

OIL ANALYSIS REPORT

Sample Rating Trend



Machine Id

KAESER 2507967

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

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

The amount and size of particulates present in the system are acceptable. There is no indication of any contamination 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	IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		KC06151146		
Sample Date		Client Info		14 Mar 2024		
Machine Age	hrs	Client Info		34878		
Oil Age	hrs	Client Info		0		
Oil Changed		Client Info		N/A		
Sample Status				NORMAL		
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	<1		
Titanium	ppm	ASTM D5185m	>3	0		
Silver	ppm	ASTM D5185m	>2	0		
Aluminum	ppm	ASTM D5185m	>10	<1		
Lead	ppm	ASTM D5185m	>10	0		
Copper	ppm	ASTM D5185m	>50	3		
Tin	ppm	ASTM D5185m	>10	<1		
Vanadium	ppm	ASTM D5185m		0		
Cadmium	ppm	ASTM D5185m		0		
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		0		
Barium	ppm	ASTM D5185m	90	0		
Molybdenum	ppm	ASTM D5185m		0		
Manganese	ppm	ASTM D5185m		1		
Magnesium	ppm	ASTM D5185m	90	31		
Calcium	ppm	ASTM D5185m	2	<1		
Phosphorus	ppm	ASTM D5185m		20		
Zinc	ppm	ASTM D5185m		6		
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	0		
Sodium	ppm	ASTM D5185m	00	9		
Potassium	ppm	ASTM D5185m	>20	3		
Water	%	ASTM D6304	>0.05	0.015		
ppm Water	ppm	ASTM D6304	>500	158		
FLUID CLEANLIN	ESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647		560		
Particles >6µm		ASTM D7647	>1300	92		
Particles >14µm		ASTM D7647	>80	8		
Particles >21µm		ASTM D7647		2		
Particles >38µm		ASTM D7647	>4	0		
Particles >71µm		ASTM D7647	>3	0		
Oil Cleanliness		ISO 4406 (c)	>/17/13	16/14/10		
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	0.4	0.39		



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Water (KF)			VISUAL		method	limit/base	current	history1	history2
10000 - Severe			White Metal	scalar	*Visual	NONE	NONE		
			Yellow Metal	scalar	*Visual	NONE	NONE		
8000 - 6000 - 4000 -			Precipitate	scalar	*Visual	NONE	NONE		
4000			Silt	scalar	*Visual	NONE	NONE		
			Debris	scalar	*Visual	NONE	NONE		
2000 Abnormal			Sand/Dirt	scalar	*Visual	NONE	NONE		
1/24		4/24	Appearance	scalar	*Visual	NORML	NORML		
Mar14/24		Mar14,/24	Odor	scalar	*Visual	NORML	NORML		
			Emulsified Water	scalar	*Visual	>0.05	NEG		
Particle Trer	D		Free Water	scalar	*Visual		NEG		
 <u>β</u> <u>β</u> <u>β</u> <u>β</u> <u>β</u> <u>β</u> <u>β</u> <u>β</u> <u>β</u> <u>β</u>			FLUID PROPER		method	limit/base	current	history1	history2
solution of the second			Visc @ 40°C	cSt	ASTM D445	46	44.2		
adm one of o of o of o of o of o of o of o			SAMPLE IMAGE	S	method	limit/base	current	history1	history2
Water (KF)		Mar14,/24	Color					no image	no image
2000 0000 - Severe 8000 -			Bottom				•	no image	no image
6000			GRAPHS						
4000			Ferrous Alloys				Particle Count	:	
2000 Abnormal			¹⁰			491,520	Ι		T ²⁶
0		e.	8 assessment chromium			122,880	+		-24
Mar14/24		CI 1 1-	E 6						
Ma		14	4			30,720	1		-22
Viscosity @	40°C					7,680	· ·		-20
52 Abnormal			4/24			4/24 -	N.		-18 -18 -16 -14
50			Mar14/24			Mar14/24 s (per 1 m)	1		+18
48 Base			Non-ferrous Meta	als				· · · · · · · · · · · · · · · · · · ·	-16
12 46 - Base 14 - 5 44 - 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	***************************************		¹⁰ I			Mar14/24 9200 A million 4/24 1200 A million 1200 1200 A million 12			
42			8 - copper lead			ja 120		N	14
40 Abnormal			E 6			30			-12
38			- 4						-10
Mar14/24		V GI V E					Serer emal		Tic
Mar		A.A.	0			st o	+		-8
Particle Trer	nd		Mar14/24			Mar14/24			
^{1k}			Viscosity @ 40°C				^{6µ} Acid Number	14µ 21µ	38µ 71µ
= 1k - 6μm 14μm			⁵⁵			<u>,</u> 0.50			
0k 14μm			50 Abnormal			(^{0.50} Hog 0.40	- Base		
pitred Ok -			Base 45 45			Ē0.30			
			40 - Abnormal			40.20 Point Point			
e ok						Z 0.10			
0k			35 4			0.00			
Mar14/24 -		N C1 N	Mar14,24			Mar14/24	Mar14,/24		
Mari		h di nord	2			2	2		
			: WearCheck USA - 5 : KC06151146	01 Madisc Rece Teste	ived : 16	7, NC 27513 6 Apr 2024 9 Apr 2024	CL		RY CLEANIN 23 N KING S SONVILLE, N
		Unique Number Test Package his sample report,	: 10981224 : IND 2 <i>contact Customer Ser</i>	Diagr	nosed : 19 800-237-136	Apr 2024 - Don 9.	Baldridge		US 287 ervice Manag
	To discuss the * - Denotes te	Unique Number Test Package is sample report, est methods that a	: 10981224 : IND 2	Diagr vice at 1-8 17025 sco	nosed : 19 800-237-1368 ope of accred	Apr 2024 - Don 9. ditation.	-	Contact: Se	US 287

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Contact/Location: Service Manager - CUSHENKC