

## **OIL ANALYSIS REPORT**



Machine Id

# KAESER 7393040 (S/N 1501)

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

#### Recommendation

Resample at the next service interval to monitor.

#### Wear

All component wear rates are normal.

#### Contamination

There is no indication of any contamination in the oil. The amount and size of particulates present in the system are acceptable.

### 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		KC128640	KC95279	
Sample Date		Client Info		03 Jul 2024	25 Feb 2022	
Machine Age	hrs	Client Info		4485	917	
Oil Age	hrs	Client Info		3568	917	
Oil Changed		Client Info		Changed	Changed	
Sample Status				NORMAL	ATTENTION	
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>50	<1	<1	
Chromium	ppm	ASTM D5185m	>10	0	0	
Nickel	ppm	ASTM D5185m	>3	0	0	
Titanium	ppm	ASTM D5185m	>3	0	0	
Silver	ppm	ASTM D5185m	>2	0	<1	
Aluminum	ppm	ASTM D5185m	>10	0	<1	
Lead	ppm	ASTM D5185m	>10	0	<1	
Copper	ppm	ASTM D5185m	>50	4	2	
Tin	ppm	ASTM D5185m	>10	0	0	
Antimony	ppm	ASTM D5185m			0	
Vanadium	ppm	ASTM D5185m		0	0	
Cadmium	ppm	ASTM D5185m		0	0	
ADDITIVES	le le	method	limit/base	current	history1	history2
Boron	nom	ASTM D5185m	IIIII/Dasc	0	0	
Barium	ppm	ASTM D5185m	00	0	4	
	ppm	ASTM D5185m	90	0	4	
Molybdenum	ppm	ASTM D5185m		0	0	
Manganese Magnesium	ppm	ASTM D5185m	90	34	67	
Calcium	ppm	ASTM D5185m		0		
	ppm	ASTM D5185m	2	0	<1	
Phosphorus	ppm			0	8	
Zinc	ppm	ASTM D5185m		-		
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	0	<1	
Sodium	ppm	ASTM D5185m		4	10	
Potassium	ppm	ASTM D5185m	>20	4	21	
Water	%	ASTM D6304	>0.05	0.021	0.018	
ppm Water	ppm	ASTM D6304	>500	213	180.0	
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647		1835	4909	
Particles >6µm		ASTM D7647	>1300	627	2226	
Particles >14µm		ASTM D7647	>80	23	72	
Particles >21µm		ASTM D7647	>20	5	13	
Particles >38µm		ASTM D7647	>4	0	1	
Particles >71µm		ASTM D7647	>3	0	0	
Oil Cleanliness		ISO 4406 (c)	>/17/13	18/16/12	18/13	
FLUID DEGRADA		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	0.4	0.34	0.33	

Contact/Location: Service Manager - KEMAKRKC Page 1 of 2



# **OIL ANALYSIS REPORT**

Water (KF)	VISUAL		method	limit/base	current	history1	history2
10000 - Severe	White Metal	scalar	*Visual	NONE	NONE	NONE	
2000	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
0000 A at a company of the company o	Precipitate	scalar	*Visual	NONE	NONE	NONE	
₹ ≥ 4000-	Silt	scalar	*Visual	NONE	NONE	NONE	
2000 -	Debris	scalar	*Visual	NONE	NONE	NONE	
Abnormal	Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	
465/22	Appearance	scalar	*Visual	NORML	NORML	NORML	
Feb.25/22	Odor	scalar	*Visual	NORML	NORML	NORML	
	Emulsified Water	scalar	*Visual	>0.05	NEG	NEG	
Particle Trend	Free Water	scalar	*Visual	, 0.00	NEG	NEG	
Ξ 4μm   6μm 4μm	FLUID PROPER		method	limit/base	current	history1	history2
and the second s	Visc @ 40°C	cSt	ASTM D445	46	43.2	44.2	
	SAMPLE IMAGE	S	method	limit/base	current	history1	history2
Juli3.24	Color						no image
Water (KF)	Bottom						no image
E 0000 d) 6000 term 2000	GRAPHS						
≥ 4000	Ferrous Alloys				Particle Count		
2000 -	<sup>10</sup> I			491,520	I		T <sup>26</sup>
Abnomal 0	8 - chromium			122,880			-24
Feb25/22	e 6						
a -	2			30,720	Ť		-22
Viscosity @ 40°C				7,680	· · ·		-20
52 Abnormal	5/22			Jul3/24. per 1 ml)			+20 ISO 4406:1999 Cleanliness Code +16 -114 -114 -114 -114 -114 -114 -112 -112
50 +	Feb 25/22			jin ja 1,920	N		+18 06:19
48	Non-ferrous Meta	als		광 480	1		-16 0
G 46 - Base	<sup>10</sup>			r of b	1.		anin
<sup>3</sup> <sup>44</sup> 42	8 - copper			+5/5[lm   1.920 480 120			+14 gg
40 Abnormal	e 6			E 30			-12
38	4						
F6025/22	2			0	<b>Seven</b> emal		+10
Feb.	122			Jul3/24	+		-8
Particle Trend	Feb25/22			Jul		```	
	Viscosity @ 40°C			0	ہوں۔ Acid Number	14μ 21μ	38µ 71µ
Ξ 4k+	55 T			-0.50	T		
E 4k starting by m starting by m 14µm 14µm 14µm 14µm 14µm	50 - Abnormal			(),0.50 Hy 0.40 Ly 0.30	Base	*****	
2 ACC	(0,0) 45 - Base Abnormal			Ē 0.30			
	Abnormal						
	+0-			- Borro	-		
0k	354				22		- 24
Fàl25/22 н. то оли	Feb 25/22			Jul3/24	Feb 25/22		Jul3/24
Febi	LL.				LL.		
Laboratory Sample No. Lab Number Unique Number Certificate L2367 To discuss this sample report * - Denotes test methods that Statements of conformity to s	: 11127993 : IND 2 t, contact Customer Serv are outside of the ISO	Recei Teste Diagr vice at 1-8 17025 sco	ived : 17 id : 18 nosed : 19 800-237-1369 ope of accred	7 Jul 2024 3 Jul 2024 Jul 2024 - Don 9. <i>litation</i> .	Baldridge	Contact: Se	BODY SHOP ATERLOO RD AKRON, OH US 44319 rvice Manager T: F:
Statements of conformity to s					rule (JCGM 106	:2012)	

Contact/Location: Service Manager - KEMAKRKC