

# **OIL ANALYSIS REPORT**

Sample Rating Trend

ISO

Machine Id

9335825 (S/N 1047)

#### Component Compressor Fluid KAESER SIGMA (OEM) S-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 moderate 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		KCPA013756		
Sample Date		Client Info		22 Mar 2024		
Machine Age	hrs	Client Info		3617		
Oil Age	hrs	Client Info		3617		
Oil Changed		Client Info		Changed		
Sample Status				ATTENTION		
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>50	<1		
Chromium	ppm	ASTM D5185m	>10	<1		
Nickel	ppm	ASTM D5185m	>3	<1		
Titanium	ppm	ASTM D5185m	>3	<1		
Silver	ppm	ASTM D5185m	>2	0		
Aluminum	ppm	ASTM D5185m	>10	2		
Lead	ppm	ASTM D5185m	>10	<1		
Copper	ppm	ASTM D5185m	>50	2		
Tin	ppm	ASTM D5185m	>10	<1		
Vanadium	ppm	ASTM D5185m		<1		
Cadmium	ppm	ASTM D5185m		<1		
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		0		
Barium	ppm	ASTM D5185m	90	0		
Molybdenum	ppm	ASTM D5185m		<1		
Manganese	ppm	ASTM D5185m		<1		
Magnesium	ppm	ASTM D5185m	90	3		
Calcium	ppm	ASTM D5185m	2	3		
Phosphorus	ppm	ASTM D5185m		51		
Zinc	ppm	ASTM D5185m		5		
Sulfur	ppm	ASTM D5185m		704		
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	<1		
Sodium	ppm	ASTM D5185m		<1		
Potassium	ppm	ASTM D5185m	>20	1		
Water	%	ASTM D6304	>0.05	0.002		
ppm Water	ppm	ASTM D6304	>500	19		
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647		4542		
Particles >6µm		ASTM D7647	>1300	<u> </u>		
Particles >14µm		ASTM D7647	>80	<b>110</b>		
Particles >21µm		ASTM D7647	>20	27		
Particles >38µm		ASTM D7647	>4	1		
Particles >71µm		ASTM D7647	>3	0		
Oil Cleanliness		ISO 4406 (c)	>/17/13	<b>—</b> 19/18/14		
FLUID DEGRADA		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	0.4	0.13		
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Contact/Location: Service Manager - PROJES Page 1 of 2



# **OIL ANALYSIS REPORT**

White Metal  scalar  'Visual  NONE	history	history1	current	limit/base	method		VISUAL		Particle Trend
Image: state intervent in			NONE	NONE	*Visual	scalar	White Metal		4μm
Image: state intervent in			NONE	NONE	*Visual	scalar	Yellow Metal		
Image: sealar visual NONE  NONE  Image: sealar visual NONE  NONE  Image: sealar visual NORML  NORML  NORML  Image: sealar visual NORML  NORML  NORML  NORML  NOR			NONE	NONE	*Visual	scalar	Precipitate		3k -
Sandbirk Sudar Visual NORE NORE			NONE	NONE	*Visual	scalar	Silt		?k -
Appearance solar Visual NORML NORML			NONE	NONE	*Visual	scalar	Debris		k -
Water (K5)  Odor is scalar 'Visual NORML NORM			NONE	NONE	*Visual	scalar	Sand/Dirt		)k
Water (KF) Mater			NORML	NORML	*Visual	scalar	Appearance	22/24	22/24
Water (KF)  Free Water  scalar  Visual  NEG     Model  Imabase  current  hastory1  Imabase  current  hastory1  Imabase    Model  Model  Imabase  current  hastory1  Imabase  current  hastory1  Imabase    Model  Model  Imabase  current  hastory1  Imabase  Imabase  current  hastory1  Imabase  Imabase  current  hastory1  Imabase  Imabase  Imabase  current  hastory1  Imabase  Imabase<			NORML	NORML	*Visual	scalar	Odor	Mar	Mar
Free Water scalar 'Visual NEG Field DPPERTIES method innibase corrent heatory 1 Visc @ 40°C c.St. ASTM D445 46 46.7 SAMPLE IMAGES method innibase corrent heatory 1 Visc @ 40°C c.St. ASTM D445 46 46.7 SAMPLE IMAGES method innibase corrent heatory 1 Color International Corrent Count of the start of			NEG	>0.05	*Visual	scalar	Emulsified Water		Water (KF)
Add Rumber Add Ru			NEG		*Visual	scalar	Free Water		<sup>10</sup> T
Add Number  SAMPLE IMAGES  method  imtobase  current  instroy1  instroy1    Add Number  Color  Imtobase  current  instroy1  in	history	history1	current	limit/base	method	IES	FLUID PROPERT		
Add Number  Color  Image  no image  no    Add Number  Image  no image  no  <			46.7	46	ASTM D445	cSt	Visc @ 40°C		
Add Number Add Number Number Number Number Number Number Number Number Number Number Number Number Number Number Number Number Number Number Number Number Number Number Number Number Number Number Number Number Number Number Number Number Number Number Number Number Number Number Number Number Number Number Number Number Number Number Number Number Number Number Number Number Number Number Number Number Number Number Number Number Number Number Number Number Number Number Number Number Number Number Number Number Number Number Number Number Number Number Number Number Number Number Number Number Number Number Number Number Number Number Number Number Number Number Number Number Number Number Number Number Number Number Number Number Number Number Number Number Number Number Number Number Number Number Number Number Number Nu	history	history1	current	limit/base	method	6	SAMPLE IMAGES		00-
Add Number Add Nu									
Image: Contract of the service register of the	no imag	no image					Color	Mar22/24 -	Mar22/24
Image: Control of the service of th									
Water (KF) Water	no imag	no image					Bottom		0 - Base
Water (KF) Water							GRAPHS		30
Water (KF) Water (KF) Water (KF) Water (KF) Wiscosity @ 40°C Wiscosity @ 40°C			Particle Count				Ferrous Alloys		0
Water (KF) Water			Ī	491,520					0
Water (KF) Wood of the second			-	122,880			o thromium		
Water (KF) Water				00.700			6- Inckel		ar22/2.
Viscosity @ 40°C Viscosity &			†	30,720			2	9 H	M
Viscosity @ 40°C Viscosity @							0		
Viscosity @ 40°C Viscosity @				1.920 a. 1.920			22/24		Savara
Viscosity @ 40°C Viscosity @			1.	Mar des (pe					
Viscosity @ 40°C Viscosity @						s			
Viscosity @ 40°C Viscosity @			· ``	ja 120			8 - copper		
Viscosity @ 40°C Viscosity @							C tin		
Viscosity @ 40°C Viscosity @				30			4		
Viscosity @ 40°C Viscosity @			<b>Berevenal</b>				2	V.	0
Viscosity @ 40°C Viscosity @	$\mathbf{i}$		Į	*z 2			0	CC~-11	Mar22
Acid Number Acid Acid Number Acid Number				lar22//			lar22//		
Image: Second and Second	38µ 7	4μ 21μ		≥ 0					2
Image: State of the second			Acid Number	~0.50					Abnormal
Image: Second			Base	BH 0.40			50 - 9		8-
Abnormal  Image: Constraint of the second				.Ĕ.0.30			Base		6 - Base
Abnormal  Image: Constraint of the second				-e 0.20			Abnormal		4
Image: State of the state				P 0.10			40 + 0		Abnormal
Image: Second State  Image: Second State<			54	- 0.00					
Image: Second State  Image: Second State<			ar22/.	ar22//			ar22/i	4 C C	
Sample No.  : KCPA013756  Received  : 03 Apr 2024  8331 BRI    Lab Number  : 06138055  Tested  : 04 Apr 2024  JES    Unique Number  : 10962863  Diagnosed  : 05 Apr 2024 - Don Baldridge  U    Certificate L2367  Test Package  : IND 2 (Additional Tests: KF, PrtCount)  Contact: Service    To discuss this sample report, contact Customer Service at 1-800-237-1369.  : 03 Apr 2024  Contact: Service			Z	Z			N	C~-14	Mar2
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Certificate 12367    Test Package    : IND 2 (Additional Tests: KF, PrtCount)    Contact: Service      To discuss this sample report, contact Customer Service at 1-800-237-1369.    Contact: Service    Contact: Service	JESSUP,								
To discuss this sample report, contact Customer Service at 1-800-237-1369.	US 20	Contact: C	Baldridge	Apr 2024 - Don					
	. Service Mana	Contact: Se		1					
*- Denotes test methods that are outside of the ISO 17025 scope of accreditation.									

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