

PROBLEM SUMMARY

Sample Rating Trend

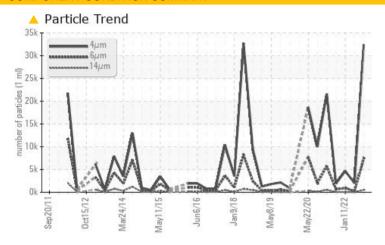
ISO

KAESER ASD 40 4018527 (S/N 1397)

Compressor

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

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	NORMAL	
Particles >6µm		ASTM D7647	>1300	△ 7322	269	881	
Particles >14µm		ASTM D7647	>80	470	24	37	
Particles >21µm		ASTM D7647	>20	4 98	8	7	
Particles >38µm		ASTM D7647	>4	<u>^</u> 8	0	0	
Oil Cleanliness		ISO 4406 (c)	>/17/13	22/20/16	15/12	17/12	
Debris	scalar	*Visual	NONE	MODER	NONE	NONE	

Customer Id: PERHOU Sample No.: KC91674 Lab Number: 05629652 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

31 Mar 2022 Diag: Don Baldridge

NORMAL



Resample at the next service interval to monitor. All component wear rates are normal. The amount and size of particulates present in the system are acceptable. There is no indication of any contamination in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

view report

11 Jan 2022 Diag: Don Baldridge

NORMAL



Resample at the next service interval to monitor. All component wear rates are normal. The amount and size of particulates present in the system are acceptable. There is no indication of any contamination in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

view report

09 Aug 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 component. The amount and size of particulates present in the system is acceptable. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.





OIL ANALYSIS REPORT

Sample Rating Trend



Machine Id

KAESER ASD 40 4018527 (S/N 1397)

Component

Compressor

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

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. 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.

