

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.

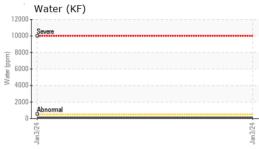
SAMPLE INFORM	ATION	method	limit/base	current	history1	history2
Sample Number		Client Info		KCPA010864		
Sample Date		Client Info		03 Jan 2024		
Machine Age	hrs	Client Info		44889		
Dil Age	hrs	Client Info		0		
Dil Changed		Client Info		N/A		
Sample Status				ABNORMAL		
WEAR METALS		method	limit/base	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	 1338		
Particles >21µm		ASTM D7647	>20	<u> </u>		
Particles >38µm		ASTM D7647	>4	1 3		
Particles >71µm		ASTM D7647	>3	1		
Oil Cleanliness		ISO 4406 (c)	>/17/13	4 24/22/18		
FLUID DEGRADA		method	limit/base	current	historv1	history2
					- motory r	- Anotory 2
FLUID DEGRADA Acid Number (AN)	NTION mg KOH/g	method ASTM D8045	limit/base 1.0	current 0.48	history1	his

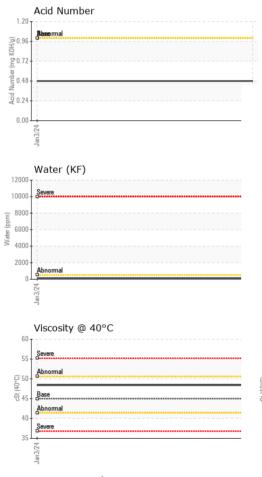


Built for a lifetime."

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	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

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