

## **OIL ANALYSIS REPORT**



Machine Id

# 4982845 (S/N 1354)

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

### DIAGNOSIS

#### Recommendation

We recommend you service the filters on this component. 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>IATION</b>	method	limit/base	current	history1	history2
Sample Number		Client Info		KCPA015554		
Sample Date		Client Info		19 Mar 2024		
Machine Age	hrs	Client Info		32654		
Oil Age	hrs	Client Info		3046		
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	>10	0		
Nickel	ppm	ASTM D5185m	>3	0		
Titanium	ppm	ASTM D5185m	>3	0		
Silver	ppm	ASTM D5185m	>2	0		
Aluminum	ppm	ASTM D5185m	>10	0		
Lead	ppm	ASTM D5185m	>10	0		
Copper	ppm			11		
Tin	ppm	ASTM D5185m	>10	0		
Vanadium		ASTM D5185m	210	0		
Cadmium	ppm ppm	ASTM D5185m		0		
ADDITIVES	ppm	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	0		
Barium	ppm	ASTM D5185m	90	<1		
Molybdenum	ppm	ASTM D5185m	0	0		
Manganese	ppm	ASTM D5185m		0		
Magnesium	ppm	ASTM D5185m	100	0		
Calcium	ppm	ASTM D5185m	0	<1		
Phosphorus	ppm	ASTM D5185m	0	0		
Zinc	ppm	ASTM D5185m	0	0		
Sulfur	ppm	ASTM D5185m	23500	22121		
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	0		
Sodium	ppm	ASTM D5185m		0		
Potassium	ppm	ASTM D5185m	>20	0		
Water	%	ASTM D6304	>0.05	0.006		
ppm Water	ppm	ASTM D6304	>500	64		
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647		15551		
Particles >6µm		ASTM D7647	>1300	🔺 4747		
Particles >14µm		ASTM D7647	>80	<b>4</b> 41		
Particles >21µm		ASTM D7647	>20	<u> </u>		
Particles >38µm		ASTM D7647	>4	<u> </u>		
Particles >71µm		ASTM D7647	>3	0		
Oil Cleanliness		ISO 4406 (c)	>/17/13	<b>A</b> 21/19/16		
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	1.0	0.45		
	39		-			



10000. 8000 Water (ppm) 6000 4000 2000 Abno 0. Mar19/24

Built for a lifetime."

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		VISUAL		method	limit/base	current	history1	history2
4μm 6μm		White Metal	scalar	*Visual	NONE	NONE		
14μm		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		
+ 7 /0	9/24	Appearance	scalar	*Visual	NORML	NORML		
477C I IDM	Mar19	Odor	scalar	*Visual	NORML	NORML		
		Emulsified Water	scalar	*Visual	>0.05	NEG		
Water (KF)		Free Water	scalar	*Visual	20.00	NEG		
Severe					line it //e e e e		la la ta mud	history O
		FLUID PROPER	cSt	method ASTM D445	limit/base	current 50.5	history1	history2
					-			
		SAMPLE IMAGE	5	method	limit/base	current	history1	history2
	Mar19/24	Color					no image	no image
Acid Number		Bottom					no image	no image
		GRAPHS						
		Ferrous Alloys				Particle Couni		
		<sup>10</sup> T			491,52			T <sup>26</sup>
		8 - iron chromium			122,880			-24
4-7 /C   1944	2 C C C	E 6			122,000			21
		° 4-			30,72	D-		-22
Water (KF)		2			7,68			-20
		24	*****			1.		
Severe		Mar19/24			Mar19/24- particles (per 1 ml) 88			-18
		 Non-ferrous Meta	le		- <u>8</u> 		<u>``</u>	16
		<sup>15</sup> T			of par			+18 +16 +14
		copper			bangung 12	2		-14
		10 - tin			31			+12
Abnormal		읍 5					````	
	Ver					Bibrevernal		10
1-77C I III M	11-10	0 5 2				2		
	si	Mar19/24			Mar19/24			
/iscosity @ 40°C					S	4μ 6μ	14µ 21µ	38µ 71µ
Severe		Viscosity @ 40°C				Acid Number		627 Tool (1977 1975
Severe		55 - Severe			(BHO) 1.20	Basermal		
Abnormal					Q 0.9			
Base		(2000 − Abnormal 0000 − Base 83 45 − Base	*****		U.73 الله الله الله الله الله الله الله الل			
Abnormal		40+			4 0.41 Minute Market Ma			
Severe		35 Severe						
	۲				9/24	9/24		
+7/6 I BM	0.01-01	Mar19,24			Mar19/24	Mar19,24		
			Receiv Tested Diagn sts: KF, Pr	ved : 11 d : 12 osed : 15 rtCount )	Apr 2024 2 Apr 2024 Apr 2024 - Don	Baldridge		ORPORATIO 60 EASY S UELLTON, C US 9342 ervice Manage

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Contact/Location: Service Manager - EXCBUE

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