

PROBLEM SUMMARY

Sample Rating Trend

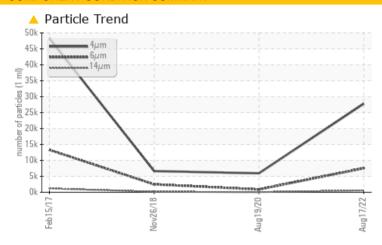
ISO

KAESER SK 15T 4430616 (S/N 1146)

Compressor

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

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	NORMAL	ABNORMAL		
Particles >6µm	ASTM D7647	>1300	7554	895	<u>4</u> 2478		
Particles >14µm	ASTM D7647	>80	<u>▲</u> 582	48	▲ 167		
Particles >21µm	ASTM D7647	>20	<u> </u>	13	△ 35		
Particles >38μm	ASTM D7647	>4	<u> </u>	0	1		
Oil Cleanliness	ISO 4406 (c)	>/17/13	<u>22/20/16</u>	17/13	<u>▲</u> 18/15		

Customer Id: CARWHIKC Sample No.: KCP28694 Lab Number: 05633657 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

19 Aug 2020 Diag: Angela Borella

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.



26 Nov 2018 Diag: Jonathan Hester

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.



15 Feb 2017 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 suitable for further service.





OIL ANALYSIS REPORT

Sample Rating Trend



ISO

Machine Id

KAESER SK 15T 4430616 (S/N 1146)

Component

Compressor

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

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

All component wear rates are normal.

▲ Contamination

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

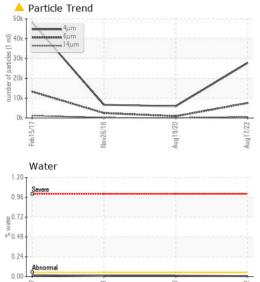
Fluid Condition

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

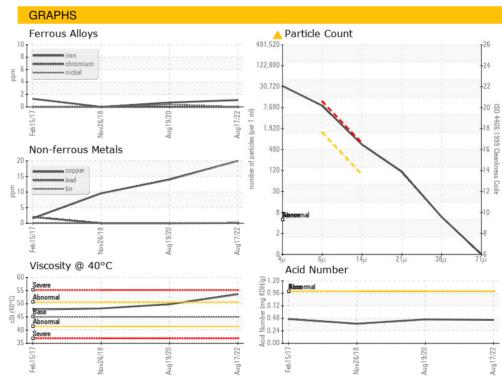
		Feb2017 Nev2018 Aug2020 Aug2022				
SAMPLE INFORM	MATION	method	limit/base	current	history 1	history 2
Sample Number				KCP28694	KCP10510	KCP12783
Sample Date				17 Aug 2022	19 Aug 2020	26 Nov 2018
Machine Age	hrs			52712	42706	29499
Oil Age	hrs			4000	0	0
Oil Changed				Changed	Changed	Changed
Sample Status				ABNORMAL	NORMAL	ABNORMAL
WEAR METALS		method	limit/base	current	history 1	history 2
Iron	ppm	ASTM D5185m	>50	1	<1	0
Chromium	ppm	ASTM D5185m	>10	0	0	0
Nickel	ppm	ASTM D5185m	>3	0	<1	0
Titanium	ppm	ASTM D5185m	>3	0	0	0
Silver	ppm	ASTM D5185m	>2	<1	0	0
Aluminum	ppm	ASTM D5185m	>10	<1	0	0
Lead	ppm	ASTM D5185m	>10	<1	0	0
Copper	ppm	ASTM D5185m	>50	20	14	10
Tin	ppm	ASTM D5185m	>10	<1	0	0
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	0	0
Barium	ppm	ASTM D5185m	90	2	0	0
Molybdenum	ppm	ASTM D5185m	0	0	0	0
Manganese	ppm	ASTM D5185m		0	0	0
Magnesium	ppm	ASTM D5185m	100	12	2	10
Calcium	ppm	ASTM D5185m	0	0	0	3
Phosphorus	ppm	ASTM D5185m	0	8	<1	0
Zinc	ppm	ASTM D5185m	0	65	17	38
Sulfur	ppm	ASTM D5185m	23500	19426	18184	21574
CONTAMINANTS		method	limit/base	current	history 1	history 2
Silicon	ppm	ASTM D5185m	>25	<1	1	0
Sodium	ppm	ASTM D5185m		2	1	9
Potassium	ppm	ASTM D5185m	>20	2	0	0
Water	%	ASTM D6304	>0.05	0.006	0.011	0.009
ppm Water	ppm	ASTM D6304	>500	66.4	115.1	90
FLUID CLEANLIN	IESS	method	limit/base	current	history 1	history 2
Particles >4μm		ASTM D7647		27794	5951	6653
Particles >6µm		ASTM D7647	>1300	<u>^</u> 7554	895	<u>4</u> 2478
Particles >14μm		ASTM D7647	>80	<u>^</u> 582	48	<u>▲</u> 167
Particles >21µm		ASTM D7647	>20	<u> </u>	13	△ 35
Particles >38μm		ASTM D7647	>4	<u>^</u> 5	0	1
Particles >71μm		ASTM D7647	>3	0	0	0
Oil Cleanliness		ISO 4406 (c)	>/17/13	<u>22/20/16</u>	17/13	▲ 18/15
FLUID DEGRADA	TION	method	limit/base	current	history 1	history 2
Acid Number (AN)	mg KOH/g	ASTM D8045	1.0	0.45	0.460	0.377



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	NONE	LIGHT
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	TIES	method	limit/base	current	history 1	history 2
Visc @ 40°C	cSt	ASTM D445	45	53.6	49.8	48.22
SAMPLE IMAGES		method	limit/base	current	history 1	history 2
Color						
Bottom						







Laboratory Sample No. Lab Number

Unique Number : 10118178

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : KCP28694 : 05633657

Received

: 02 Sep 2022 Diagnosed

: 06 Sep 2022 Diagnostician : Doug Bogart Test Package : IND 2 (Additional Tests: KF, PrtCount)

10201 PHILADELPHIA RD WHITE MARSH, MD USA 21162

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)

CARMAX

T:

F: