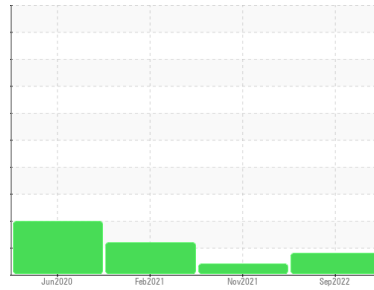


# PROBLEM SUMMARY

Sample Rating Trend



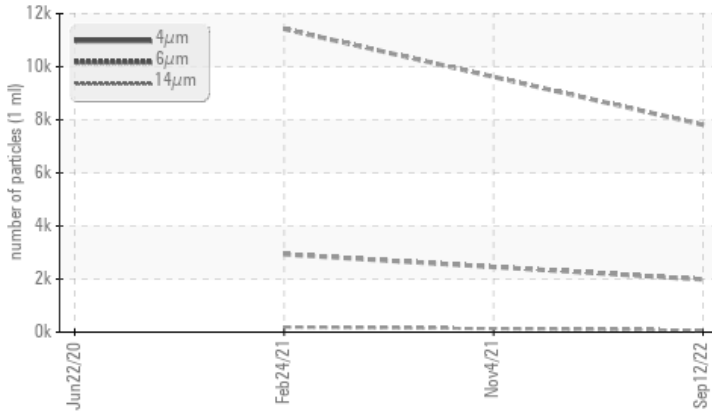
ISO



Machine Id  
**KAESER AS 30T 6348446 (S/N 1127)**  
Component  
**Compressor**  
Fluid  
**KAESER SIGMA (OEM) S-460 (--- QTS)**

## COMPONENT CONDITION SUMMARY

### ▲ Particle Trend



## RECOMMENDATION

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

## PROBLEMATIC TEST RESULTS

Sample Status		ATTENTION	ABNORMAL	ABNORMAL
Particles >6µm	ASTM D7647 >1300	▲ 1984	---	▲ 2929
Oil Cleanliness	ISO 4406 (c) >--/17/13	▲ 20/18/13	---	▲ 19/15

Customer Id: LINGRAKC  
Sample No.: KCP46303  
Lab Number: 05644268  
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

*There are no recommended actions for this sample.*

## HISTORICAL DIAGNOSIS

### 04 Nov 2021 Diag: Doug Bogart

#### VIS DEBRIS



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. 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 suitable for further service.

[view report](#)



### 24 Feb 2021 Diag: Don Baldrige

#### 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.

[view report](#)



### 22 Jun 2020 Diag: Don Baldrige

#### WATER



No corrective action is recommended at this time. 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. There is a trace of moisture present in the oil. Moderate concentration of visible dirt/debris present in the oil. The AN level is acceptable for this fluid.

[view report](#)



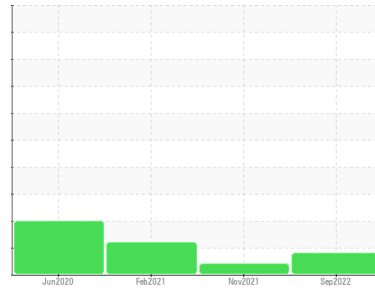
Machine Id  
**KAESER AS 30T 6348446 (S/N 1127)**

Component

**Compressor**

Fluid

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



## DIAGNOSIS

### ▲ Recommendation

The 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

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.

## SAMPLE INFORMATION

	method	limit/base	current	history 1	history 2
Sample Number			<b>KCP46303</b>	KCP43555	KCP27573
Sample Date			<b>12 Sep 2022</b>	04 Nov 2021	24 Feb 2021
Machine Age	hrs		<b>3610</b>	3020	5175
Oil Age	hrs		<b>1435</b>	3000	2200
Oil Changed			<b>Not Chngd</b>	Not Chngd	Changed
Sample Status			<b>ATTENTION</b>	ABNORMAL	ABNORMAL

## WEAR METALS

	method	limit/base	current	history 1	history 2
Iron	ppm	ASTM D5185m >50	<b>0</b>	<1	<1
Chromium	ppm	ASTM D5185m >10	<b>0</b>	0	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>	<1	0
Lead	ppm	ASTM D5185m >10	<b>0</b>	0	0
Copper	ppm	ASTM D5185m >50	<b>10</b>	6	13
Tin	ppm	ASTM D5185m >10	<b>0</b>	0	0
Antimony	ppm	ASTM D5185m	<b>---</b>	0	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>	<1	<1
Barium	ppm	ASTM D5185m 90	<b>&lt;1</b>	4	0
Molybdenum	ppm	ASTM D5185m	<b>0</b>	0	0
Manganese	ppm	ASTM D5185m	<b>0</b>	<1	<1
Magnesium	ppm	ASTM D5185m 90	<b>24</b>	45	33
Calcium	ppm	ASTM D5185m 2	<b>0</b>	<1	0
Phosphorus	ppm	ASTM D5185m	<b>4</b>	7	<1
Zinc	ppm	ASTM D5185m	<b>16</b>	<1	4
Sulfur	ppm	ASTM D5185m	<b>16396</b>	15466	15844

## CONTAMINANTS

	method	limit/base	current	history 1	history 2
Silicon	ppm	ASTM D5185m >25	<b>0</b>	0	<1
Sodium	ppm	ASTM D5185m	<b>16</b>	27	21
Potassium	ppm	ASTM D5185m >20	<b>0</b>	4	3
Water	%	ASTM D6304 >0.05	<b>0.020</b>	0.024	0.010
ppm Water	ppm	ASTM D6304 >500	<b>202.2</b>	241.8	108.1

