

PROBLEM SUMMARY

Sample Rating Trend

ISO

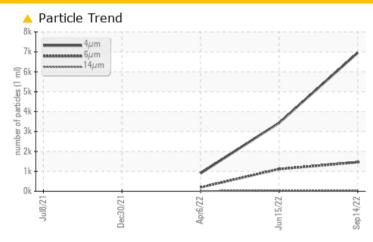
KAESER 7336552

Component

Compressor

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

COMPONENT CONDITION SUMMARY



RECOMMENDATION

No corrective action is recommended at this time. Resample at the next service interval to monitor.

PROBLEMATIC TE	ST RESULTS					
Sample Status			ATTENTION	NORMAL	NORMAL	
Particles >6µm	ASTM D7647	>1300	1460	1115	192	
Oil Cleanliness	ISO 4406 (c)	>/17/13	20/18/13	19/17/12	15/11	

Customer Id: MKEPHO Sample No.: KC104228 Lab Number: 05646072 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

There are no recommended actions for this sample.

HISTORICAL DIAGNOSIS

15 Jun 2022 Diag: Don Baldridge

NORMAL



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.



06 Apr 2022 Diag: Doug Bogart

NORMAL



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.



30 Dec 2021 Diag: Don Baldridge

VIS DEBRIS



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. All 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 acceptable for the time in service.





OIL ANALYSIS REPORT

Sample Rating Trend



KAESER 7336552

Component

Compressor

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

DIAGNOSIS

Recommendation

No corrective action is recommended at this time. Resample at the next service interval to monitor.

All component wear rates are normal.

Contamination

There is a moderate amount of silt (particulates < 14 microns in size) present in the oil.

Fluid Condition

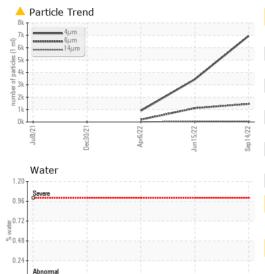
The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

		Jul2021	Dec2021	Apr2022 Jun2022	Sep2022	
SAMPLE INFORM	MATION	method	limit/base	current	history 1	history 2
Sample Number				KC104228	KC103175	KC92169
Sample Date				14 Sep 2022	15 Jun 2022	06 Apr 2022
Machine Age	hrs			12301	10159	8485
Oil Age	hrs			2142	3986	2312
Oil Changed				Not Changd	Changed	Not Changd
Sample Status				ATTENTION	NORMAL	NORMAL
WEAR METALS		method	limit/base	current	history 1	history 2
Iron	ppm	ASTM D5185m	>50	0	0	0
Chromium	ppm	ASTM D5185m	>10	0	0	0
Nickel	ppm	ASTM D5185m	>3	0	0	<1
Titanium	ppm	ASTM D5185m	>3	0	0	0
Silver	ppm	ASTM D5185m	>2	0	0	<1
Aluminum	ppm	ASTM D5185m	>10	0	0	<1
Lead	ppm	ASTM D5185m	>10	0	<1	0
Copper	ppm	ASTM D5185m	>50	11	14	7
Tin	ppm	ASTM D5185m	>10	<1	0	<1
Antimony	ppm	ASTM D5185m				
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	0
Barium	ppm	ASTM D5185m	90	0	2	0
Molybdenum	ppm	ASTM D5185m		0	0	0
Manganese	ppm	ASTM D5185m		0	0	0
Magnesium	ppm	ASTM D5185m	90	0	<1	0
Calcium	ppm	ASTM D5185m	2	0	0	0
Phosphorus	ppm	ASTM D5185m		2	5	9
Zinc	ppm	ASTM D5185m		0	0	0
CONTAMINANTS	3	method	limit/base	current	history 1	history 2
Silicon	ppm	ASTM D5185m	>25	0	0	<1
Sodium	ppm	ASTM D5185m		0	0	<1
Potassium	ppm	ASTM D5185m	>20	0	1	0
Water	%	ASTM D6304	>0.05	0.008	0.012	0.002
ppm Water	ppm	ASTM D6304	>500	83.5	124.6	23.6
FLUID CLEANLIN	NESS	method	limit/base	current	history 1	history 2
Particles >4µm		ASTM D7647		6951	3434	901
Particles >6µm		ASTM D7647	>1300	1460	1115	192
Particles >14µm		ASTM D7647	>80	41	39	13
Particles >21µm		ASTM D7647	>20	6	10	3
Particles >38µm		ASTM D7647	>4	0	1	0
Particles >71µm		ASTM D7647	>3	0	0	0
Oil Cleanliness		ISO 4406 (c)	>/17/13	<u>^</u> 20/18/13	19/17/12	15/11
FLUID DEGRADA	ATION	method	limit/base	current	history 1	history 2
Acid Number (AN)	mg KOH/g	ASTM D8045	0.4	0.35	0.41	0.38

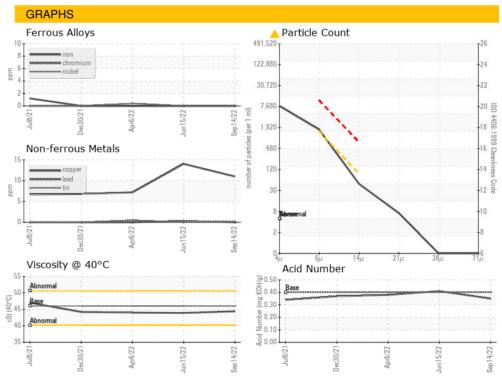


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OIL ANALYSIS REPORT



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	VLITE	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 PROPERT	TES	method	limit/base	current	history 1	history 2
Visc @ 40°C	cSt	ASTM D445	46	44.4	43.9	44.0
SAMPLE IMAGES	3	method	limit/base	current	history 1	history 2
Color						
Bottom						







Certificate L2367

Laboratory Sample No. Lab Number Unique Number : 10140611 Test Package : IND 2

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : KC104228 : 05646072

Received : 20 Sep 2022 Diagnosed : 21 Sep 2022 Diagnostician : Doug Bogart

MK ENVIRONMENTAL INC - PAPAGO PARK MILITARY RESERVATION 5636 E MCDOWELL RD

PHOENIX, AZ USA 85008

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)

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