

PROBLEM SUMMARY

Sample Rating Trend

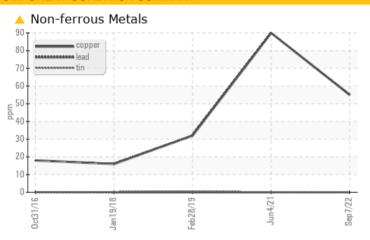
WEAR

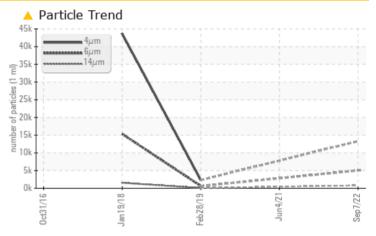
Machine Id KAESER SX 6 1361223 (S/N 1002)

Compressor

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

COMPONENT CONDITION SUMMARY





RECOMMENDATION

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.

PROBLEMATIC TEST RESULTS								
Sample Status				ABNORMAL	ABNORMAL	NORMAL		
Copper	ppm	ASTM D5185m	>50	<u></u> 55	4 90	32		
Particles >6µm		ASTM D7647	>1300	△ 5032		635		
Particles >14µm		ASTM D7647	>80	^ 797		80		
Particles >21µm		ASTM D7647	>20	<u> </u>		28		
Particles >38μm		ASTM D7647	>4	<u>^</u> 5		1		
Oil Cleanliness		ISO 4406 (c)	>/17/13	21/20/17		16/13		

Customer Id: CITSWE Sample No.: KCP37372 Lab Number: 05648340 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

04 Jun 2021 Diag: Don Baldridge

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. The copper level is abnormal. All other 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.



28 Feb 2019 Diag: Don Baldridge

NORMAL



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.



19 Jan 2018 Diag: Doug Bogart

ISO



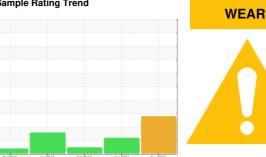
We recommend you service the filters on this component. Resample at the next service interval to monitor. All component wear rates are normal. There is a high amount of particulates present in the oil. The AN level is acceptable for this fluid. The condition of the oil is acceptable for the time in service.





OIL ANALYSIS REPORT

Sample Rating Trend



KAESER SX 6 1361223 (S/N 1002)

Compressor

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

DIAGNOSIS

Recommendation

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.

Wear

The copper level has decreased, but is still abnormal. All other component wear rates are

Contamination

There is a high amount of particulates present in the oil.

Fluid Condition

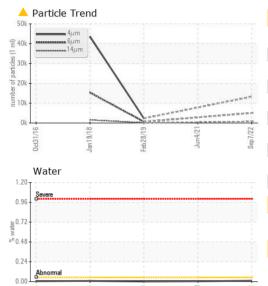
The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

		0ct2016	Jan2018	Feb 2019 Jun 2021	Sep 2022	
SAMPLE INFORM	MATION	method	limit/base	current	history 1	history 2
Sample Number				KCP37372	KCP35799	KCP00329
Sample Date				07 Sep 2022	04 Jun 2021	28 Feb 2019
Machine Age	hrs			41342	40562	38514
Oil Age	hrs			780	785	3000
Oil Changed				Changed	Changed	Changed
Sample Status				ABNORMAL	ABNORMAL	NORMAL
WEAR METALS		method	limit/base	current	history 1	history 2
Iron	ppm	ASTM D5185m	>50	4	3	1
Chromium	ppm	ASTM D5185m	>10	0	0	0
Nickel	ppm	ASTM D5185m	>3	<1	0	0
Titanium	ppm	ASTM D5185m	>3	0	0	0
Silver	ppm	ASTM D5185m	>2	0	0	<1
Aluminum	ppm	ASTM D5185m	>10	<1	0	0
Lead	ppm	ASTM D5185m	>10	0	0	0
Copper	ppm	ASTM D5185m	>50	<u> 55</u>	4 90	32
Tin	ppm	ASTM D5185m	>10	0	<1	<1
Antimony	ppm	ASTM D5185m			0	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	12	0
Barium	ppm	ASTM D5185m	90	0	0	0
Molybdenum	ppm	ASTM D5185m		0	0	<1
Manganese	ppm	ASTM D5185m		0	0	<1
Magnesium	ppm	ASTM D5185m	90	0	0	0
Calcium	ppm	ASTM D5185m	2	0	0	0
Phosphorus	ppm	ASTM D5185m		9	1	1
Zinc	ppm	ASTM D5185m		118	137	69
Sulfur	ppm	ASTM D5185m		21912	14322	18429
CONTAMINANTS	8	method	limit/base	current	history 1	history 2
Silicon	ppm	ASTM D5185m	>25	1	0	<1
Sodium	ppm	ASTM D5185m		0	<1	0
Potassium	ppm	ASTM D5185m	>20	<1	0	<1
Water	%	ASTM D6304	>0.05	0.010	0.004	0.001
ppm Water	ppm	ASTM D6304	>500	105.9	47.0	10
FLUID CLEANLIN	NESS	method	limit/base	current	history 1	history 2
Particles >4µm		ASTM D7647		13304		2316
Particles >6µm		ASTM D7647	>1300	<u></u> 5032		635
Particles >14μm		ASTM D7647	>80	797		80
Particles >21µm		ASTM D7647	>20	<u> </u>		28
Particles >38µm		ASTM D7647	>4	<u> </u>		1
Particles >71µm		ASTM D7647	>3	0		0
Oil Cleanliness		ISO 4406 (c)	>/17/13	<u>^</u> 21/20/17		16/13
FLUID DEGRADA	ATION	method	limit/base	current	history 1	history 2
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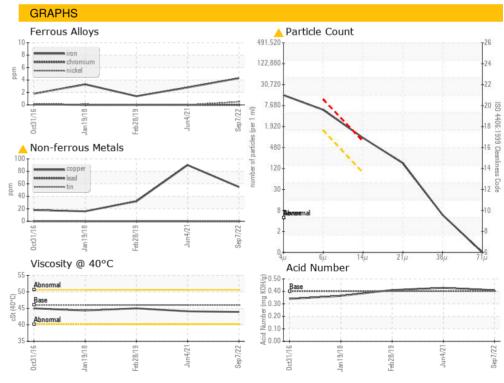
Contact/Location: SERVICE MANAGER ? - CITSWE



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	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 PROPERTIES		method	limit/base	current	history 1	history 2
Visc @ 40°C	cSt	ASTM D445	46	43.9	44.1	45.00
SAMPLE IMAGES		method	limit/base	current	history 1	history 2
Color					J	
Bottom						







Certificate L2367

Laboratory Sample No. Lab Number Unique Number : 10142879

: 05648340

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : KCP37372

Received : 22 Sep 2022 Diagnosed : 24 Sep 2022 Diagnostician : Doug Bogart Test Package : IND 2 (Additional Tests: KF, PrtCount)

USA 79556 Contact: SERVICE MANAGER

CITY OF SWEETWATER

SWEETWATER, TX

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)

169 CR 217

T:

F: