

PROBLEM SUMMARY

Sample Rating Trend



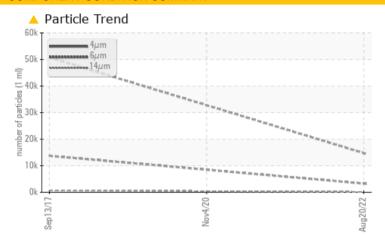
AIR CENTER SM 10 4867348 (S/N 1605)

Component

Compressor

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

COMPONENT CONDITION SUMMARY



RECOMMENDATION

Oil and filter change at the time of sampling has been noted. No corrective action is recommended at this time. Resample at the next service interval to monitor.

PROBLEMATIC TEST RESULTS							
Sample Status		ABNORMAL	ABNORMAL	ABNORMAL			
Particles >6µm	ASTM D7647 >1300	△ 3270		△ 13719			
Particles >14µm	ASTM D7647 >80	126		△ 680			
Oil Cleanliness	ISO 4406 (c) >/17/	13 A 21/19/14		<u>^</u> 21/17			

Customer Id: CARCHAKCP Sample No.: KCP49398 Lab Number: 05627491 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

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 Nov 2020 Diag: Angela Borella

WATER



Oil and 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. There is a light concentration of water present in the oil. Free water present. There is a moderate amount of visible silt present in the sample. 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.



13 Sep 2017 Diag: Don Baldridge

DIKT



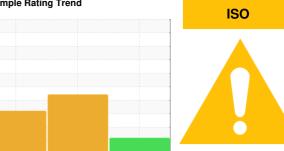
No corrective action is recommended at this time. Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor. All component wear rates are normal. There is a high amount of particulates present in the oil. Elemental level of silicon (Si) above normal. 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



AIR CENTER SM 10 4867348 (S/N 1605)

Compressor

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

DIAGNOSIS

Recommendation

Oil and filter change at the time of sampling has been noted. No corrective action is recommended at this time. 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.

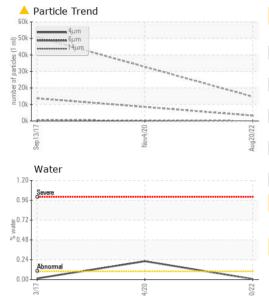
Fluid Condition

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

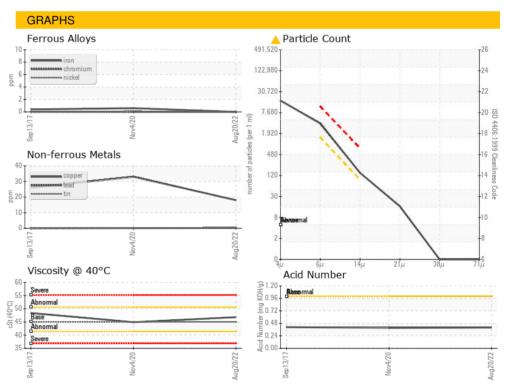
		Sep	2017	Nov2020 Aug20.	22	
SAMPLE INFORM	MATION	method	limit/base	current	history 1	history 2
Sample Number				KCP49398	KCP31641	KCP04146
Sample Date				20 Aug 2022	04 Nov 2020	13 Sep 2017
Machine Age	hrs			33296	26621	14453
Oil Age	hrs			5000	3000	0
Oil Changed				Changed	Changed	Changed
Sample Status				ABNORMAL	ABNORMAL	ABNORMAL
WEAR METALS		method	limit/base	current	history 1	history 2
Iron	ppm	ASTM D5185m	>50	0	<1	<1
Chromium	ppm	ASTM D5185m	>10	0	0	0
Nickel	ppm	ASTM D5185m		0	<1	0
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m		<1	<1	0
Aluminum	ppm	ASTM D5185m	>25	1	0	<1
Lead	ppm	ASTM D5185m	>25	<1	<1	0
Copper	ppm	ASTM D5185m	>50	18	33	26
Tin	ppm	ASTM D5185m	>15	<1	<1	0
Antimony	ppm	ASTM D5185m			<1	0
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		<1	0	0
ADDITIVES		method	limit/base	current	history 1	history 2
Boron	ppm	ASTM D5185m	0	0	<1	0
Barium	ppm	ASTM D5185m	90	0	0	<1
Molybdenum	ppm	ASTM D5185m	0	0	0	<1
Manganese	ppm	ASTM D5185m		0	<1	0
Magnesium	ppm	ASTM D5185m	100	5	32	16
Calcium	ppm	ASTM D5185m	0	0	<1	<1
Phosphorus	ppm	ASTM D5185m	0	4	<1	3
Zinc	ppm	ASTM D5185m	0	17	43	33
Sulfur	ppm	ASTM D5185m	23500	17728	17156	8069
CONTAMINANTS		method	limit/base	current	history 1	history 2
Silicon	ppm	ASTM D5185m	>25	24	17	△ 36
Sodium	ppm	ASTM D5185m		<1	2	9
Potassium	ppm	ASTM D5185m	>20	<1	<1	3
Water	%	ASTM D6304	>0.1	0.007	△ 0.222	0.014
ppm Water	ppm	ASTM D6304	>1000	71.9	<u>2220</u>	140
FLUID CLEANLIN	IESS	method	limit/base	current	history 1	history 2
Particles >4µm		ASTM D7647		14744		50806
Particles >6µm		ASTM D7647		3270		<u> 13719</u>
Particles >14μm		ASTM D7647	>80	<u> 126</u>		<u></u> 680
Particles >21μm		ASTM D7647		14		<u>126</u>
Particles >38µm		ASTM D7647	>4	0		<u> </u>
Particles >71μm		ASTM D7647		0		1
Oil Cleanliness		ISO 4406 (c)	>/17/13	<u>21/19/14</u>		<u>^</u> 21/17
FLUID DEGRADA	TION	method	limit/base	current	history 1	history 2
Acid Number (AN)	mg KOH/g	ASTM D8045	1.0	0.40	0.393	0.407



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	▲ MODER	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	>0.1	NEG	0.2%	NEG
Free Water	scalar	*Visual		NEG	<u>▲</u> 1.0	NEG
FLUID PROPERTIES		method	limit/base	current	history 1	history 2
Visc @ 40°C	cSt	ASTM D445	45	46.8	44.9	48.37
SAMPLE IMAGES		method	limit/base	current	history 1	history 2
Color						
Bottom						







Unique Number : 10112012

Laboratory Sample No. Lab Number

: KCP49398 : 05627491

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

Diagnosed

Received : 25 Aug 2022 : 28 Aug 2022 Diagnostician : Don Baldridge

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

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) **CAROLINA FRESH, LLC** 2229 W ARBORS DR CHARLOTTE, NC

USA 28262

Contact: Service Manager

T: F: