

## **OIL ANALYSIS REPORT**

Sample Rating Trend



[2403-0587] 8783623 (S/N 1503)

Compressor Filuid KAESER SIGMA (OEM) S-460 (--- GAL)

#### DIAGNOSIS

#### A Recommendation

We recommend you service the filters on this component. Resample at the next service interval to monitor.

#### Wear

Area

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		KC06184981		
Sample Date		Client Info		29 Apr 2024		
Machine Age	hrs	Client Info		2729		
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	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	۰ <1		
Lead	ppm	ASTM D5185m	>10	0		
		ASTM D5185m	>50	7		
Copper	ppm					
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	15		
Calcium	ppm	ASTM D5185m	2	<1		
Phosphorus	ppm	ASTM D5185m		4		
Zinc	ppm	ASTM D5185m		11		
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	1		
Sodium	ppm	ASTM D5185m		8		
Potassium	ppm	ASTM D5185m	>20	6		
Water	%	ASTM D6304	>0.05	0.009		
ppm Water	ppm	ASTM D6304	>500	90		
FLUID CLEANLIN	ESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647		13272		
Particles >6µm		ASTM D7647	>1300	<b>6</b> 5965		
Particles >14µm		ASTM D7647	>80	<b>170</b>		
Particles >21µm		ASTM D7647	>20	17		
Particles >38µm		ASTM D7647	>4	1		
Particles >71µm		ASTM D7647	>3	1		
Oil Cleanliness		ISO 4406 (c)	>/17/13	· 21/20/15		
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	0.4	0.37		



Built for a lifetime."

17 k 10 k

12000

8000 Water (ppm) 6000 4000

(B/H0.4

Ē0.30 - ag 0.20

Pi 0.10 0.00 nr79/74

12000

10000 Severe

800 Water (ppm) 6000

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Severe 10000

# **OIL ANALYSIS REPORT**

14k т	Particle Trend	VISUAL		method	limit/base	current
14K	4µm	White Metal	scalar	*Visual	NONE	NONE
10k -	εκεκεκεκε 6μm	Yellow Metal	scalar	*Visual	NONE	NONE
8k		Precipitate	scalar	*Visual	NONE	NONE
6k		Silt	scalar	*Visual	NONE	NONE
4k •		Debris	scalar	*Visual	NONE	NONE
2k Ok		Sand/Dirt	scalar	*Visual	NONE	NONE
	Apr/29/24 -	Appearance	scalar	*Visual	NORML	NORML
	Apr2	Odor	scalar	*Visual	NORML	NORML
	Water (KF)	Emulsified Water	scalar	*Visual	>0.05	NEG
<sup>2000</sup> T		Free Water	scalar	*Visual		NEG
0000-	Severe	FLUID PROPER	TIES	method	limit/base	current
3000 - 3000 -		Visc @ 40°C	cSt	ASTM D445	46	44.5
1000		SAMPLE IMAGE	S	method	limit/base	current
2000	Absensed		-			
0	Aboomal	ta Calar				
	Apr29/24	P2/62/14 Color				
).50 T	Acid Number					
0.40	Base	Bottom				
.30-		GRAPHS				
).20-		Ferrous Alloys				Particle Count
).10-		10 T			491,520	I
.00	₹ <b>1</b>	chromium			122,880	-
	Apr29/24	E 6 4			30,720	
		2-				
000 T	Water (KF)	24			7,680 (E	1:
100-	Severe	Apr29/24			Apr29/24 -	
000		Non-ferrous Meta	ls		Apr29/29/29/29/29/29/29/29/29/29/29/29/29/2	
000		<sup>10</sup> T			r of pa	
000-		8 - copper			120	Ī
000-	Abnormal				30	-
0		2				Bibrevernal
	Apr29/24					1
		Apr29/24			Apr29/24	1
52 <del>1</del>	Viscosity @ 40°C				de 0	4μ 6μ 1
50-	Abnormal	Viscosity @ 40°C			0.50	Acid Number
48-		50 Abnormal			(0.50 WHO 0.40 JBU 0.30 argume 0.20 W 0.10 V 0.10	Base
46	Base	() () () () () () () () () ()			 Ē 0.30	
44 - 42 -						
42 -	Abnormal	40 - 4			P 0.10	
38	1 1 1	35 4			0.00	
	Apr29/24	Apr29/24			Apr29/24	Apr29/24
	A,	, v				
		ry : WearCheck USA - 50	1 Madiso	on Ave., Carv	, NC 27513	т
ų	Sample N	<b>lo.</b> : KC06184981	Rece	ived : 20	) May 2024	
5			Teste		2 May 2024	han Unatar
		nber : 11036307 age : IND 2	Diagr	nosed : 22	May 2024 - Jonat	nan Hester
		port, contact Customer Serv	rice at 1-8	800-237-1369	9.	

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) T: F:

Apr29/24

Contact/Location: Service Manager - TOWCANKC

history1

history1

history1

no image

no image

history2

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history2

history2

no image

no image

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**TOWNLEY MFG & FOUNDRY** 10551 SE 110TH ST RD

Contact: Service Manager

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