

Sample Rating Trend

WEAR



Machine Id KAESER CSD 125 8983673 (S/N 1137)

Component Compressor

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

DIAGNOSIS

Recommendation

No corrective action is recommended at this time. The filter change at the time of sampling has been noted.

🔺 Wear

The aluminum level is abnormal. All other component wear rates are normal.

Contamination

There is a high amount of particulates present in the oil.

Fluid Condition

Additive levels indicate the addition of a different brand, or type of oil. Confirm oil type. The AN level is acceptable for this fluid.

SAMPLE INFORM	/IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		KC06204659		
Sample Date		Client Info		05 Jun 2024		
Machine Age	hrs	Client Info		890		
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	2		
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	<u> </u>		
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		
Barium	ppm	ASTM D5185m	90	6		
Molybdenum	ppm	ASTM D5185m		0		
Manganese	ppm	ASTM D5185m		<1		
Magnesium	ppm	ASTM D5185m	90	<1		
Calcium	ppm	ASTM D5185m	2	0		
Phosphorus	ppm	ASTM D5185m		61		
Zinc	ppm	ASTM D5185m		6		
CONTAMINANTS	;	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	0		
Sodium	ppm	ASTM D5185m		2		
Potassium	ppm	ASTM D5185m	>20	5		
Water	%	ASTM D6304	>0.05	0.022		
ppm Water	ppm	ASTM D6304	>500	220		
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647		10159		
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	1		
Particles >71µm		ASTM D7647	>3	0		
Oil Cleanliness		ISO 4406 (c)	>/17/13	A 21/19/14		
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	0.4	0.10		



Built for a lifetime." A Particle Trend

10k (1 ml) 8' (

12000

10000

8000 Water (ppm) 6000

(B/HOX BW) BW)

- a 0.20 0.10 0.00

OIL ANALYSIS REPORT

Additives Mater (KF) Additives GRAPHS Additives Scalar Additives Scalar Additives Scalar Scalar Visual None None Non- None<		Particle Trend	VISUAL		method	limit/base	current
Additives Precipitate scalar Visual NONE NONE Additives Scalar Visual NONE NONE NONE Additives Scalar Visual NONE NONE NONE Mumbur (pm) Scalar Visual NORML NORML NORML Mumbur (pm) Scalar Visual NorMe NorMe NorMe Mumbur (pm) (pm) (pm) (pm) (pm) <td< th=""><th></th><th>4μm</th><th></th><th></th><th></th><th></th><th></th></td<>		4μm					
Additives Precipital Scalar Visual NONE NONE Additives State Visual NONE NONE NONE Additives Scalar Visual NONE NONE NONE Muminum (ppm) Scalar Visual NONE NONE NONE Visc@ 40°C CS ASTMOL45 46.3 NONE NONE Visc@ 40°C CS ASTMOL45 46.3 46.3 Mumber State Miscal Imitbase curre Visc@ 40°C CS ASTMOL45 46.3 46.3 Mumber Sample No. Sample No. Sample No. Sample No. Mumber Sample No. Sample No. Sample No. Sample No. Sample No. State State Sample No. State State Sample No. S	Ē ^{10k} ∙						-
Sitt gcalar Visual NONE NONE Aduminum (ppm) Debris scalar Visual NORML NORM Aduminum (ppm) Debris scalar Visual NORML NORML Aduminum (ppm) Debris scalar Visual NORML NORML Aduminum (ppm) Debris scalar Visual NORML NORML Color Enulsified Water scalar Visual NORML NORML Additives Enulsified Water scalar Visual NORML NORML Monor Enulsified Water scalar Visual NORML NORML Color Color Status SAMPLE IMAGES method Imitbase curre Weter (Kf) Or Color Status Scalar Status Scalar	salo 8k -						
Additives Obbits scalar Visual NONE NONE Additives Color SameDirit scalar Visual NORML NORML Additives Color Scalar Visual NORML NORML Additives Color Scalar Visual NORML NORML Additives Color Scalar Visual NOR Neg Additives method limitbase curre Viscoge 40°C CSI ASTM D445 46 46.3 SAMPLE IMAGES method limitbase curre Viscoge 40°C CSI ASTM D445 46 46.3 SAMPLE IMAGES method limitbase curre Viscoge 40°C CSI ASTM D445 46 46.3 Mon-ferrous Metals Mon-ferrous Metals <td< th=""><th>led 6k -</th><th></th><th></th><th></th><th></th><th></th><th>-</th></td<>	led 6k -						-
Adjuminum (ppm) Debris scalar Visual NONE NONE Adjuminum (ppm) File Water Scalar Visual NORML NORM Adjuminum (ppm) File Water scalar Visual NORML NORM Adjuminum (ppm) File Water scalar Visual NORML NORM Color Scalar Visual NORML NORM NORM Multives Graphes method limit/base curre Multives Graphes method motion motion graphes Multives Graphes motion motion motion graphes Multives Graphes motion <	a 4k •						
Appearance scalar 'Visual NORML NORM Appearance scalar 'Visual NORML NORM Aduminum (ppm) Aduminum (ppm) Ad	2k -						
Aluminum (ppm) Aluminum (ppm)	0k	4 4					
Aluminum (ppm) Aluminum (ppm)		un5/2 un5/2					
Additives Color		۔ ۲					
Image: second		Aluminum (ppm)				>0.05	
FLUID PROPERTIES method limitbase curre Visc @ 40°C cSt ASTM D445 46 46.3 SAMPLE IMAGES method Imitbase curre Octor Color Color Color Mater (KF) Mater (KF) Mon-ferrous Alloys Particle Mater (KF) Mon-ferrous Metals Mon-ferrous Metals Mon-ferrous Metals Mon-ferrous Metals		Sanara	Free Water	scalar	*Visual		NEG
Visc @ 40°C cSt ASTM D445 46 46.3 SAMPLE IMAGES method Imit/base curre Color Color Color Color Color Color Careeria Color Color Careeria Color Careeria Color Careeria Color Color Careeria Color Color Careeria Color Color Careeria Color Color Careeria Color Color Careeria Color Color Color Careeria Color Color Color Color Careeria Color Co		access.	FLUID PROPERT	IES	method	limit/base	current
SAMPLE IMAGES method imitbase curre SAMPLE IMAGES method imitbase curre Color			Visc @ 40°C	cSt	ASTM D445	46	46.3
Color Additives			SAMPLE IMAGES	;	method	limit/base	current
Color Co		Abnormai					
Additives	01	in5/24 +	Color				a
Bottom Bottom Bottom Bottom Bottom CRAPHS Ferrous Alloys Vater (KF) Mater (KF) Acid Number Acid Number Acid Number Acid Number Mater (KF) Mon-ferrous Metals Mon-ferrous Metals Metals Mon-ferrous Metals Metals Mon-ferrous Metals Metals Mon-ferrous Metals Mon-ferrous Metals		۲ ۲					
Image: Since and the second	120	Additives					
Acid Number OFFAPHS Acid Number Organization Acid Number Organization Organization Organization Acid Number Organization Organization Organization <td< th=""><th></th><td></td><td>Bottom</td><td></td><td></td><td></td><td></td></td<>			Bottom				
Acid Number Viscosity @ 40°C Acid Number Viscosity @ 40°C <t< th=""><th>80-</th><td></td><td></td><td></td><td></td><td></td><td></td></t<>	80-						
Acid Number Viscosity @ 40°C Acid Number Viscosity @ 40°C <t< th=""><th>E 60-</th><td></td><td>GRAPHS</td><td></td><td></td><td></td><td></td></t<>	E 60-		GRAPHS				
Acid Number Acid	40		Ferrous Alloys				Particle Count
Water (KF) Water (KF) Mon-ferrous Metals Mon-ferrous Metals Mo	20		¹⁰ T				
Water (KF) Water (KF) Won-ferrous Metals Mon-ferrous Metals Mon-ferrous Metals Mon-ferrous Metals Wiscosity @ 40°C Viscosity @ 40°C Viscosity @ 40°C Mon-ferrous Metals Mon-ferrous Metals Mon-ferr	0	er er	o assessesses chromium			122,880	+
Water (KF) Water (KF) Won-ferrous Metals Mon-ferrous Metals Mon-ferrous Metals Mon-ferrous Metals Wiscosity @ 40°C Viscosity @ 40°C Viscosity @ 40°C Mon-ferrous Metals Mon-ferrous Metals Mon-ferr		Jun5/2-				30.720	
Acid Number Acid Acid Number Acid Acid Number Acid Acid Number Acid Acid Number Acid Number Acid Number Acid Number Acid Number Acid Number Acid Number Acid Acid Number Acid Acid Number Acid Acid Number Acid Acid			2				
Acid Number Acid Number Acid Number Uiscosity @ 40°C Uiscosity		Water (KF)					
Acid Number Acid Number Acid Number Uiscosity @ 40°C Uiscosity	0000	Severe	Jun5/			/sun 1,920	
Acid Number Acid Number Acid Number Uiscosity @ 40°C Uiscosity	8000-		Non-ferrous Metals	5		· 1월 480	· · · / ·
Acid Number Acid Number Acid Number Uiscosity @ 40°C Uiscosity	6000					r of p	
Acid Number Acid Number Acid Number Uiscosity @ 40°C Uiscosity	4000		o - neessaaaaa lead			aquin 120	Ī
Acid Number Acid Number Acid Number Uiscosity @ 40°C Uiscosity	2000	Abaamad					-
Acid Number Viscosity @ 40°C Viscosity @ 40°C	0		2			8	Rhammal
Acid Number Viscosity @ 40°C Viscosity @ 40°C		un5/2 un5/2					
Acid Number Viscosity @ 40°C Viscosity @ 40°C		<u>ر</u> د	in5/24			n5/24	•
Viscosity @ 40°C Viscosity @ 40°C Viscosity @ 40°C Viscosity @ 40°C Acid Nu	0.55	Acid Number					4μ 6μ 1
$\mathbf{k}_{1} = \mathbf{k}_{2} = \mathbf{k}_{2}$	0.50		, =				Acid Number
Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513 Sample No. : KC06204659 Received : 10 Jun 2024 Lab Number : 06204659 Tested : 12 Jun 2024	0.40	Dase	Abnormal			(B ^{0.50}	Base
Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513 Sample No. : KC06204659 Received : 10 Jun 2024 Lab Number : 06204659 Tested : 12 Jun 2024	0.30		D Base			2 0.40 E 0.30	
Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513 Sample No. : KC06204659 Received : 10 Jun 2024 Lab Number : 06204659 Tested : 12 Jun 2024	0.20		€ 45			e 0.20	
Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513 Sample No. : KC06204659 Received : 10 Jun 2024 Lab Number : 06204659 Tested : 12 Jun 2024	0 10					- ² 0.10	
Image: State of the state							**
Image: State of the state	0.004	15/24 -	Jun5/2			Jun5/2	Jun5/2
Sample No. : KC06204659 Received : 10 Jun 2024 Lab Number : 06204659 Tested : 12 Jun 2024		Jun	-			~	,
Sample No. : KC06204659 Received : 10 Jun 2024 Lab Number : 06204659 Tested : 12 Jun 2024						NO 07515	
Lab Number : 06204659 Tested : 12 Jun 2024] ;;;; ;						
	SR.						
	ψĘ						ug Bogart
Certificate L2367 Test Package : IND 2 To discuss this sample report contact Customer Service at 1-800-237-1369	3	Certificate L2367 Test Package	: IND 2	-			C

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)

Contact/Location: SERVICE MANAGER ? - ROSFRA

T:

F:

ROSE ACRES 8596 W. 700 SOUTH FRANCISVILLE, IN US 47946

Contact: SERVICE MANAGER

history2

history2

history2

no image

no image

OSI

1999 Cle

18 18

14

un5/24

history1

history1

history1

no image

no image

21µ

38,4