

PROBLEM SUMMARY

KAESER CSD 75 6555538 (S/N 1502)

Compressor

KAESER SIGMA (OEM) M-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.

PROBLEMATIC TEST RESULTS Sample Status NORMAL ABNORMAL ABNORMAL Particles >6µm ASTM D7647 >1300 2599 471 - 🔺 Particles >14µm ASTM D7647 >80 42 12 Particles >21µm ASTM D7647 >20 45 **Oil Cleanliness** ISO 4406 (c) >--/17/13 **A 20/19/15** 18/16/13

Customer Id: ROYHOL Sample No.: KCPA007258 Lab Number: 06007699 Test Package: IND 2



To manage this report scan the QR code

To discuss the diagnosis or test data: Don Baldridge +1 don.b505@comcast.net

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



RECOMMENDED ACTIONS

There are no recommended actions for this sample.

HISTORICAL DIAGNOSIS

07 Jun 2022 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.

14 Dec 2021 Diag: Doug Bogart

23 Jul 2021 Diag: Doug Bogart



We advise that you stop the unit and follow the water drain-off procedure for this component. The 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. Moderate concentration of visible dirt/debris present in the oil. Free water present. There is a light concentration of water present in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.



VIS DEBRIS



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 suitable for further service.





Report Id: ROYHOL [WUSCAR] 06007699 (Generated: 11/16/2023 23:30:30) Rev: 1



OIL ANALYSIS REPORT

Machine Id KAESER CSD 75 6555538 (S/N 1502) Component

Compressor Fluid

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

DIAGNOSIS

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. The condition of the oil is suitable for further service.



SAMPLE INFORM		method	limit/base	current	nistory i	nistory2
Sample Number		Client Info		KCPA007258	KC103377	KC96599
Sample Date		Client Info		08 Nov 2023	07 Jun 2022	14 Dec 2021
Machine Age	hrs	Client Info		39335	28879	25338
Oil Age	hrs	Client Info		0	3000	3800
Oil Changed		Client Info		N/A	Changed	Not Changd
Sample Status				ABNORMAL	NORMAL	ABNORMAL
		mothod	limit/booo	ourropt	history	history
WEAR WEIALS		methou	IIIIII/Dase	Current	Thistory I	TIIStOLY2
Iron	ppm	ASTM D5185m	>50	0	<1	<1
Chromium	ppm	ASTM D5185m	>10	0	0	0
Nickel	ppm	ASTM D5185m	>3	0	0	0
Titanium	ppm	ASTM D5185m	>3	0	0	0
Silver	ppm	ASTM D5185m	>2	0	0	<1
Aluminum	ppm	ASTM D5185m	>10	0	0	0
Lead	ppm	ASTM D5185m	>10	0	<1	0
Copper	ppm	ASTM D5185m	>50	7	9	4
Tin	ppm	ASTM D5185m	>10	0	0	0
Antimony	ppm	ASTM D5185m				0
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	0	0	14
Barium	ppm	ASTM D5185m	90	0	0	0
Molybdenum	ppm	ASTM D5185m	0	0	0	0
Manganese	ppm	ASTM D5185m		0	0	0
Magnesium	ppm	ASTM D5185m	100	<1	<1	0
Calcium	ppm	ASTM D5185m	0	0	0	0
Phosphorus	ppm	ASTM D5185m	0	0	0	2
Zinc	ppm	ASTM D5185m	0	59	4	6
Sulfur	ppm	ASTM D5185m	23500	16941	18292	14758
CONTAMINANTS	;	method	limit/base	current	history1	history2
Silicon	maa	ASTM D5185m	>25	0	0	0
Sodium	maa	ASTM D5185m		1	0	<1
Potassium	maa	ASTM D5185m	>20	0	<1	0
Water	%	ASTM D6304	>0.05	0.005	0.013	0.605
ppm Water	ppm	ASTM D6304	>500	56.8	137.6	▲ 6050
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647		9493	1816	
Particles >6µm		ASTM D7647	>1300	<u> </u>	471	
Particles >14µm		ASTM D7647	>80	A 165	42	
Particles >21µm		ASTM D7647	>20	<u> </u>	12	
Particles >38µm		ASTM D7647	>4	2	0	
Particles >71µm		ASTM D7647	>3	0	0	
Oil Cleanliness		ISO 4406 (c)	>/17/13	A 20/19/15	18/16/13	
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	1.0	0.39	0.36	0.313

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Contact/Location: MILAN ? - ROYHOL



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OIL ANALYSIS REPORT







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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	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	1 .0
FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	45	44.8	44.5	44.6
SAMPLE IMAGES		method	limit/base	current	history1	history2
Color						
				A CONTRACTOR OF THE OWNER		

Bottom



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