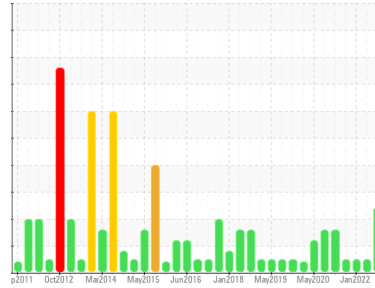
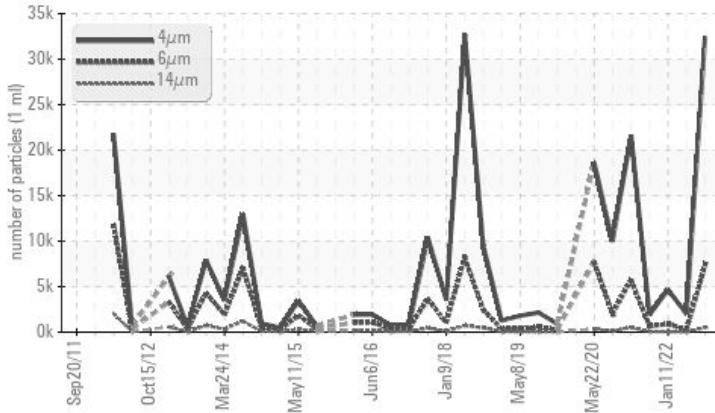


Machine Id  
**KAESER ASD 40 4018527 (S/N 1397)**  
Component  
**Compressor**  
Fluid  
**KAESER SIGMA (OEM) S-460 (--- QTS)**



## COMPONENT CONDITION SUMMARY

### ▲ Particle Trend



## 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	▲ <b>7322</b>	269	881
Particles >14µm	ASTM D7647	>80	▲ <b>470</b>	24	37
Particles >21µm	ASTM D7647	>20	▲ <b>98</b>	8	7
Particles >38µm	ASTM D7647	>4	▲ <b>8</b>	0	0
Oil Cleanliness	ISO 4406 (c)	>--/17/13	▲ <b>22/20/16</b>	15/12	17/12
Debris	scalar *Visual	NONE	▲ <b>MODER</b>	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 Baldrige +1  
[don.b505@comcast.net](mailto:don.b505@comcast.net)

To change component or sample information:  
Customer Service +1 1-800-237-1369  
[customerservice@wearcheck.com](mailto: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 Baldrige

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 Baldrige

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 Baldrige

NORMAL



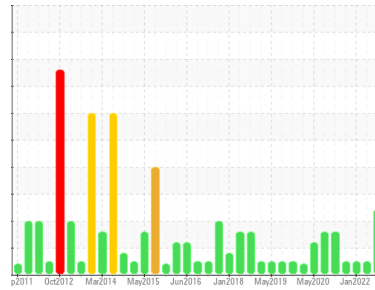
Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the component. The amount and size of particulates present in the system is acceptable. The AN level is acceptable for this fluid. The condition of the oil is suitable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

[view report](#)



Machine Id  
**KAESER ASD 40 4018527 (S/N 1397)**

Component  
**Compressor**  
Fluid  
**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.

## SAMPLE INFORMATION

	method	limit/base	current	history 1	history 2
Sample Number			<b>KC91674</b>	KC103794	KC85687
Sample Date			<b>16 Aug 2022</b>	31 Mar 2022	11 Jan 2022
Machine Age	hrs		<b>57616</b>	55759	54774
Oil Age	hrs		<b>6000</b>	3000	3000
Oil Changed			<b>Changed</b>	Not Changd	Not Changed
Sample Status			<b>ABNORMAL</b>	NORMAL	NORMAL

## WEAR METALS

	method	limit/base	current	history 1	history 2
Iron	ppm ASTM D5185m	>50	<b>&lt;1</b>	<1	1
Chromium	ppm ASTM D5185m	>10	<b>0</b>	<1	0
Nickel	ppm ASTM D5185m	>3	<b>0</b>	0	0
Titanium	ppm ASTM D5185m	>3	<b>0</b>	0	0
Silver	ppm ASTM D5185m	>2	<b>0</b>	<1	<1
Aluminum	ppm ASTM D5185m	>10	<b>&lt;1</b>	2	2
Lead	ppm ASTM D5185m	>10	<b>0</b>	0	0
Copper	ppm ASTM D5185m	>50	<b>12</b>	6	5
Tin	ppm ASTM D5185m	>10	<b>0</b>	<1	0
Antimony	ppm ASTM D5185m		<b>---</b>	---	0
Vanadium	ppm ASTM D5185m		<b>0</b>	0	0
Cadmium	ppm ASTM D5185m		<b>0</b>	0	0

## ADDITIVES

	method	limit/base	current	history 1	history 2
Boron	ppm ASTM D5185m		<b>0</b>	0	3
Barium	ppm ASTM D5185m	90	<b>&lt;1</b>	0	0
Molybdenum	ppm ASTM D5185m		<b>0</b>	0	0
Manganese	ppm ASTM D5185m		<b>0</b>	<1	0
Magnesium	ppm ASTM D5185m	90	<b>0</b>	19	25
Calcium	ppm ASTM D5185m	2	<b>0</b>	0	0
Phosphorus	ppm ASTM D5185m		<b>1</b>	0	3
Zinc	ppm ASTM D5185m		<b>16</b>	25	21

## CONTAMINANTS

	method	limit/base	current	history 1	history 2
Silicon	ppm ASTM D5185m	>25	<b>0</b>	<1	<1
Sodium	ppm ASTM D5185m		<b>0</b>	3	10
Potassium	ppm ASTM D5185m	>20	<b>0</b>	2	<1
Water	% ASTM D6304	>0.05	<b>0.009</b>	0.005	0.008
ppm Water	ppm ASTM D6304	>500	<b>92.3</b>	52.9	82.9

