

### **OIL ANALYSIS REPORT**

Sample Rating Trend

ISO

Machine Id

# KAESER SM 10 5954225 (S/N 2015)

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

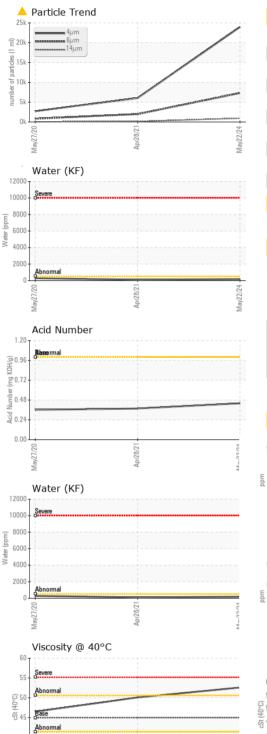
The AN level is acceptable for this fluid. The condition of the oil is acceptable for the time in service.

		ma	γ2020	Apr2021 May20	16.7		
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2	
Sample Number		Client Info		KCPA018020	KCP33685	KCP24347	
Sample Date		Client Info		22 May 2024	28 Apr 2021	27 May 2020	
Machine Age	hrs	Client Info		16154	9220	5697	
Oil Age	hrs	Client Info		0	3000	805	
Oil Changed		Client Info		Changed	Changed	Changed	
Sample Status				ABNORMAL	ATTENTION	NORMAL	
WEAR METALS		method	limit/base	current	history1	history2	
Iron	ppm	ASTM D5185m	>50	<1	0	<1	
Chromium	ppm	ASTM D5185m	>10	<1	0	0	
Nickel	ppm	ASTM D5185m	>3	0	0	0	
Titanium	ppm	ASTM D5185m	>3	<1	0	0	
Silver	ppm	ASTM D5185m	>2	0	<1	<1	
Aluminum	ppm	ASTM D5185m	>10	2	0	<1	
Lead	ppm	ASTM D5185m	>10	<1	0	<1	
Copper	ppm	ASTM D5185m	>50	12	13	3	
Tin	ppm	ASTM D5185m	>10	<1	<1	<1	
Antimony	ppm	ASTM D5185m			0	0	
Vanadium	ppm	ASTM D5185m		0	0	0	
Cadmium	ppm	ASTM D5185m		0	0	0	
ADDITIVES		method	limit/base	current	history1	history2	
Boron	ppm	ASTM D5185m	0	0	<1	<1	
Barium	ppm	ASTM D5185m	90	4	0	<1	
Molybdenum	ppm	ASTM D5185m	0	<1	0	0	
Manganese	ppm	ASTM D5185m		0	0	<1	
Magnesium	ppm	ASTM D5185m	100	21	4	54	
Calcium	ppm	ASTM D5185m	0	<1	0	1	
Phosphorus	ppm	ASTM D5185m	0	2	6	4	
Zinc	ppm	ASTM D5185m	0	75	17	30	
Sulfur	ppm	ASTM D5185m		26209	17612	15921	
CONTAMINANTS	S	method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185m	>25	6	0	<1	
Sodium	ppm	ASTM D5185m		3	0	17	
Potassium	ppm	ASTM D5185m	>20	2	0	3	
Water	%	ASTM D6304		0.018	0.011	0.028	
ppm Water	ppm	ASTM D6304	>500	182	111.2	280.3	
FLUID CLEANLIN	NESS	method	limit/base	current	history1	history2	
Particles >4µm		ASTM D7647		23948	6039	2714	
Particles >6µm		ASTM D7647	>1300	<u> </u>	981	841	
Particles >14µm		ASTM D7647	>80	<u> </u>	137	50	
Particles >21µm		ASTM D7647	>20	<u> </u>	46	12	
Particles >38µm		ASTM D7647	>4	<b>4</b> 35	3	2	
Particles >71μm		ASTM D7647	>3	1	0	0	
Oil Cleanliness		ISO 4406 (c)	>/17/13	<b>A</b> 22/20/17	18/14	17/13	
FLUID DEGRAD	ATION	method	limit/base	current	history1	history2	
Acid Number (AN)	mg KOH/g	ASTM D8045	1.0	0.44	0.377	0.361	
36:10) Rev: 1	5 5				Contact/Location		

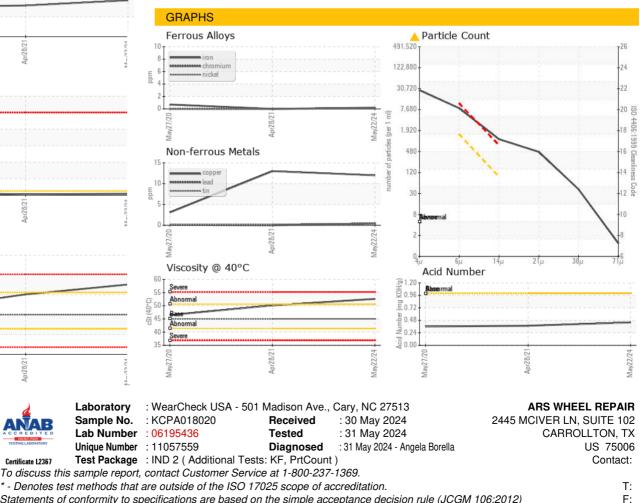
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VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	VLITE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.05	NEG	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG
FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	45	52.6	50.1	46.5
SAMPLE IMAGES		method	limit/base	current	history1	history2
Color						
Bottom						



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

Certificate 12367

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Contact/Location: ? ? - ARSCAR Page 2 of 2