

# **OIL ANALYSIS REPORT**

Machine Id KAESER ASD 25T 5455987 (S/N 1061)

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

## DIAGNOSIS

#### Recommendation

The filter change at the time of sampling has been noted. We were unable to perform a particle count due to a high concentration of particles present in this sample. We advise that you stop the unit and follow the water drain-off procedure for this component. We recommend an early resample in 500 hours to monitor this condition.

#### A Wear

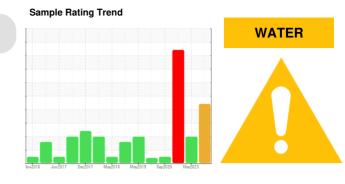
The aluminum level is abnormal. The copper level is abnormal.

## Contamination

There is a moderate amount of visible silt present in the sample. Moderate concentration of visible dirt/debris present in the oil. There is a light concentration of water present in the oil.

#### Fluid Condition

The AN level is acceptable for this fluid.



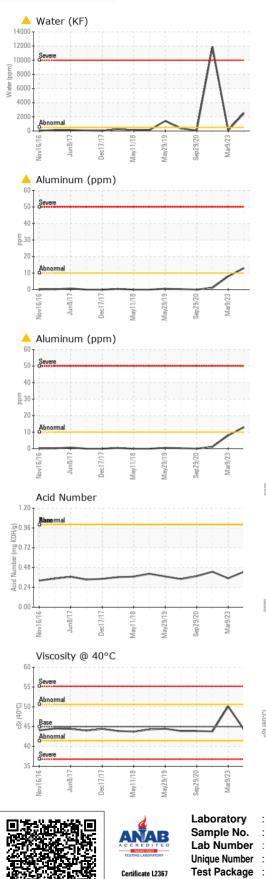
SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		KCPA013614	KCPA000920	KCP41136
Sample Date		Client Info		14 Mar 2024	09 Mar 2023	02 Mar 2022
Machine Age	hrs	Client Info		35252	31964	28281
Oil Age	hrs	Client Info		0	0	1952
Oil Changed		Client Info		Not Changd	N/A	Not Changd
Sample Status				ABNORMAL	ABNORMAL	SEVERE
WEAR METALS		method	limit/base	current	history1	history2
ron	ppm	ASTM D5185m	>50	5	3	2
Chromium	ppm	ASTM D5185m	>10	0	0	0
Nickel	ppm	ASTM D5185m	>3	<1	<1	0
Titanium	ppm	ASTM D5185m	>3	0	0	0
Silver	ppm	ASTM D5185m	>2	0	0	<1
Aluminum	ppm	ASTM D5185m	>10	▲ 13	8	1
Lead	ppm	ASTM D5185m	>10	<1	0	0
Copper	ppm	ASTM D5185m	>50	▲ 76	▲ 79	39
Tin	ppm	ASTM D5185m	>10	<1	0	0
Antimony	ppm	ASTM D5185m				
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
	ρρπ				-	
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	0	0	2
Barium	ppm	ASTM D5185m	90	0	0	0
Molybdenum	ppm	ASTM D5185m	0	0	0	0
Manganese	ppm	ASTM D5185m		<1	<1	0
Magnesium	ppm	ASTM D5185m	100	2	<1	0
Calcium	ppm	ASTM D5185m	0	<1	0	0
Phosphorus	ppm	ASTM D5185m	0	<1	14	1
Zinc	ppm	ASTM D5185m	0	20	9	91
Sulfur	ppm	ASTM D5185m	23500	19353	15742	15170
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	<1	1	<1
Sodium	ppm	ASTM D5185m		4	0	0
Potassium	ppm	ASTM D5185m	>20	5	2	0
Water	%	ASTM D6304	>0.05	<b>A</b> 0.251	0.011	<b>1</b> .19
ppm Water	ppm	ASTM D6304	>500	<b>A</b> 2510	114.7	▲ 11900
FLUID CLEANLIN	ESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647			214689	
Particles >6µm		ASTM D7647	>1300		▲ 27508	
Particles >14µm		ASTM D7647	>80		▲ 229	
Particles >21µm		ASTM D7647			19	
Particles >38µm		ASTM D7647	>4		1	
Particles >71µm		ASTM D7647			0	
Oil Cleanliness		ISO 4406 (c)	>/17/13		▲ 25/22/15	
FLUID DEGRADA		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	1.0	0.43	0.35	0.43

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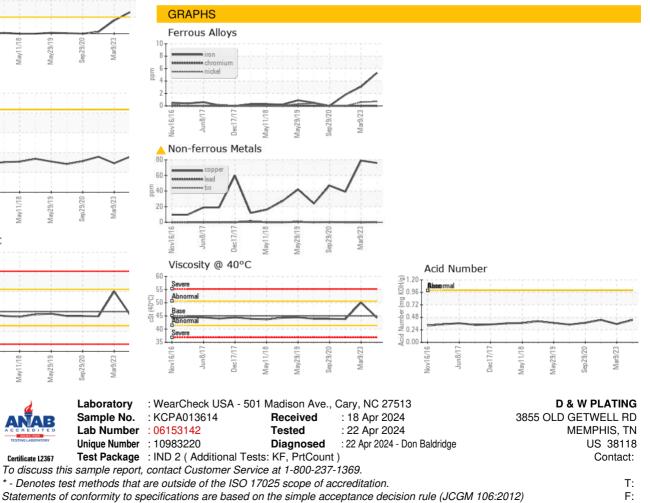
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VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	LIGHT	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	A MODER	NONE	NONE
Debris	scalar	*Visual	NONE	🔺 MODER	LIGHT	🔺 MODER
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	<b>6.2%</b>	NEG	▲ 0.2%
Free Water	scalar	*Visual		NEG	NEG	<b>1</b> .0
FLUID PROPERT	IES	method	limit/base	current	history1	history2
Visc @ 40°C	. 01	ASTM D445	45	44.3	50.1	43.8
	cSt	A01101 D440	-10		00.1	40.0
SAMPLE IMAGES		method	limit/base	current	history1	history2
-				current		



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Contact/Location: ? ? - DWPMEM