

## **OIL ANALYSIS REPORT**

Sample Rating Trend



Machine Id

# KAESER 8394683 (S/N 1675)

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

#### DIAGNOSIS

#### A Recommendation

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 high amount of particulates present in the oil.

#### Fluid Condition

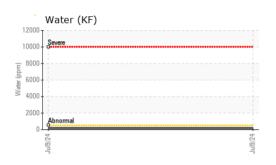
The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

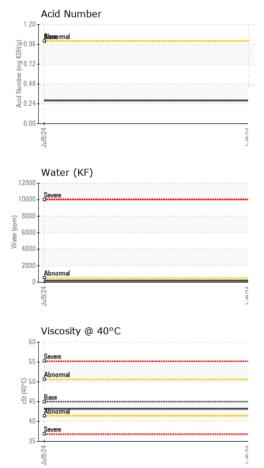
SAMPLE INFORM	ATION	method	limit/base	current	history1	history2
Sample Number		Client Info		KCPA020616		
Sample Date		Client Info		09 Jul 2024		
Machine Age	hrs	Client Info		2931		
Oil Age	hrs	Client Info		2931		
Oil Changed		Client Info		Changed		
Sample Status				ABNORMAL		
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>50	<1		
Chromium	ppm	ASTM D5185m	>10	0		
Nickel	ppm	ASTM D5185m	>3	0		
Titanium	ppm	ASTM D5185m	>3	0		
Silver	ppm	ASTM D5185m	>2	0		
Aluminum	ppm	ASTM D5185m	>10	0		
Lead	ppm	ASTM D5185m	>10	0		
Copper	ppm	ASTM D5185m	>50	4		
Tin	ppm	ASTM D5185m	>10	0		
Vanadium	ppm	ASTM D5185m		0		
Cadmium	ppm	ASTM D5185m		0		
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	0		
Barium	ppm	ASTM D5185m	90	0		
Molybdenum	ppm	ASTM D5185m	0	0		
Manganese	ppm	ASTM D5185m		<1		
Magnesium	ppm	ASTM D5185m	100	49		
Calcium	ppm	ASTM D5185m	0	1		
Phosphorus	ppm	ASTM D5185m	0	4		
Zinc	ppm	ASTM D5185m	0	11		
Sulfur	ppm	ASTM D5185m	23500	19806		
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	<1		
Sodium	ppm	ASTM D5185m		13		
Potassium	ppm	ASTM D5185m	>20	8		
Water	%	ASTM D6304	>0.05	0.016		
ppm Water	ppm	ASTM D6304	>500	168		
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647		28022		
Particles >6µm		ASTM D7647	>1300	<u> </u>		
Particles >14µm		ASTM D7647	>80	<b>A</b> 1181		
Particles >21µm		ASTM D7647	>20	<u> </u>		
Particles >38µm		ASTM D7647	>4	<u> </u>		
Particles >71µm		ASTM D7647	>3	0		
Oil Cleanliness		ISO 4406 (c)	>/17/13	<b>A</b> 22/21/17		
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	1.0	0.28		

### - 2 COMPRESSORS

Built for a lifetime."

#### 🔺 Particle Trend 30 - 25 1 μm number of particles (1 n 201 10k 2k 14µm 51 0 Jul9/24 Jul9/24





Certificate L2367

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		method	limit/base	current	history1	history
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		
Sand/Dirt	scalar	*Visual	NONE	NONE		
Appearance	scalar		NORML	NORML		
			>0.05	-		
Free Water	scalar	*Visual		NEG		
FLUID PROPER	TIES	method	limit/base	current	history1	history
Visc @ 40°C	cSt	ASTM D445	45	43.2		
SAMPLE IMAGE	S	method	limit/base	current	history1	history
Color					no image	no imag
Bottom					no image	no imag
Dottom					no inage	no imag
CRADUC						
				Particle Count		
o - chromium			122,880	+		
			30,720			
0						
u19/24			er 1 m 1,920			
			cles (p			
Non-ferrous Meta	IS		180 Here 480			
8 - copper				-		
Ctip						<b>`</b>
						1
				<b>Bioreve</b> mal		/
		~~~~	6/24			
			7		1	
Viscosity @ 40°C				Acid Number	14µ 21µ	38μ 7
Severe			⊊ <sup>1.20</sup>	Absermal		
			<b>支</b> 0.96	1		
E Base			는 U.72 편 0.48			
40+			U.24			
35				**		
7/10/2 <sup>4</sup>			Jul9/24	Jul9/2		
			~			
WearCheck USA - 50	)1 Madier	n Ave Carv	NC 27513			RESTORAT
KCPA020616	Rece	IVed :15	5 Jul 2024		1001 WA	SHINGTON
	Yellow Metal Precipitate Silt Debris Sand/Dirt Appearance Odor Emulsified Water Free Water FLUID PROPER Visc @ 40°C SAMPLE IMAGE Color Bottom GRAPHS Ferrous Alloys 10 4 2 0 5 5 10 10 10 10 10 10 10 10 10 10	Yellow Metal scalar Precipitate scalar Silt scalar Debris scalar Sand/Dirt scalar Appearance scalar Odor scalar Emulsified Water scalar Free Water scalar FLUID PROPERTIES Visc @ 40°C cSt SAMPLE IMAGES Color Bottom GRAPHS Ferrous Alloys 1 Con-ferrous Metals 1 Viscosity @ 40°C Viscosity @ 40°C	Yellow Metal  scalar  *Visual    Precipitate  scalar  *Visual    Silt  scalar  *Visual    Debris  scalar  *Visual    Sand/Dirt  scalar  *Visual    Appearance  scalar  *Visual    Odor  scalar  *Visual    Emulsified Water  scalar  *Visual    Free Water  scalar  *Visual    SAMPLE IMAGES  method    Color  GRAPHS    Ferrous Alloys	Yellow Metal  scalar  *Visual  NONE    Precipitate  scalar  *Visual  NONE    Silt  scalar  *Visual  NONE    Debris  scalar  *Visual  NONE    Sand/Dirt  scalar  *Visual  NONE    Appearance  scalar  *Visual  NORML    Odor  scalar  *Visual  NORML    Odor  scalar  *Visual  NORML    Odor  scalar  *Visual  NORML    Emulsified Water  scalar  *Visual  >0.05    Free Water  scalar  *Visual  >0.05    Fereow 40°C  cSt  ASTM D445  45    SAMPLE IMAGES  method  limit/base    Color  Imutotage  Imutotage  Imutotage    GRAPHS  Ferrous Alloys  Imutotage  Imutotage  Imutotage    Viscosity @ 40°C  Imutotage  Imutotage  Imutotage  Imutotage    Imutotage  Imutotage  Imutotage  Imutotage  Imutotage    Imutotage  Imutotage  Imutotage	Yellow Metal  scalar  'Visual  NONE  NONE    Precipitate  scalar  'Visual  NONE  NONE    Silt  scalar  'Visual  NONE  NONE    Debris  scalar  'Visual  NONE  NONE    Sand/Dirt  scalar  'Visual  NONE  NONE    Appearance  scalar  'Visual  NORML  NORML    Odor  scalar  'Visual  NORML  NORML    Emulsified Water  scalar  'Visual  NOR  NEG    Feree Water  scalar  'Visual  Imit/base  current    Visc@ 40°C  cSt  ASTM D445  45  43.2    GRAPHS  Ferrous Alloys  Imit/base  current    Viscosity @ 40°C  Imit  Imit  Imit	Yellow Metal  scalar  *Visual  NONE     Precipitate  scalar  *Visual  NONE  NONE     Silt  scalar  *Visual  NONE  NONE     Sand/Dirt  scalar  *Visual  NONE  NONE     Sand/Dirt  scalar  *Visual  NONE  NONE     Appearance  scalar  *Visual  NORML  NORML     Odor  scalar  *Visual  NORML  NORML     Odor  scalar  *Visual  NORML  NORML     Color  scalar  *Visual  NORML  NORML     Free Water  scalar  *Visual  NORML  NORML     SAMPLE IMAGES  method  imit/base  current  history1    Visc@ 40°C  cSt  ASTM D445  45  43.2     Bottom  on  image  no  image  no  image    odd  on  on  on  image  image

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)

Report Id: BIGELL [WUSCAR] 06236831 (Generated: 07/17/2024 14:43:22) Rev: 1

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