

OIL ANALYSIS REPORT



ISO

Machine Id 7700332 (S/N 1620) 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	NATION	method	limit/base	current	history1	history2
Sample Number		Client Info		KCPA010663		
Sample Date		Client Info		04 Jan 2024		
Machine Age	hrs	Client Info		4134		
Oil Age	hrs	Client Info		0		
Oil Changed		Client Info		N/A		
Sample Status				ABNORMAL		
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>50	0		
Chromium	ppm	ASTM D5185m		0		
Nickel	ppm	ASTM D5185m	>3	0		
Titanium	ppm	ASTM D5185m		0		
Silver		ASTM D5185m	>2	0		
	ppm			-		
Aluminum	ppm	ASTM D5185m	>10	0		
Lead	ppm	ASTM D5185m	>10	0		
Copper	ppm	ASTM D5185m	>50	7		
Tin	ppm	ASTM D5185m	>10	0		
Vanadium	ppm	ASTM D5185m		0		
Cadmium	ppm	ASTM D5185m		0		
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	0		
Barium	ppm	ASTM D5185m	90	0		
Molybdenum	ppm	ASTM D5185m	0	0		
Manganese	ppm	ASTM D5185m		0		
Magnesium	ppm	ASTM D5185m	100	10		
Calcium	ppm	ASTM D5185m	0	0		
Phosphorus	ppm	ASTM D5185m	0	0		
Zinc	ppm	ASTM D5185m	0	34		
Sulfur	ppm	ASTM D5185m	23500	17837		
CONTAMINANTS	5	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	<1		
Sodium	ppm	ASTM D5185m		5		
Potassium	ppm	ASTM D5185m	>20	0		
Water	%	ASTM D6304	>0.05	0.005		
ppm Water	ppm	ASTM D6304	>500	57		
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647		29475		
Particles >6µm		ASTM D7647	>1300	<u> </u>		
Particles >14µm		ASTM D7647	>80	<u> </u>		
Particles >21µm		ASTM D7647	>20	<u> </u>		
Particles >38μm		ASTM D7647	>4	3		
Particles >71µm		ASTM D7647		1		
Oil Cleanliness		ISO 4406 (c)	>17/13	21/17		
FLUID DEGRADA		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	1.0	0.35		



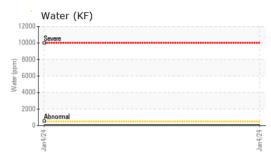
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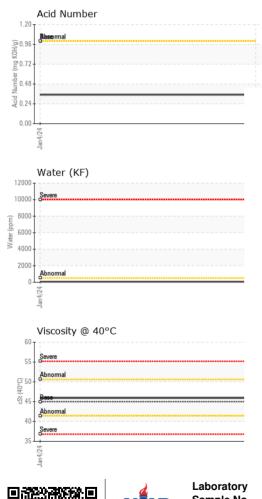
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Built for a lifetime."











- 10	VISUAL		method	limit/base	current	history1	history
	White Metal	scalar	*Visual	NONE	LIGHT		
	Yellow Metal	scalar	*Visual	NONE	NONE		
	Precipitate	scalar	*Visual	NONE	NONE		
	Silt	scalar	*Visual	NONE	NONE		
	Debris	scalar	*Visual	NONE	NONE		
	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 PROPERT	IES	method	limit/base	current	history1	histor
	Visc @ 40°C	cSt	ASTM D445	45	45.9		
	SAMPLE IMAGES	;	method	limit/base	current	history1	histor
	Color					no image	no imag
				4			
	Bottom			1	6300	no image	no imag
	GRAPHS						
nini -							
	Ferrous Alloys				Particle Count		
1				491,520	Particle Count	1	
	8 iron 8 chromium				Particle Count		
mdd	8 iron chromium			491,520	Particle Count		
	10 8 6 6			491,520	Particle Count		
	iron 6 4 2 0			491,520 122,880 30,720 7,680	Particle Count		
	iron 6 4 2 0			491,520 122,880 30,720 7,680	Particle Count		
	iron iron chromium nickel chromium nickel			491,520 122,880 30,720 7,680	Particle Count		
mqq	Non-ferrous Metals	5		491,520 122,880 30,720 7,680	Particle Count		
mqq	iron iron chromium nickel chromium nickel	5		491,520 122,880 30,720 7,680	Particle Count		
mqq	Non-ferrous Metals	5		491,520 122,880 30,720 7,680 62 122 122,880 120,890 120,890 120,890 120,890 120,890 120,890 120,890 120,890 120,990 10	Particle Count		
mqq	Non-ferrous Metals	5		491,520 122,880 30,720 7,680 60 60 60 60 60 60 7,680 7,680 1,920 60 60 60 7,680 1,920 60 60 60 7,680 1,920 60 7,680 1,920 60 7,680 1,920 60 7,680 1,920 60 7,680 1,920 60 7,680 1,920 60 7,680 1,920 1	Particle Count		
mqq	Non-ferrous Metals	5		491,520 122,880 30,720 7,680 62 42 480 50 50 50 50 50 50 50 50 50 50 50 50 50	Particle Count		
шdd	Non-ferrous Metals	5		491,520 122,880 30,720 7,680 7,680 7,680 7,680 7,680 7,680 7,680 7,680 7,680 7,680 7,680 7,680 7,680 7,680 7,680 7,680 7,680 7,680 7,680 7,00 8,00 9,00 9,00 9,00 9,00 9,00 9,00 9			
mqq	Non-ferrous Metals	5		491,520 122,880 30,720 7,680 420 480 480 120 30,720 122,880 120,980 120,990 120,9	Béresemal		
mqq	Non-ferrous Metals	5		491,520 122,880 30,720 7,680 7,680 7,680 7,680 7,680 7,680 7,680 7,680 7,680 7,680 7,680 7,680 7,680 7,680 7,680 7,680 7,680 7,680 7,680 7,00 8,00 9,00 9,00 9,00 9,00 9,00 9,00 9	Béresemal	14μ 21μ	36μ 7
udd dd	Non-ferrous Metals	5		491,520 122,880 30,720 7,680 62,7 121,7 122,880 7,680 120 120 120 120 120 120 120 12	Bereemal		36μ 7
wdd e e	Non-ferrous Metals	5		491,520 122,880 30,720 7,680 62,7 121,7 122,880 7,680 120 120 120 120 120 120 120 12	Bereemal Acid Number		38µ T
wdd e e	Non-ferrous Metals	5		491,520 122,880 30,720 7,680 62,7 121,7 122,880 7,680 120 120 120 120 120 120 120 12	Bereemal Acid Number		36μ 7
cSt (40°C) ppm ppm	Non-ferrous Metals	5		491,520 122,880 30,720 7,680 62,7 121,7 122,880 7,680 120 120 120 120 120 120 120 12	Bereemal Acid Number		38μ 7
cSt (40°C) ppm	Non-ferrous Metals	5		491,520 122,880 30,720 7,680 420 480 480 120 30,720 122,880 120,980 120,990 120,9	Bereemal Acid Number		38µ 7
cSt (40°C) ppm	Non-ferrous Metals	5		491,520: 122,880 30,720 7,680 7,680 7,680 7,680 7,680 122,880 122,980 122,980 120,980 120,980 120,980 120,980 120,980 120,980 120,980 120,980 120,980 120,980 120,980 120,980 120,980 120,990 120,	Bereemal Acid Number		38μ

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

Contact/Location: Service Manager - GARSALKC