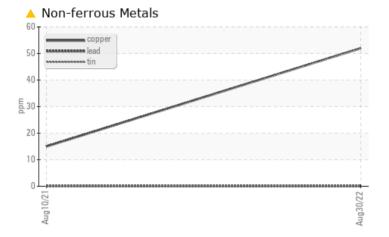


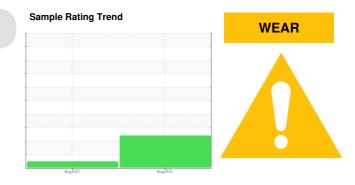
PROBLEM SUMMARY

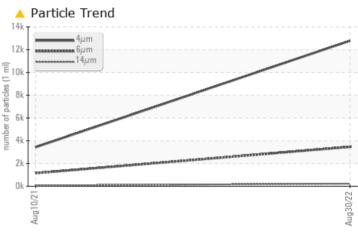
KAESER 7175557

Compressor Fluid KAESER SIGMA (OEM) S-460 (--- GAL)

COMPONENT CONDITION SUMMARY







RECOMMENDATION

Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.

PROBLEMATIC TEST RESULTS

Sample Status				ABNORMAL	NORMAL			
Copper	ppm	ASTM D5185m	>50	<u> </u>	15			
Particles >6µm		ASTM D7647	>1300	A 3465	1150			
Particles >14µm		ASTM D7647	>80	<u> </u>	69			
Particles >21µm		ASTM D7647	>20	<u> </u>	21			
Oil Cleanliness		ISO 4406 (c)	>/17/13	<u> </u>	17/13			

Customer Id: UNIKAN Sample No.: KCP38242 Lab Number: 05645531 Test Package: IND 2



To manage this report scan the QR code

To discuss the diagnosis or test data: Jonathan Hester +1 919-379-4092 x4092 jhester@wearcheckusa.com

To change component or sample information: Customer Service +1 1-800-237-1369 <u>customerservice@wearcheck.com</u>

RECOMMENDED ACTIONS						
Action	Status	Date	Done By	Description		
Change Fluid			?	Oil and filter change at the time of sampling has been noted.		
Change Filter			?	Oil and filter change at the time of sampling has been noted.		

HISTORICAL DIAGNOSIS



10 Aug 2021 Diag: Don Baldridge

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





OIL ANALYSIS REPORT

Machine Id **KAESER 7175557** Component

Compressor Fluid

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

DIAGNOSIS

Recommendation

Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.

🔺 Wear

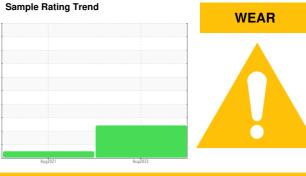
The copper level is abnormal. All other component wear rates are normal.

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 suitable for further service.



SAMPLE INFORM	IATION	method	limit/base	current	history 1	history 2
Sample Number				KCP38242	KCP41549	
Sample Date				30 Aug 2022	10 Aug 2021	
Machine Age	hrs			8852	5362	
Oil Age	hrs			3000	4000	
Oil Changed				Changed	Changed	
Sample Status				ABNORMAL	NORMAL	
WEAR METALS		method	limit/base	current	history 1	history 2
Iron	ppm	ASTM D5185m	>50	0	<1	
Chromium	ppm	ASTM D5185m	>10	0	0	
Nickel	ppm	ASTM D5185m	>3	0	0	
Titanium	ppm	ASTM D5185m	>3	0	0	
Silver	ppm	ASTM D5185m	>2	<1	0	
Aluminum	ppm	ASTM D5185m	>10	<1	0	
Lead	ppm	ASTM D5185m	>10	0	<1	
Copper	ppm	ASTM D5185m	>50	<u> </u>	15	
Tin	ppm	ASTM D5185m	>10	0	0	
Antimony	ppm	ASTM D5185m			0	
Vanadium	ppm	ASTM D5185m		0	0	
Cadmium	ppm	ASTM D5185m		0	0	
ADDITIVES	pp	method	limit/base	-	-	bistory 0
			inniv base		history 1	history 2
Boron	ppm	ASTM D5185m		0	<1	
Barium	ppm	ASTM D5185m	90	0	0	
Molybdenum	ppm	ASTM D5185m		0	0	
Manganese	ppm	ASTM D5185m		0	0	
Magnesium	ppm	ASTM D5185m	90	0	<1	
Calcium	ppm	ASTM D5185m	2	0	0	
Phosphorus	ppm	ASTM D5185m		6	7	
Zinc	ppm	ASTM D5185m		5	0	
Sulfur	ppm	ASTM D5185m		13020	10244	
CONTAMINANTS	;	method	limit/base	current	history 1	history 2
Silicon	ppm	ASTM D5185m	>25	<1	<1	
Sodium	ppm	ASTM D5185m		0	0	
Potassium	ppm	ASTM D5185m	>20	0	0	
Water	%	ASTM D6304	>0.05	0.014	0.003	
ppm Water	ppm	ASTM D6304	>500	148.5	38.1	
FLUID CLEANLIN	IESS	method	limit/base	current	history 1	history 2
Particles >4µm		ASTM D7647		12784	3433	
Particles >6µm		ASTM D7647	>1300	A 3465	1150	
Particles >14µm		ASTM D7647	>80	<u> </u>	69	
Particles >21µm		ASTM D7647	>20	<u> </u>	21	
Particles >38µm		ASTM D7647	>4	1	1	
Particles >71µm		ASTM D7647	>3	0	0	
Oil Cleanliness		ISO 4406 (c)	>/17/13	A 21/19/15	17/13	
FLUID DEGRADA	TION	method	limit/base	current	history 1	history 2
Acid Number (AN)	mg KOH/g	ASTM D8045	0.4	0.44	0.270	

Acid Number (AN)

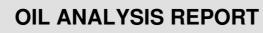
0.270 0.44

Report Id: UNIKAN [WUSCAR] 05645531 (Generated: 09/21/2022 10:53:23)

Contact/Location: Service Manager - UNIKAN



Built for a lifetime.

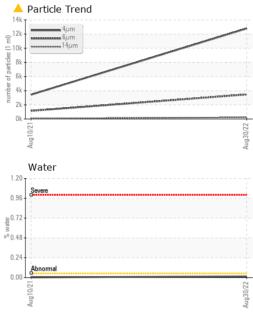


method

limit/base

current

VISUAL



	White Metal	scalar	*Visual	NONE	NONE	NONE	
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
	Precipitate	scalar	*Visual	NONE	NONE	NONE	
	Silt	scalar	*Visual	NONE	NONE	NONE	
	Debris	scalar	*Visual	NONE	LIGHT	LIGHT	
	Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	
0/22 -	Appearance	scalar	*Visual	NORML	NORML	NORML	
Aug30/22	Odor	scalar	*Visual	NORML	NORML	NORML	
	Emulsified Water	scalar	*Visual	>0.05	NEG	NEG	
	Free Water	scalar	*Visual		NEG	NEG	
	FLUID PROPERT	TIES	method	limit/base	current	history 1	history 2
	Visc @ 40°C	cSt	ASTM D445	46	51.4	44.3	
	SAMPLE IMAGE		method	limit/base	current	history 1	history 2
						,,	
Aug30/22	Color						no image
	Bottom						no image
	GRAPHS						
	Ferrous Alloys				Particle Count		
	10 iron			491,520]		1 ²⁶
	o t			122,880			-24
				30,720			-22
	2			50,120			122
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	Non-ferrous Meta 60	S		otune 480			-16 Cea
	copper		_	Aug30/22- 40030/22- 1200 1200 1200 1200 1200 1200 1200 1	· · · · · · · · · · · · · · · · · · ·		+20 ISO 4406:1999 Cleanliness Code
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	20			8	Server mal		-10
		******	******	2 2	•		
	Aug 10/2			Aug30/2			
				NY 0.4	μ 6μ 14	μ 21μ 3	71µ
	Viscosity @ 40°C				Acid Number	see to destants al	1000,7000
	Abnormal			(0,000 H) 0,000 (0,000 (0,000 (0,000 (0,000 (0,000) (0,000) (0,000) (0,000) (0,000) (0,000) (0,000) (0,000) (0,000) (0,000) (0,000) (0,000) (0,000) (0,000) (0,000) (0,000) (0,000) (0,000) (0,000) (0,000) (0,000) (0,000) (0,000) (0,000) (0,000) (0,000) (0,000) (0,000) (0,000) (0,000) (0,000) (0,000) (0,000) (0,000) (0,000) (0,000) (0,000) (0,000) (0,000) (0,000) (0,000) (0,000) (0,000) (0,000) (0,000) (0,000) (0,000) (0,000) (0,000) (0,000) (0,000) (0,000) (0,000) (0,000) (0,000) (0,000) (0,000) (0,000) (0,000) (0,000) (0,000) (0,000) (0,000) (0,000) (0,000) (0,000) (0,000) (0,000) (0,000) (0,000) (0,000) (0,000) (0,000) (0,000) (0,000) (0,000) (0,000) (0,000) (0,000) (0,000) (0,000) (0,000) (0,000) (0,000) (0,000) (0,000) (0,000) (0,000) (0,000) (0,000) (0,000) (0,000) (0,000) (0,000) (0,000) (0,000) (0,000) (0,000) (0,000) (0,000) (0,000) (0,000) (0,000) (0,000) (0,000) (0,000) (0,000) (0,000) (0,000) (0,000) (0,000) (0,000) (0,000) (0,000) (0,000) (0,000) (0,000) (0,000) (0,000) (0,000) (0,000) (0,000) (0,000) (0,000) (0,000) (0,000) (0,000) (0,000) (0,000) (0,000) (0,000) (0,000) (0,000) (0,000) (0,000) (0,000) (0,000) (0,000) (0,000) (0,000) (0,000) (0,000) (0,000) (0,000) (0,000) (0,000) (0,000) (0,000) (0,000) (0,000) (0,000) (0,000) (0,000) (0,000) (0,000) (0,000) (0,000) (0,000) (0,000) (0,000) (0,000) (0,000) (0,000) (0,000) (0,000) (0,000) (0,000) (0,000) (0,000) (0,000) (0,000) (0,000) (0,000) (0,000) (0,000) (0,000) (0,000) (0,000) (0,000) (0,000) (0,000) (0,000) (0,000) (0,000) (0,000) (0,000) (0,000) (0,000) (0,000) (0,000) (0,000) (0,000) (0,000) (0,000) (0,000) (0,000) (0,000) (0,000) (0,000) (0,000) (0,000) (0,000) (0,000) (0,000) (0,000) (0,000) (0,000) (0,000) (0,000) (0,000) (0,000) (0,000) (0,000) (0,000) (0,000) (0,000) (0,000) (0,000) (0,000) (0,000) (0,000) (0,000) (0,000) (0,000) (0,000) (0,000) (0,000) (0,000) (0,000) (0,000) (0,000) (0,000) (0,000) (0,000) (0,000) (0,000) (0,000) (0,000) (0,000) (0,000) (0,000) (0,000) (0,000) (0,000) (0,000) (0,000) (0,000) (0,000) (0,000) (0,000) (0	Base		
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	35						2
	Aug10/21			Aug30/22	Aug 10/2		Aug30/22
	Au			Au	А		Aui
st methods that a	: 05645531 : 10140070 : IND 2 (Additional T contact Customer Serv are outside of the ISO 1	Received Diagnos Diagnos ests: KF, ice at 1-8 7025 scc	d : 19 3 ed : 21 3 tician : Jon PrtCount) 800-237-1369 ope of accrea	Sep 2022 Sep 2022 athan Hester 9. <i>litation.</i>		2601 E T	T:
contormity to spec	cifications are based on t	ne simple	acceptance of	aecision rule (J	и <i>сам 106:2012)</i>		F:



history 2

history 1