

### **OIL ANALYSIS REPORT**

Sample Rating Trend

ISO

Machine Id

# 8367464 (S/N 1252)

### Component Compressor Fluid KAESER SIGMA (OEM) M-460 (--- QTS)

#### Recommendation

Oil and filter change at the time of sampling has been noted. No corrective action is recommended at this time. Resample at the next service interval to monitor.

#### Wear

All component wear rates are normal.

#### Contamination

There is a moderate 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.

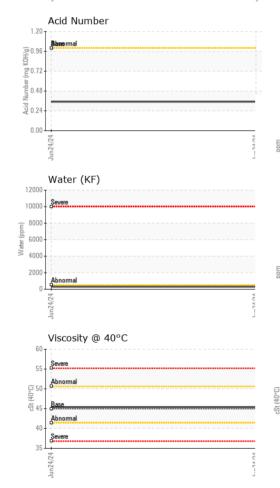
SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		KCPA017358		
Sample Date		Client Info		24 Jun 2024		
Machine Age	hrs	Client Info		14552		
Oil Age	hrs	Client Info		4193		
Oil Changed		Client Info		Changed		
Sample Status				ATTENTION		
WEAR METALS		method	limit/base	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	<1		
Lead	ppm	ASTM D5185m	>10	0		
Copper	ppm	ASTM D5185m	>50	14		
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		0		
Magnesium	ppm	ASTM D5185m	100	71		
Calcium	ppm	ASTM D5185m	0	0		
Phosphorus	ppm	ASTM D5185m	0	0		
Zinc	ppm	ASTM D5185m	0	91		
Sulfur	ppm	ASTM D5185m	23500	22237		
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	1		
Sodium	ppm	ASTM D5185m		14		
Potassium	ppm	ASTM D5185m	>20	9		
Water	%	ASTM D6304	>0.05	0.029		
ppm Water	ppm	ASTM D6304	>500	299		
FLUID CLEANLIN	ESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647		4426		
Particles >6µm		ASTM D7647	>1300	<mark> </mark> 1422		
Particles >14µm		ASTM D7647	>80	<mark> </mark> 102		
Particles >21µm		ASTM D7647	>20	<mark> </mark> 27		
Particles >38µm		ASTM D7647	>4	2		
Particles >71µm		ASTM D7647	>3	1		
Oil Cleanliness		ISO 4406 (c)	>/17/13	<mark>  </mark> 19/18/14		
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	1.0	0.35		



Built for a lifetime."

### Particle Trend Ē -14µm r of particles (1 r SS 38 0 10/4/74 Water (KF)





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VISUAL		method	limit/base	current	history1	history2
/hite Metal	scalar	*Visual	NONE	NONE		
ellow Metal	scalar	*Visual	NONE	NONE		
recipitate	scalar	*Visual	NONE	NONE		
lt	scalar	*Visual	NONE	NONE		
ebris	scalar	*Visual	NONE	NONE		
and/Dirt	scalar	*Visual	NONE	NONE		
ppearance	scalar	*Visual	NORML	NORML		
dor	scalar	*Visual	NORML	NORML		
mulsified Water	scalar	*Visual	>0.05	NEG		
ree Water	scalar	*Visual		NEG		
		and he al	line it //s a s a		late to mid	la i a ta mu O
FLUID PROPER		method	limit/base	current	history1	history2
isc @ 40°C	cSt	ASTM D445	45	45.4		
SAMPLE IMAGE	S	method	limit/base	current	history1	history2
olor					no image	no image
					mage	intage
ottom				62	no image	no image
GRAPHS						
Ferrous Alloys				Particle Count		
			491,520	T	1 1	T <sup>26</sup>
iron chromium			122,880			-24
nickel			122,000			124
1			30,720			-22
			7,680	•		-20
24		*********************				20
Jun 24/24			Jun24/24 \$ (per 1 ml			-18
⊸ Non-ferrous Meta	de		42/42/12 1200 1200 1200 1200 1200 1200 1200		<b>N</b> 100	-18 -16 -14
			of par			10
copper			ja 120	+		-14
tin			2 30			+12
			8	<b>Bioreve</b> mal		10
24		**********************	542	-		
Jun24/24			Jun24/24			
			- Q	μ 6μ	14µ 21µ	38µ 71µ
Viscosity @ 40°C				Acid Number		
Severe			(B <sup>1.20</sup>	Basermal		
Abnormal			20.96 20.75	I		
Base			5 U.72			
Abnormal			(B1.20 HOX 0.96 Line 1.20 HOX 0.96 Line 1.20 HOX 0.96 Line 1.20 Line 1.20 Li			
Severe						
Jun 24/24			Jun24/24	Jun 24/24		<i>bCbCm</i>
Jun			Juni	Jun		
arCheck USA - 50					ENTOURAGE	
PA017358	Recei		3 Jul 2024			
238391 127225	Teste	-	' Jul 2024 Jul 2024 - Don	Baldridae	WEST	WINDSOR, N US 0855

- Test Package : IND 2 (Additional Tests: KF, PrtCount) Certificate 12367 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)

Laboratory Sample No. Lab Number **Unique Number** 

Т:

F:

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