

PROBLEM SUMMARY

KAESER CSD 60 3373360 (S/N 1080) Component

Compressor

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

COMPONENT CONDITION SUMMARY



RECOMMENDATION

No corrective action is recommended at this time. The filter change at the time of sampling has been noted. Resample at the next service interval to monitor.

Sample Rating Trend ISO

PROBLEMATIC TE	ST RESULTS			
Sample Status		ABNORMAL	ABNORMAL	ABNORMAL
Particles >6µm	ASTM D7647 >130	0 🔺 2415		<u> </u>
Particles >14µm	ASTM D7647 >80	A 373		61
Particles >21µm	ASTM D7647 >20	<u> </u>		9
Oil Cleanliness	ISO 4406 (c) >/1	7/13 🔺 21/18/16		1 9/13

Customer Id: PERCOA Sample No.: KC91317 Lab Number: 05621809 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

RECOMMENDED ACTIONS

There are no recommended actions for this sample.

HISTORICAL DIAGNOSIS

09 Feb 2022 Diag: Don Baldridge

VIS DEBRIS



We recommend you service the filters on this component. 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 suitable for further service.



view report

20 Aug 2020 Diag: Don Baldridge

09 Mar 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 silt (particulates < 14 microns in size) present in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.



NORMAL



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.All component wear rates are normal. 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.





OIL ANALYSIS REPORT

Built for a lifetime.

Machine Id KAESER CSD 60 3373360 (S/N 1080) Component

Compressor Fluid

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

DIAGNOSIS

A Recommendation

No corrective action is recommended at this time. The filter 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 high amount of particulates present in the oil.

Fluid Condition

The AN level is acceptable for this fluid.



SAMPLE INFORM	ATION	method	limit/base	current	history 1	history 2
Sample Number				KC91317	KC85559	KC83311
Sample Date				12 Aug 2022	09 Feb 2022	20 Aug 2020
Machine Age	hrs			54519	52345	47198
Oil Age	hrs			3800	2300	2000
Oil Changed				Not Changd	Not Changd	Not Changd
Sample Status				ABNORMAL	ABNORMAL	ABNORMAL
WEAR METALS		method	limit/base	current	history 1	history 2
Iron	nnm	ASTM D5185m	<u>⊳50</u>	0	0	-1
Chromium	nnm	ASTM D5185m	>10	0	0	0
Nickel	ppm	ASTM D5185m	>3	1	0	0
Titanium	nnm	ASTM D5185m	>3	0	0	0
Silver	nnm	ASTM D5185m	>2	0	<1	0
Aluminum	nnm	ASTM D5185m	>10	۰ د1	0	<1
Lead	nnm	ASTM D5185m	>10	0	0	0
Conner	nnm	ASTM D5185m	>50	27	15	23
Tin	nnm	ASTM D5185m	>10	0	0	0
Antimony	nnm	ASTM D5185m	210		0	0
Vanadium	nnm	ASTM D5185m		<i>c</i> 1	0	0
Cadmium	nnm	ASTM D5185m		0	0	0
Oddinidini	ppm			Ũ	0	0
ADDITIVES		method	limit/base	current	history 1	history 2
Boron	ppm	ASTM D5185m		0	3	0
Barium	ppm	ASTM D5185m	90	0	0	0
Molybdenum	ppm	ASTM D5185m		0	0	0
Manganese	ppm	ASTM D5185m		0	0	0
Magnesium	ppm	ASTM D5185m	90	0	0	0
Calcium	ppm	ASTM D5185m	2	0	0	0
Phosphorus	ppm	ASTM D5185m		3	2	<1
Zinc	ppm	ASTM D5185m		0	0	0
CONTAMINANTS		method	limit/base	current	history 1	history 2
Silicon	ppm	ASTM D5185m	>25	0	0	<1
Sodium	ppm	ASTM D5185m		<1	<1	<1
Potassium	ppm	ASTM D5185m	>20	<1	0	0
Water	%	ASTM D6304	>0.05	0.009	0.003	0.007
ppm Water	ppm	ASTM D6304	>500	91.0	29.9	75.6
FLUID CLEANLIN	IESS	method	limit/base	current	history 1	history 2
Particles >4µm		ASTM D7647		12953		11133
Particles >6µm		ASTM D7647	>1300	<u> </u>		A 2788
Particles >14µm		ASTM D7647	>80	A 373		61
Particles >21µm		ASTM D7647	>20	<u> </u>		9
Particles >38µm		ASTM D7647	>4	4		0
Particles >71µm		ASTM D7647	>3	0		0
Oil Cleanliness		ISO 4406 (c)	>/17/13	A 21/18/16		▲ 19/13
FLUID DEGRADA	TION	method	limit/base	current	history 1	history 2
Acid Number (AN)	ma KOH/a	ASTM D8045	0.4	0.37	0.44	0.440

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OIL ANALYSIS REPORT



VISUAL		method	limit/base	current	history 1	history 2
White Metal	scalar	*Visual	NONE	LIGHT	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	🔺 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		NEG	NEG	NEG
FLUID PROPERT	IES	method	limit/base	current	history 1	history 2
FLUID PROPERT	I <mark>ES</mark> cSt	method ASTM D445	limit/base 46	current 45.4	history 1 45.4	history 2 44.3
FLUID PROPERT Visc @ 40°C SAMPLE IMAGES	IES cSt	method ASTM D445 method	limit/base 46 limit/base	current 45.4 current	history 1 45.4 history 1	history 2 44.3 history 2
FLUID PROPERT Visc @ 40°C SAMPLE IMAGES Color	cSt	method ASTM D445 method	limit/base 46 limit/base	current 45.4 current	history 1 45.4 history 1	history 2 44.3 history 2



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