

PROBLEM SUMMARY

Sample Rating Trend



Machine Id

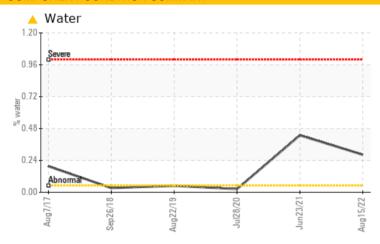
KAESER AIRTOWER 7.5C 5683183 (S/N 1538)

Component

Compressor

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

COMPONENT CONDITION SUMMARY



RECOMMENDATION

Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.

PROBLEMATIC	TEST RE	SULTS				
Sample Status				ABNORMAL	ABNORMAL	ABNORMAL
Water	%	ASTM D6304	>0.05	△ 0.283	▲ 0.429	0.024
ppm Water	ppm	ASTM D6304	>500	2830	4290	240.0
Debris	scalar	*Visual	NONE	▲ MODER	▲ MODER	LIGHT
Free Water	scalar	*Visual		1.0	<u> </u>	NEG

Customer Id: METLIL Sample No.: KCP49937 Lab Number: 05641635 Test Package: IND 2

To manage this report scan the QR code

To discuss the diagnosis or test data: Angela Borella +1 800-237-1369 angela.borella@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

23 Jun 2021 Diag: Angela Borella

WATER



The 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. Moderate concentration of visible dirt/debris present in the oil. There is a light concentration of water present in the oil. Free water present. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.



28 Jul 2020 Diag: Doug Bogart

ISO



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.



22 Aug 2019 Diag: Doug Bogart

ISO



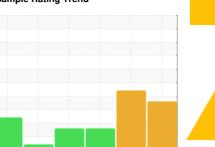
No corrective action is recommended at this time. The filter change at the time of sampling has been noted. Resample at the next service interval to monitor. All component wear rates are normal. There is a high amount of particulates present in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.





OIL ANALYSIS REPORT

Sample Rating Trend



WATER

Machine Id

KAESER AIRTOWER 7.5C 5683183 (S/N 1538)

Component

Compressor

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

DIAGNOSIS

Recommendation

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

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

Fluid Condition

The AN level is acceptable for this fluid. The condition of the oil is acceptable for the time in

		Aug2017	Sep2018 Aug2015	Jul2020 Jun2021	Aug2022	
SAMPLE INFORM	MATION	method	limit/base	current	history 1	history 2
Sample Number				KCP49937	KCP42183	KCP24442
Sample Date				15 Aug 2022	23 Jun 2021	28 Jul 2020
Machine Age	hrs			1999	1483	1086
Oil Age	hrs			515	400	400
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	<1	2
Chromium	ppm	ASTM D5185m	>10	0	0	0
Nickel	ppm	ASTM D5185m	>3	<1	0	<1
Titanium	ppm	ASTM D5185m	>3	0	0	0
Silver	ppm	ASTM D5185m	>2	0	0	<1
Aluminum	ppm	ASTM D5185m	>10	<1	0	<1
Lead	ppm	ASTM D5185m	>10	0	0	<1
Copper	ppm	ASTM D5185m	>50	21	12	7
Tin	ppm	ASTM D5185m	>10	<1	<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	0	17	12
Barium	ppm	ASTM D5185m	90	<1	0	0
Molybdenum	ppm	ASTM D5185m	0	0	0	0
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m	100	8	46	26
Calcium	ppm	ASTM D5185m	0	<1	0	1
Phosphorus	ppm	ASTM D5185m	0	4	5	2
Zinc	ppm	ASTM D5185m	0	35	6	21
Sulfur	ppm	ASTM D5185m	23500	18787	19378	18105
CONTAMINANTS	3	method	limit/base	current	history 1	history 2
Silicon	ppm	ASTM D5185m	>25	2	0	2
Sodium	ppm	ASTM D5185m		3	4	9
Potassium	ppm	ASTM D5185m	>20	0	0	<1
Water	%	ASTM D6304	>0.05	△ 0.283	△ 0.429	0.024
ppm Water	ppm	ASTM D6304	>500	2830	4290	240.0
FLUID CLEANLIN	IESS	method	limit/base	current	history 1	history 2
Particles >4µm		ASTM D7647				7775
Particles >6µm		ASTM D7647	>1300			<u>^</u> 2119
Particles >14μm		ASTM D7647	>80			<u></u> 437
Particles >21µm		ASTM D7647	>20			<u>▲</u> 183
Particles >38μm		ASTM D7647	>4			<u> </u>
Particles >71μm		ASTM D7647	>3			0
Oil Cleanliness		ISO 4406 (c)	>/17/13			▲ 18/16
FLUID DEGRADA	ATION	method	limit/base	current	history 1	history 2

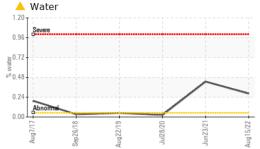
Acid Number (AN)

mg KOH/g ASTM D8045 1.0

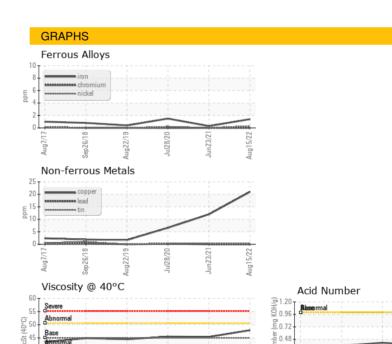
0.31 0.356 0.365



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	▲ MODER	▲ MODER	LIGHT
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	▲ HAZY	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.05	0.2%	NEG	NEG
Free Water	scalar	*Visual		<u> </u>	<u>▲</u> 1.0	NEG
FLUID PROPERT	IES	method	limit/base	current	history 1	history 2
FLUID PROPERT Visc @ 40°C	IES cSt	method ASTM D445	limit/base	current 47.9	history 1 45.4	history 2 45.5
	cSt					
Visc @ 40°C	cSt	ASTM D445	45	47.9	45.4	45.5







Laboratory Sample No. Lab Number Unique Number : 10131165

40

: KCP49937 : 05641635

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

: 14 Sep 2022 Diagnosed

Jul28/20

: 15 Sep 2022 Diagnostician : Angela Borella

Jun23/21

₹ 0.24

0.00 PG

Aug15/22

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)

METAL UNION SPEED SHOP

5395 WEBB PKWY NW LILBURN, GA

USA 30047

Contact: Service Manager

T: F: