

#### RECOMMENDATION

The oil change at the time of sampling has been noted. Resample at the next service interval to monitor.

PROBLEMATIC TES	ST RESULTS			
Sample Status		ATTENTION	NORMAL	ABNORMAL
Particles >6µm	ASTM D7647 >13	00 🔺 1672	393	
Particles >14µm	ASTM D7647 >80	🔺 153	13	
Particles >21µm	ASTM D7647 >20	<u> </u>	3	
Oil Cleanliness	ISO 4406 (c) >/	17/13 🔺 <b>20/18/14</b>	18/16/11	

Customer Id: SOUUNICAL Sample No.: KCP40029D Lab Number: 05960645 Test Package: IND 2



To manage this report scan the QR code

To discuss the diagnosis or test data: Angela Borella +1 800-237-1369 angela.borella@wearcheckusa.com

To change component or sample information: Customer Service +1 1-800-237-1369 customerservice@wearcheck.com There are no recommended actions for this sample.

#### HISTORICAL DIAGNOSIS

#### 10 Mar 2023 Diag: Doug Bogart



To Mar 2025 Diag. Doug Bogart

Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.All component wear rates are normal. There is no indication of any contamination in the oil. The amount and size of particulates present in the system are acceptable. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

#### 15 Oct 2021 Diag: Jonathan Hester



Oil and filter change at the time of sampling has been noted. We recommend an early resample in 500 hours to monitor this condition. We were unable to perform a particle count due to a high concentration of particles present in this sample.All component wear rates are normal. Appearance is hazy. Free water present. There is a moderate concentration of water present in the oil. Moderate concentration of visible dirt/debris present in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.





## **OIL ANALYSIS REPORT**

SAMPLE INCODMATION

# Sample Rating Trend ISO

KAESER 4880053

#### Compressor

KAESER SIGMA (OEM) M-460 (--- GAL)

#### DIAGNOSIS

#### Recommendation

The oil 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 moderate 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.

SAMPLE INFORM	<b>IATION</b>	method	limit/base	current	history1	history2
Sample Number		Client Info		KCP40029D	KCP45865	KCP36248
Sample Date		Client Info		15 Sep 2023	10 Mar 2023	15 Oct 2021
Machine Age	hrs	Client Info		42605	39882	32317
Oil Age	hrs	Client Info		0	5000	0
Oil Changed		Client Info		Changed	Changed	Changed
Sample Status				ATTENTION	NORMAL	ABNORMAL
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>50	<1	0	<1
Chromium	ppm	ASTM D5185m	>10	0	0	0
Nickel	ppm	ASTM D5185m	>3	0	0	<1
Titanium	ppm	ASTM D5185m	>3	0	0	0
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>10	0	0	<1
Lead	ppm	ASTM D5185m	>10	0	0	0
Copper	ppm	ASTM D5185m		7	17	15
Tin	ppm	ASTM D5185m	>10	, <1	0	<1
Antimony	ppm	ASTM D5185m	~10			<1
Vanadium		ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
	ppm			U		
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	0	0	17
Barium	ppm	ASTM D5185m	90	0	0	0
Molybdenum	ppm	ASTM D5185m	0	<1	0	0
Manganese	ppm	ASTM D5185m		<1	0	0
Magnesium	ppm	ASTM D5185m	100	26	6	14
Calcium	ppm	ASTM D5185m	0	<1	0	0
Phosphorus	ppm	ASTM D5185m	0	4	0	17
Zinc	ppm	ASTM D5185m	0	50	54	41
Sulfur	ppm	ASTM D5185m	23500	22941	20161	18357
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	<1	0	<1
Sodium	ppm	ASTM D5185m		19	8	7
Potassium	ppm	ASTM D5185m	>20	3	0	<1
Water	%	ASTM D6304	>0.05	0.012	0.032	▲ 0.423
ppm Water	ppm	ASTM D6304	>500	126.9	321.9	4230
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647		5233	1915	
Particles >6µm		ASTM D7647	>1300	<u> </u>	393	
Particles >14µm		ASTM D7647	>80	<u> </u>	13	
Particles >21µm		ASTM D7647	>20	<u> </u>	3	
Particles >38µm		ASTM D7647	>4	3	0	
Particles >71µm		ASTM D7647	>3	1	0	
Oil Cleanliness		ISO 4406 (c)	>/17/13	<b>A</b> 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	0.35	0.40	0.385
	ing NOTing	70 FW D0040			0.40 Service Manage	

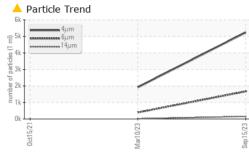
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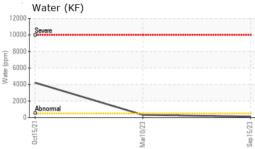
Contact/Location: Service Manager - SOUUNICAL

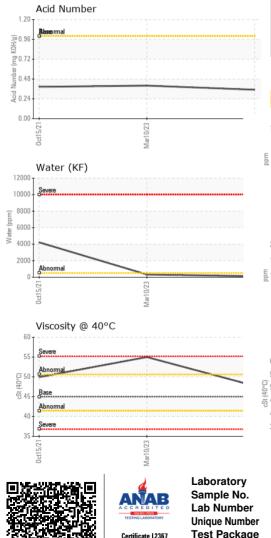
### -COMPRESSOR

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# **OIL ANALYSIS REPORT**

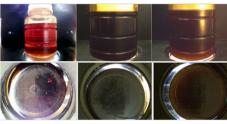




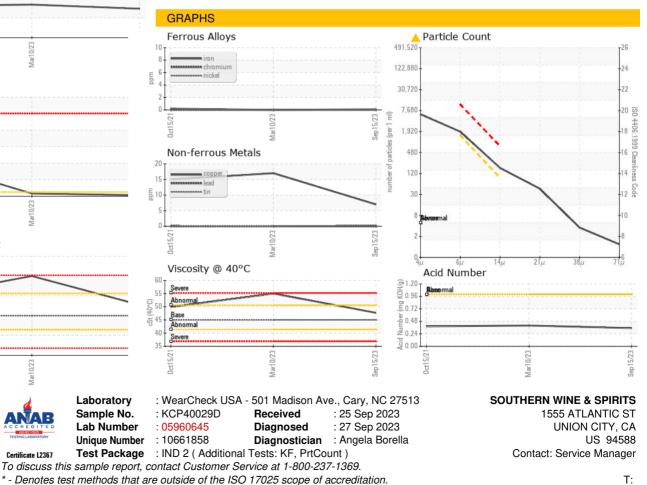


VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	LIGHT	NONE	🔺 MODER
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	🔺 HAZY
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.05	NEG	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	<b>▲</b> 1.0
FLUID PROPERT	IES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	45	47.7	54.99	49.9
SAMPLE IMAGES	S	method	limit/base	current	history1	history2

Color



Bottom



\* - 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)

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Contact/Location: Service Manager - SOUUNICAL