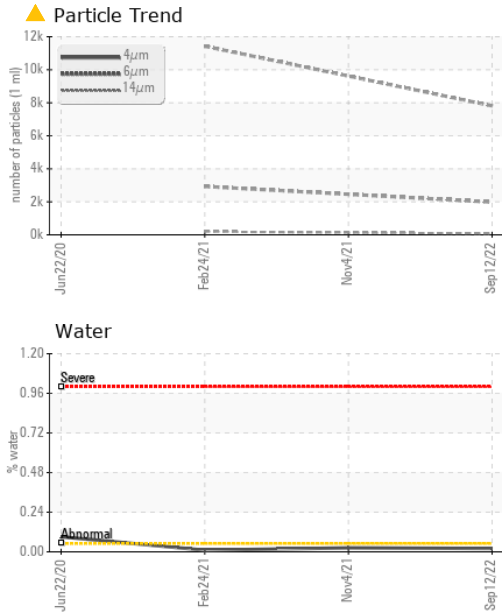
## FLUID CLEANLINESS

	method	limit/base	current	history 1	history 2
Particles >4µm	ASTM D7647		<b>7812</b>	---	11425
Particles >6µm	ASTM D7647 >1300		<b>▲ 1984</b>	---	▲ 2929
Particles >14µm	ASTM D7647 >80		<b>75</b>	---	▲ 190
Particles >21µm	ASTM D7647 >20		<b>13</b>	---	▲ 48
Particles >38µm	ASTM D7647 >4		<b>0</b>	---	1
Particles >71µm	ASTM D7647 >3		<b>0</b>	---	0
Oil Cleanliness	ISO 4406 (c) >--/17/13		<b>▲ 20/18/13</b>	---	▲ 19/15

## FLUID DEGRADATION

	method	limit/base	current	history 1	history 2
Acid Number (AN)	mg KOH/g	ASTM D8045 0.4	<b>0.25</b>	0.258	0.287

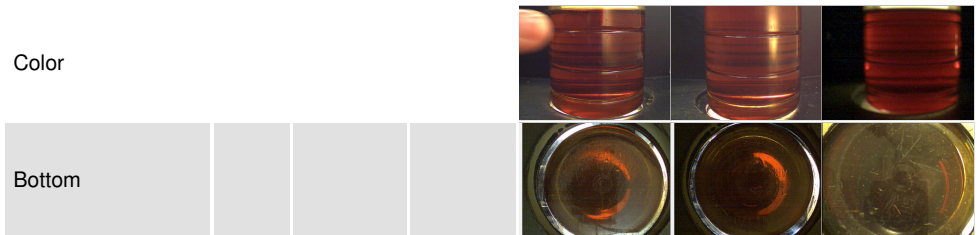
# OIL ANALYSIS REPORT



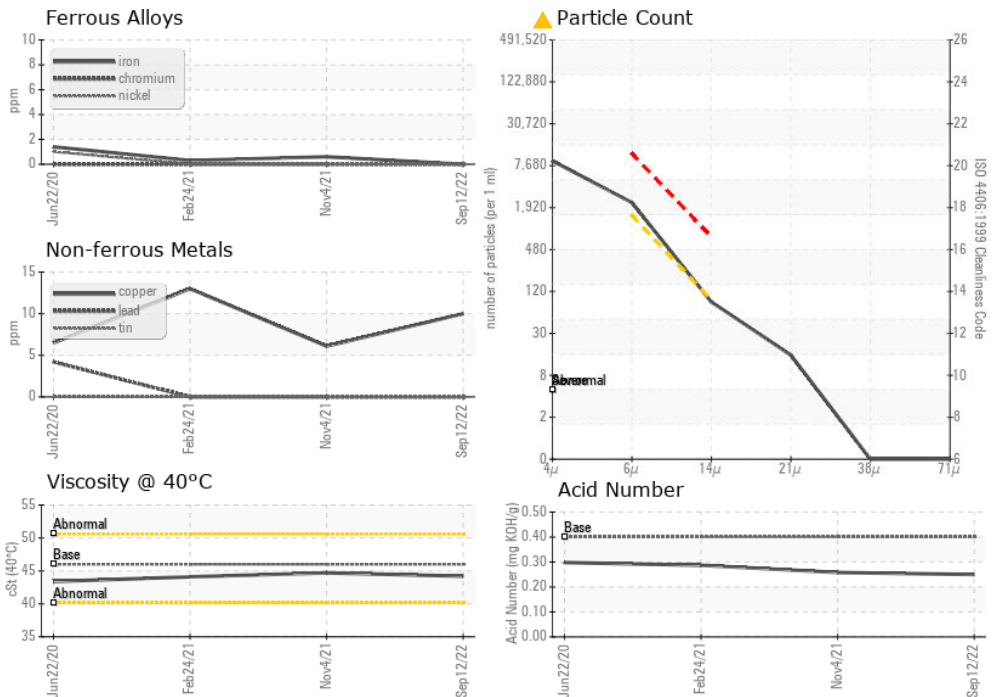
VISUAL	method	limit/base	current	history 1	history 2
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	<b>LIGHT</b>	▲ MODER
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE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

FLUID PROPERTIES	method	limit/base	current	history 1	history 2
Visc @ 40°C	cSt	ASTM D445 46	<b>44.2</b>	44.7	44.1

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



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : KCP46303 **Received** : 16 Sep 2022  
**Lab Number** : 05644268 **Diagnosed** : 20 Sep 2022  
**Unique Number** : 10138807 **Diagnostician** : Don Baldrige  
**Test Package** : IND 2 ( Additional Tests: KF, PrtCount )

**LINDLEY MILLS INC**  
 7763 LINDLEY MILLS RD  
 GRAHAM, NC  
 USA 27253  
 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)