		provide de la constante de la		n2016 Jan2018 May2019 May2020	Janzozz	
SAMPLE INFORM	MATION	method	limit/base	current	history 1	history 2
Sample Number				KC91674	KC103794	KC85687
Sample Date				16 Aug 2022	31 Mar 2022	11 Jan 2022
Machine Age	hrs			57616	55759	54774
Oil Age	hrs			6000	3000	3000
Oil Changed				Changed	Not Changd	Not Changd
Sample Status				ABNORMAL	NORMAL	NORMAL
WEAR METALS		method	limit/base	current	history 1	history 2
Iron	ppm	ASTM D5185m	>50	<1	<1	1
Chromium	ppm	ASTM D5185m	>10	0	<1	0
Nickel	ppm	ASTM D5185m	>3	0	0	0
Titanium	ppm	ASTM D5185m	>3	0	0	0
Silver	ppm	ASTM D5185m	>2	0	<1	<1
Aluminum	ppm	ASTM D5185m	>10	<1	2	2
Lead	ppm	ASTM D5185m	>10	0	0	0
Copper	ppm	ASTM D5185m	>50	12	6	5
Tin	ppm	ASTM D5185m	>10	0	<1	0
Antimony	ppm	ASTM D5185m				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	3
Barium	ppm	ASTM D5185m	90	<1	0	0
Molybdenum	ppm	ASTM D5185m		0	0	0
,		ASTM D5185m		0	<1	0
Manganese	ppm	ASTIVI DSTOSIII				
•	ppm	ASTM D5185m	90	0	19	25
Magnesium	ppm	ASTM D5185m		0		
Magnesium Calcium	ppm	ASTM D5185m ASTM D5185m		0	0	0
Magnesium Calcium Phosphorus	ppm	ASTM D5185m				
Magnesium Calcium Phosphorus	ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m		0	0	0
Magnesium Calcium Phosphorus Zinc CONTAMINANTS	ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	2	0 1 16 current	0 0 25	0 3 21
Magnesium Calcium Phosphorus Zinc CONTAMINANTS Silicon	ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m method ASTM D5185m	2 limit/base	0 1 16 current	0 0 25 history 1	0 3 21 history 2
Magnesium Calcium Phosphorus Zinc CONTAMINANTS Silicon Sodium	ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m method ASTM D5185m ASTM D5185m	limit/base >25	0 1 16 current 0	0 0 25 history 1 <1 3	0 3 21 history 2 <1 10
Magnesium Calcium Phosphorus Zinc CONTAMINANTS Silicon Sodium Potassium	ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m method ASTM D5185m ASTM D5185m ASTM D5185m	limit/base >25 >20	0 1 16 current 0 0	0 0 25 history 1 <1 3 2	0 3 21 history 2 <1 10 <1
Magnesium Calcium Phosphorus Zinc CONTAMINANTS Silicon Sodium Potassium Water	ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m method ASTM D5185m ASTM D5185m	limit/base >25	0 1 16 current 0	0 0 25 history 1 <1 3	0 3 21 history 2 <1 10
Magnesium Calcium Phosphorus Zinc CONTAMINANTS Silicon Sodium Potassium Water	ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m method ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	2 limit/base >25 >20 >0.05	0 1 16 current 0 0 0 0	0 0 25 history 1 <1 3 2 0.005	0 3 21 history 2 <1 10 <1 0.008
Magnesium Calcium Phosphorus Zinc CONTAMINANTS Silicon Sodium Potassium Water ppm Water FLUID CLEANLIN	ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m method ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D6304 ASTM D6304	2 limit/base >25 >20 >0.05 >500	0 1 16 current 0 0 0 0 0.009 92.3	0 0 25 history 1 <1 3 2 0.005 52.9	0 3 21 history 2 <1 10 <1 0.008 82.9
Magnesium Calcium Phosphorus Zinc CONTAMINANTS Silicon Sodium Potassium Water opm Water FLUID CLEANLIN Particles >4µm	ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m method ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D6304 ASTM D6304 method	2 limit/base >25 >20 >0.05 >500	0 1 16 current 0 0 0 0.009 92.3 current	0 0 25 history 1 <1 3 2 0.005 52.9 history 1	0 3 21 history 2 <1 10 <1 0.008 82.9 history 2
Magnesium Calcium Phosphorus Zinc CONTAMINANTS Silicon Sodium Potassium Water opm Water FLUID CLEANLIN Particles >4µm Particles >6µm	ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m method ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D6304 ASTM D6304 ASTM D6304 ASTM D6304	limit/base >25 >20 >0.05 >500 limit/base	0 1 16 current 0 0 0 0.009 92.3 current 32417	0 0 25 history 1 <1 3 2 0.005 52.9 history 1 1996	0 3 21 history 2 <1 10 <1 0.008 82.9 history 2 4648
Magnesium Calcium Phosphorus Zinc CONTAMINANTS Silicon Sodium Potassium Water ppm Water FLUID CLEANLIN Particles >4µm Particles >6µm Particles >14µm	ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m Method ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D6304 ASTM D6304 ASTM D6304 ASTM D7647 ASTM D7647 ASTM D7647	limit/base >25 >20 >0.05 >500 limit/base >1300	0 1 16 current 0 0 0 0.009 92.3 current 32417 △ 7322 △ 470	0 0 25 history 1 <1 3 2 0.005 52.9 history 1 1996 269	0 3 21 history 2 <1 10 <1 0.008 82.9 history 2 4648 881
Magnesium Calcium Phosphorus Zinc CONTAMINANTS Silicon Sodium Potassium Water ppm Water FLUID CLEANLIN Particles >4µm Particles >14µm Particles >21µm	ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m Method ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D6304 ASTM D6304 ASTM D6304 ASTM D7647 ASTM D7647	limit/base >25 >20 >0.05 >500 limit/base >1300 >80	0 1 16 current 0 0 0 0.009 92.3 current 32417 ↑ 7322	0 0 25 history 1 <1 3 2 0.005 52.9 history 1 1996 269 24	0 3 21 history 2 <1 10 <1 0.008 82.9 history 2 4648 881 37
Magnesium Calcium Phosphorus Zinc CONTAMINANTS Silicon Sodium Potassium Water ppm Water FLUID CLEANLIN Particles >4µm Particles >14µm Particles >21µm Particles >38µm	ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m method ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D6304 ASTM D6304 ASTM D6304 method ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647	2 limit/base >25	0 1 16 current 0 0 0 0.009 92.3 current 32417 ↑ 7322 ↑ 470 ↑ 98	0 0 25 history 1 <1 3 2 0.005 52.9 history 1 1996 269 24 8	0 3 21 history 2 <1 10 <1 0.008 82.9 history 2 4648 881 37 7 0
Silicon Sodium Potassium Water ppm Water	ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m Method ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D6304 ASTM D6304 ASTM D6304 ASTM D7647 ASTM D7647 ASTM D7647	2 limit/base >25	0 1 16 current 0 0 0 0.009 92.3 current 32417 ↑ 7322 ↑ 470 ↑ 98 ↑ 8	0 0 25 history 1 <1 3 2 0.005 52.9 history 1 1996 269 24 8 0	0 3 21 history 2 <1 10 <1 0.008 82.9 history 2 4648 881 37 7
Magnesium Calcium Phosphorus Zinc CONTAMINANTS Silicon Sodium Potassium Water ppm Water FLUID CLEANLIN Particles >4µm Particles >6µm Particles >21µm Particles >38µm Particles >71µm	ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m method ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D6304 ASTM D6304 ASTM D6304 method ASTM D7647	2 limit/base >25 >20 >0.05 >500 limit/base >1300 >80 >20 >4 >3	0 1 16 current 0 0 0 0.009 92.3 current 32417 △ 7322 △ 470 △ 98 △ 8 1	0 0 25 history 1 <1 3 2 0.005 52.9 history 1 1996 269 24 8 0	0 3 21 history 2 <1 10 <1 0.008 82.9 history 2 4648 881 37 7 0

Acid Number (AN)

mg KOH/g ASTM D8045 0.4

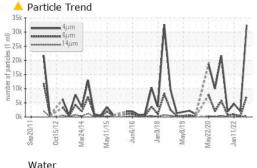
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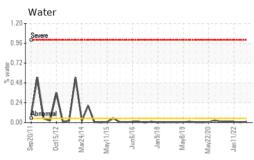
0.31

0.33

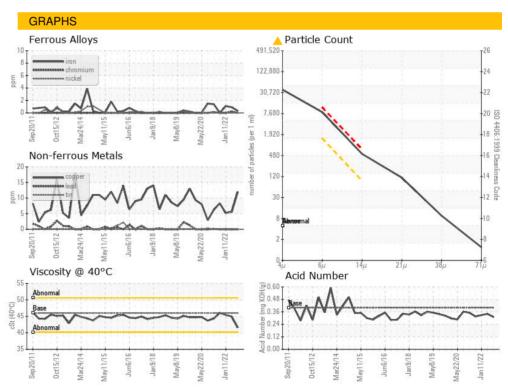


OIL ANALYSIS REPORT





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	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	TES	method	limit/base	current	history 1	history 2
Visc @ 40°C	cSt	ASTM D445	46	41.6	44.9	45.4
SAMPLE IMAGES	3	method	limit/base	current	history 1	history 2
Color						
					13	







Certificate L2367

Laboratory Sample No. Lab Number **Unique Number**

: KC91674 : 05629652 : 10114173 Test Package : IND 2

Bottom

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 29 Aug 2022 Diagnosed

: 31 Aug 2022 Diagnostician : Don Baldridge

PERRYMAN 213 VANDALE DR HOUSTON, PA USA 15342

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)

T:

F: