

COMPRESSORS Built for a lifetime.

Machine Ic KAESER DSD 200 3178241 (S/N 1005) Component

Compressor

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





RECOMMENDATION

The filter change at the time of sampling has been noted. 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.

PROBLEMATIC TEST RESULTS							
Sample Status				ABNORMAL	ABNORMAL	ABNORMAL	
Water	%	ASTM D6304	>0.05	A 0.185	0.005	0.024	
ppm Water	ppm	ASTM D6304	>500	A 1850	54.0	242.3	
Particles >6µm		ASTM D7647	>1300	<u> </u>		A 22831	
Particles >14µm		ASTM D7647	>80	🔺 779		🔺 2510	
Particles >21µm		ASTM D7647	>20	<u> </u>		<u> </u>	
Particles >38µm		ASTM D7647	>4	4 1		4 0	
Particles >71µm		ASTM D7647	>3	<u> </u>		<u> </u>	
Oil Cleanliness		ISO 4406 (c)	>/17/13	A 20/19/17		🔺 22/19	
Free Water	scalar	*Visual		<u> </u>	NEG	NEG	

Customer Id: METMONKCP Sample No.: KCP46829 Lab Number: 05647881 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 ihester@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



25 Jan 2022 Diag: Angela Borella

No corrective action is recommended at this time. Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor. 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. Moderate concentration of visible dirt/debris present in the oil. The AN level is acceptable for this fluid. The condition of the oil is acceptable for the time in service.



The 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 a high amount of particulates present in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.



ISO

16 Apr 2020 Diag: Angela Borella

The 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 a high amount of particulates 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

Built for a lifetime.

Machine Id KAESER DSD 200 3178241 (S/N 1005) Component

Compressor Fluic

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

DIAGNOSIS

Recommendation

The filter change at the time of sampling has been noted. 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.

Wear

All component wear rates are normal.

Contamination

There is a high amount of particulates present in the oil. Free water present. 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	history 1	history 2
Sample Number				KCP46829	KCP34971	KCP11124
Sample Date				15 Sep 2022	25 Jan 2022	22 Mar 2021
Machine Age	hrs			18790	16475	12023
Oil Age	hrs			3000	4000	3000
Oil Changed				Not Changd	Changed	Not Changd
Sample Status				ABNORMAL	ABNORMAL	ABNORMAL
WEAR METALS		method	limit/base	current	history 1	history 2
Iron	nnm	ASTM D5185m	> 50	-1	-1	~1
Chromium	ppm	ASTM D5185m	>10	<1	0	0
Niekol	ppm	ACTM D5105m	>10	0	0	0
Titonium	ppm	ACTM DE105m	>0	0	0	.1
Cilver	ppm	ASTM DE105m	>3	0	0	<1
Sliver	ррпп		10	<1	< 1	<
	ppm		>10	0	0	< 1
Lead	ppm	ASTM D5185m	>10	0	<1	0
Copper	ppm	ASTM D5185m	>50	3	8	2
i in	ppm	ASTM D5185m	>10	<1	0	<1
Antimony	ppm	ASTM D5185m			<1	0
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history 1	history 2
Boron	ppm	ASTM D5185m		0	0	8
Barium	ppm	ASTM D5185m	90	0	<1	0
Molybdenum	ppm	ASTM D5185m		0	0	0
Manganese	ppm	ASTM D5185m		<1	0	<1
Magnesium	ppm	ASTM D5185m	90	16	4	32
Calcium	ppm	ASTM D5185m	2	0	<1	0
Phosphorus	ppm	ASTM D5185m		1	11	2
Zinc	ppm	ASTM D5185m		21	19	24
Sulfur	ppm	ASTM D5185m		20971	14512	13039
CONTAMINANTS	;	method	limit/base	current	history 1	history 2
Silicon	ppm	ASTM D5185m	>25	<1	<1	0
Sodium	ppm	ASTM D5185m		2	0	13
Potassium	ppm	ASTM D5185m	>20	2	<1	<1
Water	%	ASTM D6304	>0.05	<u> </u>	0.005	0.024
ppm Water	ppm	ASTM D6304	>500	A 1850	54.0	242.3
FLUID CLEANLIN	IESS	method	limit/base	current	history 1	history 2
Particles >4µm		ASTM D7647		8402		67300
Particles >6µm		ASTM D7647	>1300	<u> </u>		A 22831
Particles >14µm		ASTM D7647	>80	<u> </u>		2 510
Particles >21µm		ASTM D7647	>20	<u> </u>		<u> </u>
Particles >38µm		ASTM D7647	>4	4 1		4 0
Particles >71µm		ASTM D7647	>3	<u> </u>		<u> </u>
Oil Cleanliness		ISO 4406 (c)	>/17/13	20/19/17		2 2/19
FLUID DEGRADA	TION	method	limit/base	current	history 1	history 2
Acid Number (AN)	ma KOH/a	ASTM D8045	0.4	0.38	0.35	0 369

Acid Number (AN)

mg KOH/g ASTM D8045 0.4

0.369 Contact/Location: Service Manager - METMONKCP



Jag 20k 10 0k

Apr2/19

Aug1/19

Apr16/20

Built for a lifetime.

OIL ANALYSIS REPORT



Sep15/22

Jan25/22

Mar22/7

VISUAL		method	limit/base	current	history 1	history 2
White Metal	scalar	*Visual	NONE	NONE	NONE	LIGHT
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	🔺 MODER	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	NEG	NEG	NEG
Free Water	scalar	*Visual		<mark>▲</mark> 1.0	NEG	NEG
FLUID PROPERT	IES	method	limit/base	current	history 1	history 2
Visc @ 40°C	cSt	ASTM D445	46	44.1	44.6	44.3
SAMI LE IMAGES		method	limit/base	current	history 1	history 2
Color	;	method	limit/base	current	history 1	history 2

