m	23500	18362		
CONTAMINANTS	;	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	0		
Sodium	ppm	ASTM D5185m		0		
Potassium	ppm	ASTM D5185m	>20	<1		
Water	%	ASTM D6304	>0.05	0.009		
ppm Water	ppm	ASTM D6304	>500	94		
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647		94874		
Particles >6µm		ASTM D7647	>1300	<u> </u>		
Particles >14µm		ASTM D7647	>80	<b> </b> 1338		
Particles >21µm		ASTM D7647	>20	<u> </u>		
Particles >38µm		ASTM D7647	>4	<b>1</b> 3		
Particles >71µm		ASTM D7647	>3	1		
Oil Cleanliness		ISO 4406 (c)	>/17/13	<b>4</b> 24/22/18		
FLUID DEGRADA		method	limit/base	current	historv1	history2
					- motory r	- Anotory 2
FLUID DEGRADA Acid Number (AN)	<b>NTION</b> mg KOH/g	method ASTM D8045	limit/base 1.0	current 0.48	history1	his 

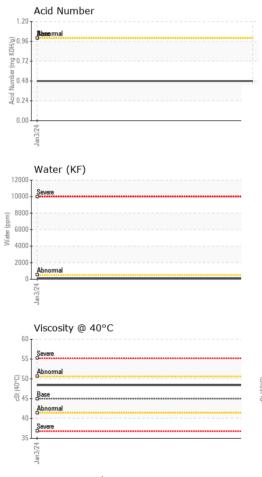


Built for a lifetime."

## **OIL ANALYSIS REPORT**







	VISUAL		method	limit/base	current	history1	history
	White Metal	scalar	*Visual	NONE	NONE		
	Yellow Metal	scalar	*Visual	NONE	NONE		
	Precipitate	scalar	*Visual	NONE	NONE		
	Silt	scalar	*Visual	NONE	NONE		
	Debris	scalar	*Visual	NONE	LIGHT		
	Sand/Dirt	scalar	*Visual	NONE	NONE		
	Appearance	scalar	*Visual	NORML	NORML		
	Odor	scalar	*Visual	NORML	NORML		
	Emulsified Water	scalar	*Visual	>0.05	NEG		
	Free Water	scalar	*Visual		NEG		
	FLUID PROPER	TIES	method	limit/base	current	history1	history
	Visc @ 40°C	cSt	ASTM D445	45	48.4		
	SAMPLE IMAGE	S	method	limit/base	current	history1	history
	Color					no image	no image
	Bottom					no image	no image
	GRAPHS						
	Ferrous Alloys				Particle Count		
	10 iron			491,520			
	8 - chromium			122,880			
2000	4			30,720			
	2			30,720			
					./		
	Jan 3/24			Jan3/24 per 1 ml)			
	-			63 23	N. 1	1	
	Non-ferrous Meta	als		othed 480			
	8 copper			ja 120			
	sessesses ead			<u>a</u> 120			
	6					• /	
~~~~	6 tin			30		• /	
	6			30	Bioremal	• /	
	2			8	<b>Abræe</b> mal		
m.n.n	2			8	Boreemal		
200	2 0 4 2 0 4 2 0 8 2 0 4 2 0 8 2 0 8 2 0 8 2 0 8 2 0 8 2 0 8 2 0 8 2 0 8 2 0 8 2 0 8 2 0 8 2 0 8 2 0 8 2 0 8 2 0 8 2 0 8 2 0 8 2 0 8 2 0 8 2 8 2			8	μ 6μ	14μ 21μ	
	2			30 8 47/2 2 9 7 0 4		14μ 21μ	
	Viscosity @ 40°C			30 8 47/2 2 9 7 0 4	μ 6μ	14μ 21μ	
	Viscosity @ 40°C			30 8 47/2 2 9 7 0 4	Acid Number	14μ 21μ	
	Viscosity @ 40°C			30 8 47/2 2 9 7 0 4	Acid Number	14μ 21μ	
	Viscosity @ 40°C			30 8 47/2 2 9 7 0 4	Acid Number	14μ 21μ	
	Viscosity @ 40°C			Jan 3/24	Acid Number	14μ 21μ	

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)

Certificate L2367

T:

F: