

## **OIL ANALYSIS REPORT**

Sample Rating Trend



Machine Id

# 9109596 (S/N 1423)

#### Compressor Fluid KAESER SIGMA (OEM) S-460 (--- QTS)

#### 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	<b>NATION</b>	method	limit/base	current	history1	history2
Sample Number		Client Info		KCPA016566		
Sample Date		Client Info		10 May 2024		
Machine Age	hrs	Client Info		7905		
Oil Age	hrs	Client Info		8000		
Oil Changed		Client Info		N/A		
Sample Status				NORMAL		
		and the state	Line 11 /line none		la facta a su at	la facta an O
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		0		
Silver	ppm	ASTM D5185m	>2	<1		
Aluminum	ppm	ASTM D5185m	>10	0		
Lead	ppm	ASTM D5185m	>10	0		
Copper	ppm	ASTM D5185m	>50	2		
Tin	ppm	ASTM D5185m	>10	0		
Vanadium	ppm	ASTM D5185m		<1		
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		0		
Magnesium	ppm	ASTM D5185m	90	0		
Calcium	ppm	ASTM D5185m	2	0		
Phosphorus	ppm	ASTM D5185m		36		
Zinc	ppm	ASTM D5185m		6		
Sulfur	ppm	ASTM D5185m		481		
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	18		
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647		1579		
Particles >6µm		ASTM D7647	>1300	398		
Particles >14µm		ASTM D7647	>80	11		
Particles >21µm		ASTM D7647	>20	2		
Particles >38µm		ASTM D7647	>4	1		
Particles >71µm		ASTM D7647	>3	1		
Oil Cleanliness		ISO 4406 (c)	>/17/13	18/16/11		
FLUID DEGRADA		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	0.4	0.15		



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Water (KF)			VISUAL		method	limit/base	current
Severe			White Metal	scalar	*Visual	NONE	NONE
			Yellow Metal	scalar	*Visual	NONE	NONE
			Precipitate	scalar	*Visual	NONE	NONE
			Silt	scalar	*Visual	NONE	NONE
			Debris	scalar	*Visual	NONE	NONE
Abnormal			Sand/Dirt	scalar	*Visual	NONE	NONE
L.j		124	Appearance	scalar	*Visual	NORML	NORML
May10/24		May10/24	Odor	scalar	*Visual	NORML	NORML
2		2	Emulsified Water	scalar	*Visual	>0.05	NEG
Particle Trend			Free Water	scalar	*Visual	>0.05	NEG
4μm				_	visuai		NEG
14μm			FLUID PROPE	RTIES	method	limit/base	current
			Visc @ 40°C	cSt	ASTM D445	46	46.8
			SAMPLE IMAG	ES	method	limit/base	current
May10/24 -		May10/24 -	Color				-
May		May					
Water (KF)							
Severe			Bottom				
			GRAPHS				
			Ferrous Alloys				Particle Cou
			10			491,520	I
Abnormal			8 - Iron			122,880	
May10/24		Verut	E 6 -				
May			1			30,720	1
Viscosity @ 40°C	2		2			7,680	
Abnormal			0/24				
•			May10/24			May10/24 s (per 1 ml	
Rana			Non-ferrous Me	tals		- sa 	
	************************	*******	<sup>10</sup> T			May10,24	
			8 - copper			jag 120	
Abnormal			E 6-			30	
			<sup>₽</sup> 4.				**********
0/24		Veru	2				<b>Bisreve</b> mal
May10/24		1	24 24		******	54	-
			May10/24			May10/24	
Particle Trend			≥ Viscosity @ 40°	C		≥ 0	¥μ 6μ
4μm			55 T	<u> </u>		0.50	Acid Numbe
			50 - Abnormal			0.50 Hoy 0.40	Base
			D Base			E 0 30	
			(C, O) 45 ↓ 45 Abnormal			W 0.30 W 0.20 W 0.10 W 0.00 W 0.00 W 0.00	
			40 - Abnormal			2 0.20 2 0.10	
			35			0.00	
-		5	0/24				with the second s
May 1 0/24		0 U U	May10/24			May10/24	May10/2
W		4					
1.629-175 A (B)	d	Laboratory	: WearCheck USA -				
	ANAB	Sample No.	: KCPA016566	Rece		6 May 2024	
		Lab Number		Teste		) May 2024	Detaile
24	0	Unique Number				May 2024 - Don	Baldridge
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				at 1-C		· ·	

**OWENS INDUSTRIES** 7815 S 6TH ST OAK CREEK, WI US 53154 Contact: Service Manager

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Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

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Contact/Location: Service Manager - OWEOAK

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