

### **OIL ANALYSIS REPORT**

Sample Rating Trend



Machine Id

# KAESER SK 26 1423887 (S/N 0267621)

Component Compressor Fluid

KAESER SIGMA (OEM) M-460 (--- GAL)

#### DIAGNOSIS

#### Recommendation

No corrective action is recommended at this time. Oil and 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	IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		KCPA013367		
Sample Date		Client Info		26 Apr 2024		
Machine Age	hrs	Client Info		0		
Oil Age	hrs	Client Info		0		
Oil Changed		Client Info		Changed		
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	<1		
Lead	ppm	ASTM D5185m	>10	0		
Copper	ppm	ASTM D5185m	>50	0		
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	0		
Barium	ppm	ASTM D5185m	90	20		
Molybdenum	ppm	ASTM D5185m	0	0		
Manganese	ppm	ASTM D5185m		<1		
Magnesium	ppm	ASTM D5185m	100	78		
Calcium	ppm	ASTM D5185m	0	3		
Phosphorus	ppm	ASTM D5185m	0	8		
Zinc	ppm	ASTM D5185m	0	13		
Sulfur	ppm	ASTM D5185m	23500	21285		
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	8		
Sodium	ppm	ASTM D5185m		16		
Potassium	ppm	ASTM D5185m	>20	2		
Water	%	ASTM D6304	>0.05	0.013		
ppm Water	ppm	ASTM D6304	>500	131		
FLUID CLEANLIN	ESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647		48494		
Particles >6µm		ASTM D7647	>1300	<u> </u>		
Particles >14µm		ASTM D7647	>80	<b>670</b>		
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> 23/20/17		
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	1.0	0.37		



## **OIL ANALYSIS REPORT**

50k	Particle Trend				VISUAL		method	limit/b	ase	current
	4μm 6μm			٧	White Metal	scalar	*Visual	NONE		NONE
E 40k	14μm			١	Yellow Metal	scalar	*Visual	NONE		NONE
u [] sapitices (] u losk				F	Precipitate	scalar	*Visual	NONE		NONE
5 20k					Silt	scalar	*Visual	NONE		NONE
agen 10k	*****		*****	C	Debris	scalar	*Visual	NONE		NONE
0k				S	Sand/Dirt	scalar	*Visual	NONE		NONE
U.L.	Apr26/24		Apr26/24 -	F	Appearance	scalar	*Visual	NORM	L	NORML
	Apr2		Apr2	C	Odor	scalar	*Visual	NORM	L	NORML
*	Water (KF)			E	Emulsified Water	scalar	*Visual	>0.05		NEG
12000				F	Free Water	scalar	*Visual			NEG
10000	Severe				FLUID PROPERT	IES	method	limit/b	ase	current
0008 Matter (ppm)				١	/isc @ 40°C	cSt	ASTM D445	45		45.2
4000					SAMPLE IMAGES	6	method	limit/b	ase	current
2000	Abnormal									
	Apr26/24		Apr26/24	C	Color					
1.20 (6)1.96	Acid Number			E	Bottom					
(B/HO) Bull (B/HO)					GRAPHS					
48- N P			· · · · · · · · · · · · · · · · · · ·		Ferrous Alloys				F	Particle Count
9 0.24				10	iron				491,520	
0.00	Apr26/24		۲C C	8 mdd	chromium nickel				122,880	
	Apr2		۸۸	<del>ت</del> 4 2					30,720	
12000 - 10000 - (mdd) 1 6000 -	Water (KF)			0	/24			(/24	7,680-	
	Severe				Apr26/24			Apr26/24 number of particles (per 1 ml)	1,920 -	$\sim$
				10	Non-ferrous Metals	5		f partic	480-	N I
6000 4000				8	copper			nber o	120-	
2000				mqq 6				unu	30 -	
2000	Abnormal			<sup>td</sup> 4						
0	Apr26/24 -		V CL Z	2					8 34	weemal
	Apr2		Sand	0	/24			/24	2-	
	Viscosity @ 40°	°C			Apr26/24			Apr26/24	0	
60					Viscosity @ 40°C				4μ	ہو Acid Number
55	Severe	*****	****	60	Severe				© <sup>1.20</sup>	Rasemal
ç 50-	Abnormal			55					(B/HOX 0.96 B/HOX 0.72	
(0.04) 35 45	Base			(0-05) tS3 (45	Base				E 0.72 -	
	Abnormal				Abnormal				aquin 0.48	
40	Severe			35	Severe				PB 0.00	
35			v c		Apr26/24			Apr26/24	Apr/26/24	
	Apr26/24		1.2CmV		Apri			Apr	Anró	
		* - Denotes te	s sample report st methods that	: K0 : 06 : 11 : IN t, con	earCheck USA - 501 CPA013367 0174635 020688 D 2 ( Additional Test tact Customer Servic putside of the ISO 17 ications are based of	Recei Teste Diagr ts: KF, P ce at 1-8 7025 sco	ved : 09   d : 13   iosed : 13   rtCount ) :   00-237-1369 :   pe of accred :	May 20 May 20 May 2024 D. D.	924 924 - Don Ba	-

TONY L LOPES DAIRY 27500 BUNKER RD GUSTINE, CA US 95322 Contact: Service Manager tonylopesdairy@gmail.com T: F:

38,4

21µ

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012) Report Id: TONGUSCA [WUSCAR] 06174635 (Generated: 05/13/2024 13:59:07) Rev: 1

Contact/Location: Service Manager - TONGUSCA

history1

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Apr26/24 -