

OIL ANALYSIS REPORT

SAMPLE INCODMATION



Machine Id

KAESER 4880053

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

DIAGNOSIS

Recommendation

Oil and filter change at the time of sampling has been noted. We recommend an early resample in 500 hours to monitor this condition.

Wear

All component wear rates are normal.

Contamination

There is a high amount of particulates 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. The condition of the oil is suitable for further service.

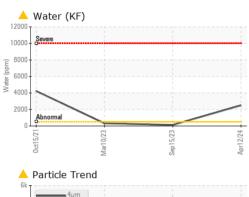
SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		KCPA016383	KCP40029D	KCP45865
Sample Date		Client Info		12 Apr 2024	15 Sep 2023	10 Mar 2023
Machine Age	hrs	Client Info		46285	42605	39882
Oil Age	hrs	Client Info		0	0	5000
Oil Changed		Client Info		Changed	Changed	Changed
Sample Status				ABNORMAL	ATTENTION	NORMAL
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>50	<1	<1	0
Chromium	ppm	ASTM D5185m		<1	0	0
Nickel	ppm	ASTM D5185m	>3	2	0	0
Titanium	ppm	ASTM D5185m		- <1	0	0
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm		>10	2	0	0
Lead	ppm	ASTM D5185m	>10	- 1	0	0
Copper	ppm	ASTM D5185m		7	7	17
Tin	ppm	ASTM D5185m	>10	، <1	<1	0
Antimony		ASTM D5185m	210			
Vanadium	ppm	ASTM D5185m		 <1	0	0
Cadmium	ppm	ASTM D5185m		<1	0	0
	ppm					
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	0	0	0
Barium	ppm	ASTM D5185m	90	5	0	0
Molybdenum	ppm	ASTM D5185m	0	<1	<1	0
Manganese	ppm	ASTM D5185m		<1	<1	0
Magnesium	ppm	ASTM D5185m	100	29	26	6
Calcium	ppm	ASTM D5185m	0	4	<1	0
Phosphorus	ppm	ASTM D5185m	0	3	4	0
Zinc	ppm	ASTM D5185m	0	40	50	54
Sulfur	ppm	ASTM D5185m	23500	22642	22941	20161
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	<1	<1	0
Sodium	ppm	ASTM D5185m		20	19	8
Potassium	ppm	ASTM D5185m	>20	4	3	0
Water	%	ASTM D6304	>0.05	6 0.250	0.012	0.032
ppm Water	ppm	ASTM D6304		▲ 2500	126.9	321.9
FLUID CLEANLIN	ESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647		3358	5233	1915
Particles >6µm		ASTM D7647	>1300	<u> </u>	672	393
Particles >14µm		ASTM D7647	>80	A 311	153	13
Particles >21µm		ASTM D7647	>20	<u> </u>	39	3
Particles >38µm		ASTM D7647	>4	<u> </u>	3	0
Particles >71µm		ASTM D7647		<u></u>	1	0
Oil Cleanliness		ISO 4406 (c)	>/17/13	<u> </u>	20/18/14	18/16/11
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	1.0	0.40	0.35	0.40
ACIU NUMBEL (AN)	ing NOTING	A01WI D0040		ntact/Location: 9		

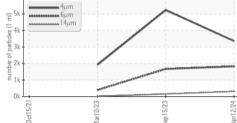
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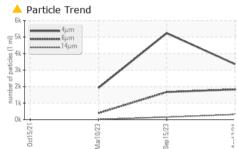
Contact/Location: Service Manager - SOUUNICAL

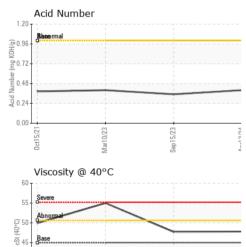


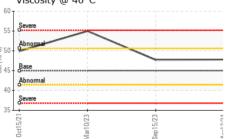
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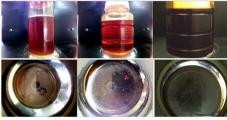




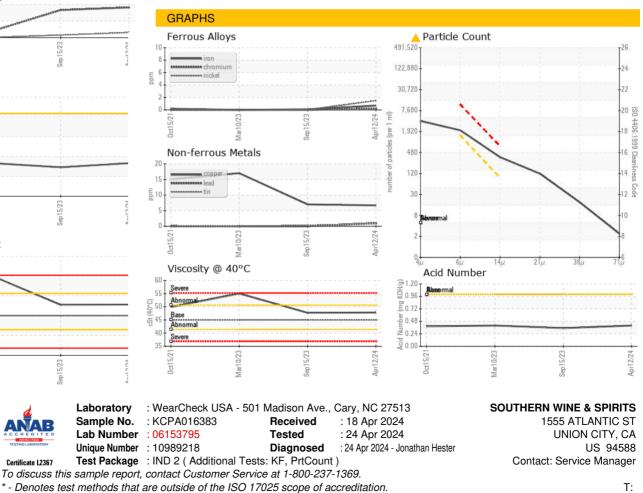


VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	LIGHT	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.05	0.2%	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG
FLUID PROPERT	IES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	45	47.8	47.7	54.99
SAMPLE IMAGES	S	method	limit/base	current	history1	history2

Color



Bottom



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

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Certificate 12367

Contact/Location: Service Manager - SOUUNICAL

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