

OIL ANALYSIS REPORT

Sample Rating Trend



Machine Id

KAESER 8041334

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

DIAGNOSIS

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		KCPA018235		
Sample Date		Client Info		13 Jun 2024		
Machine Age	hrs	Client Info		6294		
Oil Age	hrs	Client Info		3000		
Oil Changed		Client Info		Changed		
Sample Status				NORMAL		
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>50	0		
Chromium	ppm	ASTM D5185m	>10	<1		
Nickel	ppm	ASTM D5185m	>3	0		
Titanium	ppm	ASTM D5185m	>3	<1		
Silver	ppm	ASTM D5185m	>2	<1		
Aluminum	ppm	ASTM D5185m	>10	4		
Lead	ppm	ASTM D5185m	>10	0		
Copper	ppm		>50	8		
Tin	ppm	ASTM D5185m	>10	ء <1		
Vanadium	ppm	ASTM D5185m		<1		
Cadmium	ppm	ASTM D5185m		<1		
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	0		
Barium	ppm	ASTM D5185m	90	0		
Molybdenum	ppm	ASTM D5185m	0	<1		
Manganese	ppm	ASTM D5185m		0		
Magnesium	ppm	ASTM D5185m	100	1		
Calcium	ppm	ASTM D5185m	0	0		
Phosphorus	ppm	ASTM D5185m	0	0		
Zinc	ppm	ASTM D5185m	0	0		
Sulfur	ppm	ASTM D5185m	23500	16146		
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	0		
Sodium	ppm	ASTM D5185m		0		
Potassium	ppm	ASTM D5185m	>20	1		
Water	%	ASTM D6304	>0.05	0.010		
ppm Water	ppm	ASTM D6304	>500	102		
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647		1343		
Particles >6µm		ASTM D7647	>1300	504		
Particles >14µm		ASTM D7647	>80	10		
Particles >21µm		ASTM D7647	>20	1		
Particles >38µm		ASTM D7647	>4	0		
Particles >71µm		ASTM D7647	>3	0		
Oil Cleanliness		ISO 4406 (c)	>/17/13	18/16/10		
FLUID DEGRADA		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	1.0	0.39		



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Water (KF)	VISUAL		method	limit/base	current	history1	history2
10000 - Severe	White Metal	scalar	*Visual	NONE	NONE		
	Yellow Metal	scalar	*Visual	NONE	NONE		
e 000	Precipitate	scalar	*Visual	NONE	NONE		
an e soos 4000	Silt	scalar	*Visual	NONE	NONE		
2000 -	Debris	scalar	*Visual	NONE	NONE		
Abnormal	Sand/Dirt	scalar	*Visual	NONE	NONE		
3/24		scalar	*Visual	NORML	NORML		
Jun 13/24	Appearance Odor	scalar	*Visual	NORML	NORML		
Deutriele Tueud	Emulsified Water	r scalar	*Visual	>0.05	NEG		
Particle Trend	Free Water	scalar	*Visual		NEG		
$\widehat{\overline{E}}^{1k}$ = $\frac{4\mu m}{6\mu m}$	FLUID PROPE	ERTIES	method	limit/base	current	history1	history2
1 1k+ approx 14μm 10 1k+ 10 1k+	Visc @ 40°C	cSt	ASTM D445	45	44.5		
ф 1k - b 1k -	SAMPLE IMAG	GES	method	limit/base	current	history1	history2
2 _{0k}							
Jun13/24	Color					no image	no image
Water (KF)	Bottom					no image	no image
6000	GRAPHS						
4000-	Ferrous Alloys				Particle Count		
2000 -	10 T			491,520	I		T ²⁶
Abnormal	8 - Iron			122,880	-		+24
Jun 13/24	E 6				:		
h	4			30,720	-		-22
Viscosity @ 40°C				7,680	· ·		20
60 T	Jun 13/24			3/24	N.		-20 ISO 4406-1999 Cleanfiness C
55 - Severe	Jun J			Jun 13/24- 1'66 (per 1 ml) 88	× · ·		-10 06 19
G 50 Abnormal	Non-ferrous Me	etals		:12 480			-16 Ce
(2) 50 - 0 (2) - 0 (3) - 0 (4) - 0 (5) - 0				jo jo ja 120			114 0
Abnormal	8 - Internet lead			quint		N	12 00
40 - J Severe				30		\	-12 0
35	2				Sever mal		10
Jun 13/24							
	יי Jun13/24			Jun 13/24	•		-8
Particle Trend				nnr (ALL BU	14μ 21μ	38µ 71µ
1k 4µm	Viscosity @ 40	°C			Acid Number	1114 2114	30µ 11µ
Image: Constraint of the second sec	55 Severe			() 0.96 0.96	Basermal		
19 1k				Q 0.96			
та та 1k	G 50 - Abnormal 60 - 50 - Base 8 45 - Abnormal						
	40-			0.48 M Picore V 0.00			
e _{ok}	35 Severe						
0k	haret.			Jun 13/24	Jun 13/24		Jun13/24
Jun 13/2 [,]	î nul			Junl	լոսլ		լոոլ
Certificate L2367 Te To discuss this sa	aboratory : WearCheck USA - ample No. : KCPA018235 ab Number : 06240350 nique Number : 11129184 est Package : IND 2 (Additional ample report, contact Customer S nethods that are outside of the ISO	Rece Teste Diagr Tests: KF, F Service at 1-8	ived : 18 ed : 19 nosed : 19 PrtCount) 800-237-136	3 Jul 2024 9 Jul 2024 9 Jul 2024 - Doi 9.	ug Bogart	6733 CONSO S/	D-YOUNG CO LIDATED WAY AN DIEGO, CA US 92121 ervice Manager T:
	nformity to specifications are base				rule (JCGM 106	:2012)	F:

Contact/Location: Service Manager - CEDSANCAL