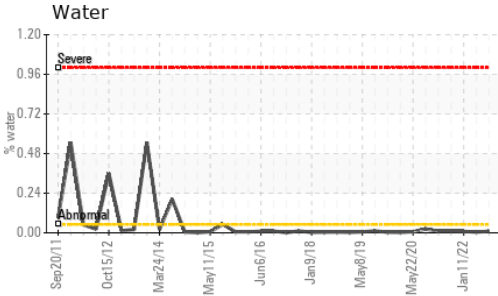
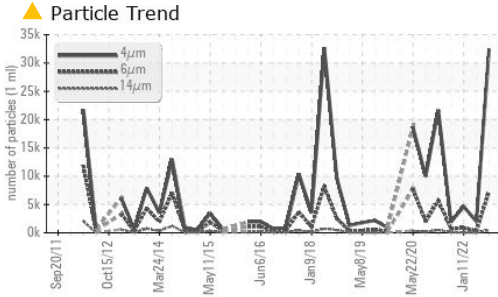
## FLUID CLEANLINESS

	method	limit/base	current	history 1	history 2
Particles >4µm	ASTM D7647		<b>32417</b>	1996	4648
Particles >6µm	ASTM D7647	>1300	<b>▲ 7322</b>	269	881
Particles >14µm	ASTM D7647	>80	<b>▲ 470</b>	24	37
Particles >21µm	ASTM D7647	>20	<b>▲ 98</b>	8	7
Particles >38µm	ASTM D7647	>4	<b>▲ 8</b>	0	0
Particles >71µm	ASTM D7647	>3	<b>1</b>	0	0
Oil Cleanliness	ISO 4406 (c)	>--/17/13	<b>▲ 22/20/16</b>	15/12	17/12

## FLUID DEGRADATION

	method	limit/base	current	history 1	history 2
Acid Number (AN)	mg KOH/g ASTM D8045	0.4	<b>0.31</b>	0.34	0.33

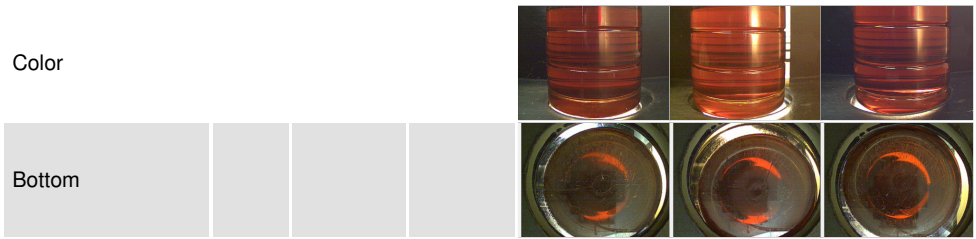
# OIL ANALYSIS REPORT



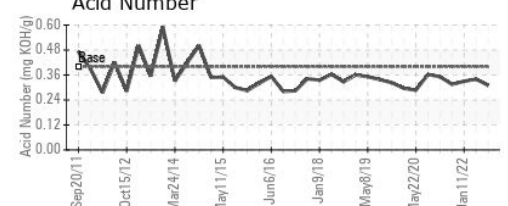
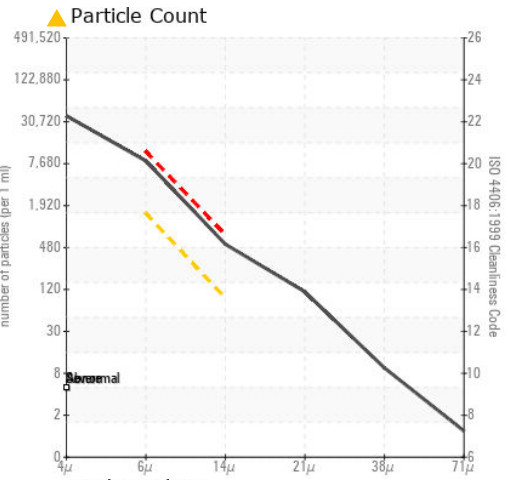
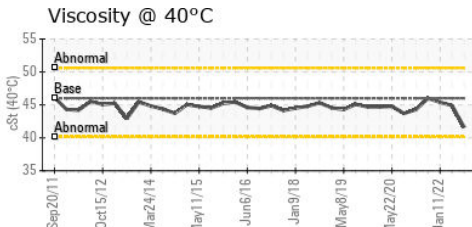
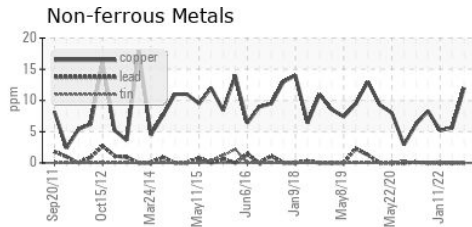
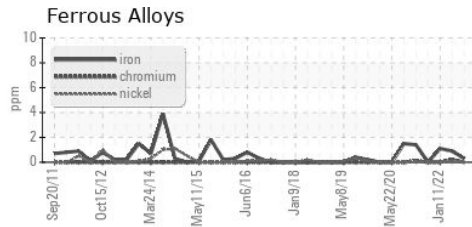
VISUAL	method	limit/base	current	history 1	history 2
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	▲ MODER	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.05	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG

FLUID PROPERTIES	method	limit/base	current	history 1	history 2
Visc @ 40°C	cSt	ASTM D445	46	41.6	44.9

SAMPLE IMAGES	method	limit/base	current	history 1	history 2
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## GRAPHS



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : KC91674  
**Lab Number** : 05629652  
**Unique Number** : 10114173  
**Test Package** : IND 2

**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: