

PROBLEM SUMMARY

Sample Rating Trend

WATER

Machine Id

KAESER SX7.5T 4646848 (S/N 1090)

Component

Compressor

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

COMPONENT CONDITION SUMMARY



RECOMMENDATION

Oil and filter change at the time of sampling has been noted. There is too much water present in this sample to perform a particle count. 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	△ 0.298	△ 0.423	0.027	
ppm Water	ppm	ASTM D6304	>500	2980	4230	277.1	
Free Water	scalar	*\/icual		A 5.0	A 1 0	NEG	

Customer Id: CUMAVO Sample No.: KCP49792 Lab Number: 05637128 Test Package: IND 2



To manage this report scan the QR code

To discuss the diagnosis or test data: Doug Bogart +1 (800)237-1369 x4016 dougb@wearcheckusa.com

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

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

08 Jul 2021 Diag: Don Baldridge

WATER



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. 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. There is a moderate concentration of water present in the oil. Free water present. The AN level is acceptable for this fluid.



05 Oct 2020 Diag: Doug Bogart

WEAR



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. An increase in the copper level is noted. 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

22 Apr 2019 Diag: Angela Borella

ISO



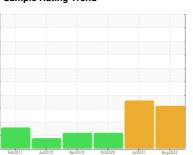
Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor. All component wear rates are normal. There is a high amount of particulates present in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.





OIL ANALYSIS REPORT

Sample Rating Trend



WATER

KAESER SX7.5T 4646848 (S/N 1090)

Compressor

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

DIAGNOSIS

Recommendation

Oil and filter change at the time of sampling has been noted. There is too much water present in this sample to perform a particle count. We recommend an early resample in 500 hours to monitor this condition.

Wear

All component wear rates are normal.

Contamination

Excessive free water present. There is a moderate concentration of water present in the oil.

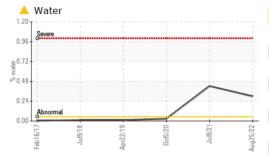
Fluid Condition

The AN level is acceptable for this fluid.

		Feb 2017	Jul2018 Apr2019	0ct2020 Jul2021	Aug2022	
SAMPLE INFORM	MATION	method	limit/base	current	history 1	history 2
Sample Number				KCP49792	KCP41917	KCP31624
Sample Date				25 Aug 2022	08 Jul 2021	05 Oct 2020
Machine Age	hrs			19805	17134	15860
Oil Age	hrs			1654	1274	3160
Oil Changed				Changed	Not Changd	Changed
Sample Status				ABNORMAL	ABNORMAL	ABNORMAL
WEAR METALS		method	limit/base	current	history 1	history 2
Iron	ppm	ASTM D5185m	>50	1	3	2
Chromium	ppm	ASTM D5185m	>10	0	0	0
Nickel	ppm	ASTM D5185m	>3	0	<1	<1
Titanium		ASTM D5185m	>3	0	0	0
Silver	ppm	ASTM D5185m	>2		<1	<1
	ppm			<1 0	1	0
Aluminum	ppm	ASTM D5185m	>10			
Lead	ppm	ASTM D5185m	>10	0	0	<1
Copper	ppm	ASTM D5185m	>50	14	15	<u>41</u>
Tin	ppm	ASTM D5185m	>10	0	0	<1
Antimony	ppm	ASTM D5185m			0	0
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		0	<1	0
ADDITIVES		method	limit/base	current	history 1	history 2
Boron	ppm	ASTM D5185m	0	0	2	2
Barium	ppm	ASTM D5185m	90	0	2	<1
Molybdenum	ppm	ASTM D5185m	0	0	0	0
Manganese	ppm	ASTM D5185m		0	<1	<1
Magnesium	ppm	ASTM D5185m	100	0	16	24
Calcium	ppm	ASTM D5185m	0	0	1	<1
Phosphorus	ppm	ASTM D5185m	0	2	12	3
Zinc	ppm	ASTM D5185m	0	69	86	61
Sulfur	ppm	ASTM D5185m	23500	17613	18695	19896
CONTAMINANTS	;	method	limit/base	current	history 1	history 2
Silicon	ppm	ASTM D5185m	>25	<1	<1	4
Sodium	ppm	ASTM D5185m	- 20	<1	6	5
Potassium	ppm	ASTM D5185m	>20	0	2	3
Water	%	ASTM D6304	>0.05	△ 0.298	<u>△</u> 0.423	0.027
ppm Water	ppm	ASTM D6304	>500	△ 2980	▲ 4230	277.1
FLUID CLEANLIN		method	limit/base	current	history 1	history 2
Particles >4µm		ASTM D7647	mine bacc			
Particles >6µm		ASTM D7647	- 1200			
		ASTM D7647	>80			
Particles >14µm						
Particles >21µm		ASTM D7647				
Particles >38µm		ASTM D7647	>4			
Particles >71µm		ASTM D7647				
Oil Cleanliness		ISO 4406 (c)	>/17/13			
FLUID DEGRADA	TION	method	limit/base	current	history 1	history 2
Acid Number (AN)	mg KOH/g	ASTM D8045	1.0	0.24	0.317	0.234

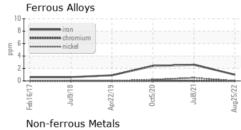


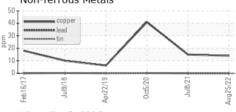
OIL ANALYSIS REPORT

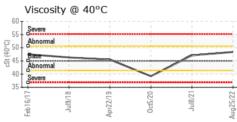


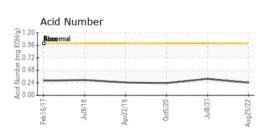
VISUAL		method	limit/base	current	history 1	history 2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	LIGHT	▲ MODER	▲ MODER
Sand/Dirt	scalar	*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	0.2%	NEG	NEG
Free Water	scalar	*Visual		△ 5.0	<u>▲</u> 1.0	NEG
FLUID PROPERT	IES	method	limit/base	current	history 1	history 2
Visc @ 40°C	cSt	ASTM D445	45	48.4	47.1	39.2
SAMPLE IMAGES	3	method	limit/base	current	history 1	history 2
Color						
Bottom						















Laboratory Sample No. Lab Number Unique Number : 10126658

: KCP49792 : 05637128

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

: 08 Sep 2022 : 09 Sep 2022

Diagnostician : Doug Bogart

Test Package : IND 2 (Additional Tests: KF, PrtCount)

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

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

* - Denotes test methods that are outside of the ISO 17025 scope of accreditation.

CUMMINGS MICROWAVE - PPG AEROSPACE

244 BODWELL ST AVON, MA USA 02322

Contact: SERVICE MANAGER

T: F: