

PROBLEM SUMMARY

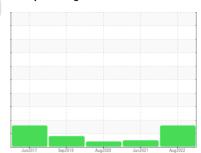
Sample Rating Trend

ISO

Machine Id KAESER AS 20 5487909 (S/N 1100)

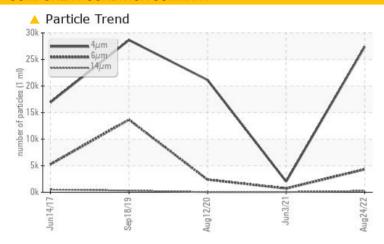
Compressor

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	NORMAL	ATTENTION		
Particles >6μm	ASTM D7647 >	>1300	<u> </u>	710	<u>^</u> 2370		
Particles >14μm	ASTM D7647 >	>80	<u> </u>	39	16		
Particles >21µm	ASTM D7647 >	>20	<u>^</u> 29	7	1		
Oil Cleanliness	ISO 4406 (c) >	>/17/13	22/19/15	17/12	<u> </u>		

Customer Id: FOUATL Sample No.: KCP48116 Lab Number: 05635085 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

03 Jun 2021 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.



12 Aug 2020 Diag: Angela Borella

ISO



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 moderate 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

18 Sep 2019 Diag: Doug Bogart

ISO

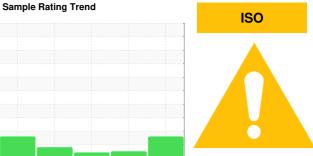


No corrective action is recommended at this time. Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor. All component wear rates are normal. There is a high amount of particulates present in the oil. The AN level is acceptable for this fluid.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





OIL ANALYSIS REPORT



KAESER AS 20 5487909 (S/N 1100)

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.

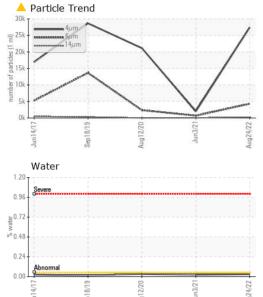
		Jun 2017	Sep2019	Aug2020 Jun2021	Aug2022	
SAMPLE INFORM	MATION	method	limit/base	current	history 1	history 2
Sample Number				KCP48116	KCP16733	KCP24829
Sample Date				24 Aug 2022	03 Jun 2021	12 Aug 2020
Machine Age	hrs			13636	11183	9552
Oil Age	hrs			2453	3350	1718
Oil Changed				Changed	Changed	Not Changd
Sample Status				ABNORMAL	NORMAL	ATTENTION
WEAR METALS		method	limit/base	current	history 1	history 2
Iron	ppm	ASTM D5185m	>50	2	<1	<1
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	0
Aluminum	ppm	ASTM D5185m	>10	<1	0	<1
Lead	ppm	ASTM D5185m	>10	0	<1	0
Copper	ppm	ASTM D5185m	>50	8	9	4
Tin	ppm	ASTM D5185m	>10	0	<1	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	<1	<1
Barium	ppm	ASTM D5185m	90	2	<1	16
Molybdenum	ppm	ASTM D5185m	0	0	0	0
Manganese	ppm	ASTM D5185m		0	<1	0
Magnesium	ppm	ASTM D5185m	100	34	25	56
Calcium	ppm	ASTM D5185m	0	0	0	<1
Phosphorus	ppm	ASTM D5185m	0	<1	9	0
Zinc	ppm	ASTM D5185m	0	36	32	23
Sulfur	ppm	ASTM D5185m	23500	17131	16600	17136
CONTAMINANTS		method	limit/base	current	history 1	history 2
Silicon	ppm	ASTM D5185m	>25	0	<1	0
Sodium	ppm	ASTM D5185m		18	9	17
Potassium	ppm	ASTM D5185m	>20	0	2	0
Water	%	ASTM D6304	>0.05	0.028	0.022	0.030
ppm Water	ppm	ASTM D6304	>500	286.5	224.8	303.5
FLUID CLEANLIN	IESS	method	limit/base	current	history 1	history 2
Particles >4µm		ASTM D7647		27416	2026	21139
Particles >6µm		ASTM D7647	>1300	4317	710	2370
Particles >14μm		ASTM D7647	>80	<u>254</u>	39	16
Particles >21μm		ASTM D7647	>20	<u>^</u> 29	7	1
Particles >38μm		ASTM D7647	>4	1	0	0
Particles >71μm		ASTM D7647	>3	0	0	0
Oil Cleanliness		ISO 4406 (c)	>/17/13	<u>22/19/15</u>	17/12	<u>▲</u> 18/11
FLUID DEGRADA	TION	method	limit/base	current	history 1	history 2
					0.011	

0.34

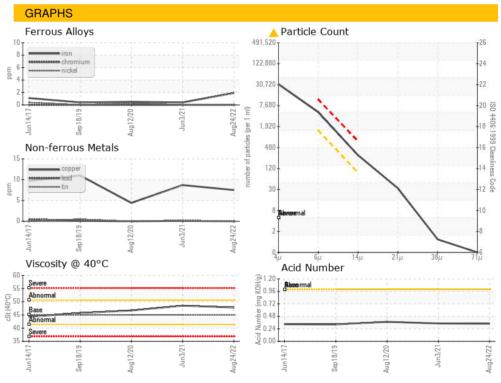
0.374



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	NONE	NONE	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	ΓIES	method	limit/base	current	history 1	history 2
Visc @ 40°C	cSt	ASTM D445	45	47.8	48.5	46.7
SAMPLE IMAGES	SAMPLE IMAGES		limit/base	current	history 1	history 2
Color						
Bottom						







Certificate L2367

Laboratory Sample No. Lab Number

Unique Number : 10124615

: KCP48116 : 05635085

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

: 06 Sep 2022

: 08 Sep 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)

FOUR SEASONS ENVIRONMENTAL

1600 CLIFTON RD ATLANTA, GA USA 30329

Contact: SERVICE MANAGER

T: F:

Contact/Location: SERVICE MANAGER ? - FOUATL