

### **PROBLEM SUMMARY**

# KAESER AIRCENTER SX 7.5 5495105 (S/N 1411)

Compressor



### COMPONENT CONDITION SUMMARY



### RECOMMENDATION

Oil and filter change at the time of sampling has been noted. We were unable to perform a particle count due to a high concentration of particles present in this sample. We recommend an early resample in 500 hours to monitor this condition.

PROBLEMATIC TEST RESULTS								
Sample Status				ABNORMAL	ABNORMAL	NORMAL		
Water	%	ASTM D6304	>0.05	<b>A</b> 0.389	0.010	0.007		
ppm Water	ppm	ASTM D6304	>500	<b>A</b> 3890	108.7	74.0		
Debris	scalar	*Visual	NONE	A MODER	LIGHT	LIGHT		
Free Water	scalar	*Visual		<b>1.0</b>	NEG	NEG		

Customer Id: CARMARMA Sample No.: KCP49810 Lab Number: 05640376 Test Package: IND 2



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*To discuss the diagnosis or test data:* Jonathan Hester +1 919-379-4092 x4092 <u>jhester@wearcheckusa.com</u>

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



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.		
Alert			?	We were unable to perform a particle count due to a high concentration of particles present in this sample.		

### **HISTORICAL DIAGNOSIS**



15 Nov 2021 Diag: Jonathan Hester

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.



view report

### 07 Apr 2021 Diag: Doug Bogart

Resample at the next service interval to monitor.All component wear rates are normal. There is no indication of any contamination in the oil. 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.



### 09 Sep 2020 Diag: Angela Borella

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





### **OIL ANALYSIS REPORT**

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#### Machine Id KAESER AIRCENTER SX 7.5 5495105 (S/N 1411) Component

Compressor Fluid

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

### DIAGNOSIS

### Recommendation

Oil and filter change at the time of sampling has been noted. We were unable to perform a particle count due to a high concentration of particles present in this sample. We recommend an early resample in 500 hours to monitor this condition.

#### Wear

All component wear rates are normal.

### Contamination

Free water present. There is a moderate concentration of water present in the oil. Moderate concentration of visible dirt/debris present in the oil.

### Fluid Condition

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



SAMPLE INFORM	<b>IATION</b>	method	limit/base	current	history 1	history 2
Sample Number				KCP49810	KCP39598	KCP35906
Sample Date				07 Sep 2022	15 Nov 2021	07 Apr 2021
Machine Age	hrs			49594	44867	40353
Oil Age	hrs			4727	4513	4302
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	<1	0	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	<1	0	<1
Aluminum	ppm	ASTM D5185m	>10	<1	0	0
Lead	ppm	ASTM D5185m	>10	<1	0	0
Copper	ppm	ASTM D5185m	>50	8	14	6
Tin	ppm	ASTM D5185m	>10	<1	0	<1
Antimony	ppm	ASTM D5185m			0	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	<1	0
Barium	ppm	ASTM D5185m	90	0	0	15
Molybdenum	ppm	ASTM D5185m		0	0	<1
Manganese	ppm	ASTM D5185m		<1	0	<1
Magnesium	ppm	ASTM D5185m	90	23	12	49
Calcium	ppm	ASTM D5185m	2	1	0	1
Phosphorus	ppm	ASTM D5185m		4	2	4
Zinc	ppm	ASTM D5185m		21	6	5
Sulfur	ppm	ASTM D5185m		16224	16671	19418
CONTAMINANTS	;	method	limit/base	current	history 1	history 2
Silicon	ppm	ASTM D5185m	>25	<1	0	0
Sodium	ppm	ASTM D5185m		3	6	20
Potassium	ppm	ASTM D5185m	>20	1	0	2
Water	%	ASTM D6304	>0.05	<b>A</b> 0.389	0.010	0.007
ppm Water	ppm	ASTM D6304	>500	<b>A</b> 3890	108.7	74.0
FLUID CLEANLIN	IESS	method	limit/base	current	history 1	history 2
Particles >4µm		ASTM D7647			10772	1684
Particles >6µm		ASTM D7647	>1300		<b>A</b> 2353	363
Particles >14µm		ASTM D7647	>80		<u> </u>	30
Particles >21µm		ASTM D7647	>20		<b>4</b> 7	11
Particles >38µm		ASTM D7647	>4		2	1
Particles >71µm		ASTM D7647	>3		0	0
Oil Cleanliness		ISO 4406 (c)	>17/13		<b>1</b> 8/15	16/12
FLUID DEGRADA	TION	method	limit/base	current	history 1	history 2
Acid Number (AN)	ma KOH/a	ASTM D8045	04	0.26	0.261	0.338

Acid Number (AN) Report Id: CARMARMA [WUSCAR] 05640376 (Generated: 09/16/2022 10:09:49)

mg KOH/g ASTM D8045 0.4

Contact/Location: SERVICE MANAGER ? - CARMARMA



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## **OIL ANALYSIS REPORT**



VISUAL		method	iinii/base	current	riistory i	nistory 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	A MODER	LIGHT	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	0.2%	NEG	NEG
Free Water	scalar	*Visual		<u> </u>	NEG	NEG
FLUID PROPERT	IES	method	limit/base	current	history 1	history 2
Visc @ 40°C	cSt	ASTM D445	46	45.9	49.6	46.7
Visc @ 40°C SAMPLE IMAGES	cSt	ASTM D445 method	46 limit/base	45.9 current	49.6 history 1	46.7 history 2
Visc @ 40°C SAMPLE IMAGES Color	cSt	ASTM D445	46 limit/base	45.9 current	49.6 history 1	46.7 history 2
Visc @ 40°C SAMPLE IMAGES Color Bottom	cSt	ASTM D445 method	46 limit/base	45.9 current	49.6 history 1	46.7 history 2



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

Contact/Location: SERVICE MANAGER ? - CARMARMA