

PROBLEM SUMMARY

Sample Rating Trend

ISO

Machine Id

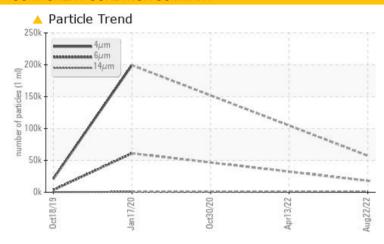
KAESER CSD 100S 6654912 (S/N 1255)

Component

Compressor

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

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			ABNORMAL	ABNORMAL	ABNORMAL		
Particles >6μm	ASTM D7647	>1300	17974				
Particles >14μm	ASTM D7647	>80	1736				
Particles >21µm	ASTM D7647	>20	<u> </u>				
Particles >38µm	ASTM D7647	>4	<u> </u>				
Oil Cleanliness	ISO 4406 (c)	>/17/13	23/21/18				

Customer Id: ATLPHI Sample No.: KC103123 Lab Number: 05636508 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 customerservice@wearcheck.com

RECOMMENDED ACTIONS

There are no recommended actions for this sample.

HISTORICAL DIAGNOSIS

13 Apr 2022 Diag: Don Baldridge

VIS DEBRIS



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. 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.



30 Oct 2020 Diag: Doug Bogart

VIS DEBRIS



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. 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.



17 Jan 2020 Diag: Jonathan Hester

WEAR

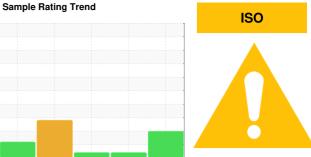


The filter change at the time of sampling has been noted. Resample at the next service interval to monitor. The copper level is abnormal. All other component wear rates are normal. There is a high amount of particulates present in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.





OIL ANALYSIS REPORT



KAESER CSD 100S 6654912 (S/N 1255)

Compressor

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

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.

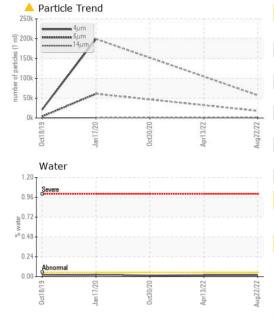
Fluid Condition

The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

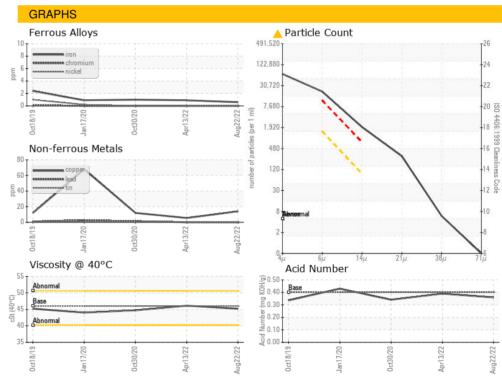
		Oct2019	Jan 2020	Oct2020 Apr2022	Aug2022	
SAMPLE INFORM	MATION	method	limit/base	current	history 1	history 2
Sample Number				KC103123	KC96515	KC91812
Sample Date				22 Aug 2022	13 Apr 2022	30 Oct 2020
Machine Age	hrs			18224	15963	7636
Oil Age	hrs			2531	13437	4000
Oil Changed				Not Changd	Not Changd	Not Changd
Sample Status				ABNORMAL	ABNORMAL	ABNORMAL
WEAR METALS		method	limit/base	current	history 1	history 2
Iron	ppm	ASTM D5185m	>50	<1	<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	<1	<1
Aluminum	ppm	ASTM D5185m	>10	<1	<1	<1
Lead	ppm	ASTM D5185m	>10	0	0	1
Copper	ppm	ASTM D5185m	>50	14	6	12
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	history 1	history 2
Boron	ppm	ASTM D5185m		0	0	9
Barium	ppm	ASTM D5185m	90	0	9	0
Molybdenum	ppm	ASTM D5185m		0	0	0
Manganese	ppm	ASTM D5185m		0	<1	<1
Magnesium	ppm	ASTM D5185m	90	27	37	25
Calcium	ppm	ASTM D5185m	2	0	0	0
Phosphorus	ppm	ASTM D5185m		1	1	0
Zinc	ppm	ASTM D5185m		17	8	21
CONTAMINANTS	1	method	limit/base	current	history 1	history 2
Silicon	ppm	ASTM D5185m	>25	<1	<1	<1
Sodium	ppm	ASTM D5185m		19	11	15
Potassium	ppm	ASTM D5185m	>20	3	0	8
Water	%	ASTM D6304	>0.05	0.018	0.017	0.013
ppm Water	ppm	ASTM D6304	>500	188.0	176.4	135.9
FLUID CLEANLIN	IESS	method	limit/base	current	history 1	history 2
Particles >4μm		ASTM D7647		57344		
Particles >6µm		ASTM D7647	>1300	<u> </u>		
Particles >14μm		ASTM D7647	>80	<u> </u>		
Particles >21µm		ASTM D7647	>20	<u>^</u> 255		
Particles >38μm		ASTM D7647	>4	<u> </u>		
Particles >71µm		ASTM D7647	>3	0		
Oil Cleanliness		ISO 4406 (c)	>/17/13	23/21/18		
FLUID DEGRADA	TION	method	limit/base	current	history 1	history 2
Acid Number (AN)	mg KOH/g	ASTM D8045	0.4	0.36	0.39	0.341



OIL ANALYSIS REPORT



VISUAL		method	limit/base	current	history 1	history 2
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	▲ MODER	▲ MODER
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
Visc @ 40°C	cSt	ASTM D445	46	45.2	46.1	44.7
SAMPLE IMAGES	3	method	limit/base	current	history 1	history 2
Color						
Bottom						





Certificate L2367

Laboratory Sample No. Lab Number **Unique Number**

: KC103123 : 05636508 : 10126038 Test Package : IND 2

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received Diagnosed

: 08 Sep 2022 : 09 Sep 2022 Diagnostician : Don Baldridge ATLANTIC STATES CAST IRON PIPE - MCWANA DUCTILE

183 SITGREAVES ST. PHILLIPSBURG, NJ USA 08865

Contact: SERVICE MANAGER

To discuss this sample report, contact Customer Service at 1-800-237-1369.

* - 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)

T:

F: