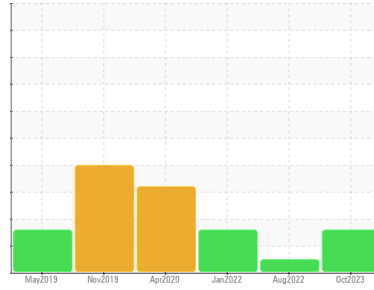




# PROBLEM SUMMARY

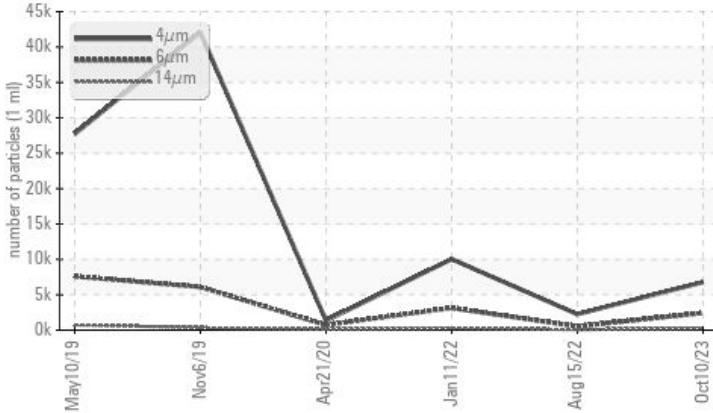
Sample Rating Trend



Machine Id  
**KAESER AS 25 4384225 (S/N 1027)**  
 Component  
**Compressor**  
 Fluid  
**KAESER SIGMA (OEM) M-460 (--- GAL)**

## COMPONENT CONDITION SUMMARY

▲ Particle Trend



## RECOMMENDATION

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.

## PROBLEMATIC TEST RESULTS

Sample Status			ABNORMAL	NORMAL	ABNORMAL
Particles >6µm	ASTM D7647	>1300	▲ 2435	538	▲ 3131
Particles >14µm	ASTM D7647	>80	▲ 265	60	▲ 267
Particles >21µm	ASTM D7647	>20	▲ 75	19	▲ 62
Oil Cleanliness	ISO 4406 (c)	>--/17/13	▲ 20/18/15	18/16/13	▲ 19/15

Customer Id: CONRAL  
 Sample No.: KCPA006911  
 Lab Number: 05980404  
 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

### 15 Aug 2022 Diag: Jonathan Hester

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.

view report



### 11 Jan 2022 Diag: Don Baldrige

ISO



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. 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



### 21 Apr 2020 Diag: Angela Borella

WATER



The filter change at the time of sampling has been noted. We recommend an early resample in 500 hours to monitor this condition. All component wear rates are normal. There is a moderate amount of particulates present in the oil. There is a light concentration of water present in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

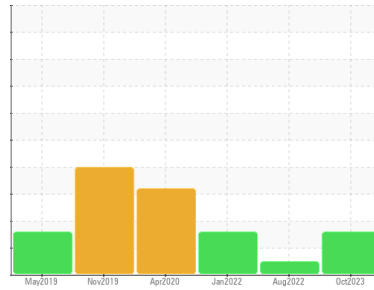
view report





# OIL ANALYSIS REPORT

Sample Rating Trend



ISO



Machine Id  
**KAESER AS 25 4384225 (S/N 1027)**

Component  
**Compressor**  
Fluid  
**KAESER SIGMA (OEM) M-460 (--- GAL)**

## DIAGNOSIS

### Recommendation

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.

### 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.

## SAMPLE INFORMATION

method	limit/base	current	history1	history2
Sample Number	Client Info	<b>KCPA006911</b>	KCP49330	KCP48543
Sample Date	Client Info	<b>10 Oct 2023</b>	15 Aug 2022	11 Jan 2022
Machine Age	hrs	<b>29586</b>	26543	25063
Oil Age	hrs	<b>0</b>	1480	2951
Oil Changed	Client Info	<b>N/A</b>	Changed	Changed
Sample Status		<b>ABNORMAL</b>	NORMAL	ABNORMAL

## WEAR METALS

method	limit/base	current	history1	history2
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>&lt;1</b>	0	0
Titanium	ppm ASTM D5185m >3	<b>0</b>	0	0
Silver	ppm ASTM D5185m >2	<b>&lt;1</b>	0	0
Aluminum	ppm ASTM D5185m >10	<b>&lt;1</b>	<1	<1
Lead	ppm ASTM D5185m >10	<b>0</b>	<1	<1
Copper	ppm ASTM D5185m >50	<b>3</b>	6	8
Tin	ppm ASTM D5185m >10	<b>&lt;1</b>	0	<1
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	history1	history2
Boron	ppm ASTM D5185m 0	<b>0</b>	1	0
Barium	ppm ASTM D5185m 90	<b>0</b>	0	0
Molybdenum	ppm ASTM D5185m 0	<b>0</b>	0	0
Manganese	ppm ASTM D5185m	<b>&lt;1</b>	0	0
Magnesium	ppm ASTM D5185m 100	<b>18</b>	23	14
Calcium	ppm ASTM D5185m 0	<b>1</b>	0	0
Phosphorus	ppm ASTM D5185m 0	<b>&lt;1</b>	2	4
Zinc	ppm ASTM D5185m 0	<b>63</b>	70	59
Sulfur	ppm ASTM D5185m 23500	<b>21187</b>	19060	17982

## CONTAMINANTS

method	limit/base	current	history1	history2
Silicon	ppm ASTM D5185m >25	<b>0</b>	<1	0
Sodium	ppm ASTM D5185m	<b>&lt;1</b>	6	3
Potassium	ppm ASTM D5185m >20	<b>1</b>	<1	0
Water	% ASTM D6304 >0.05	<b>0.007</b>	0.013	0.005
ppm Water	ppm ASTM D6304 >500	<b>75.2</b>	137.0	50.2

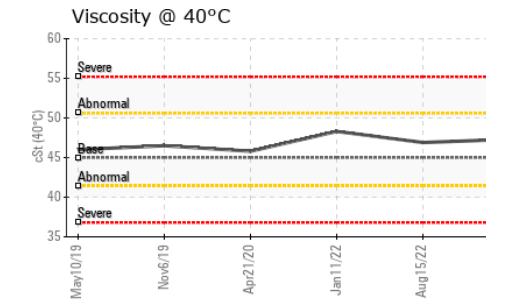
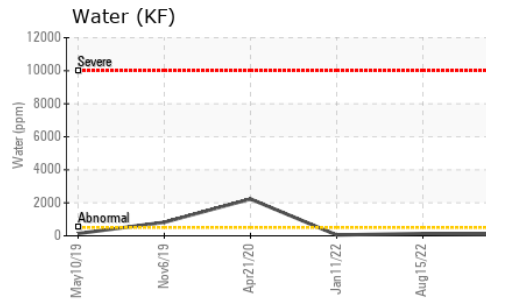
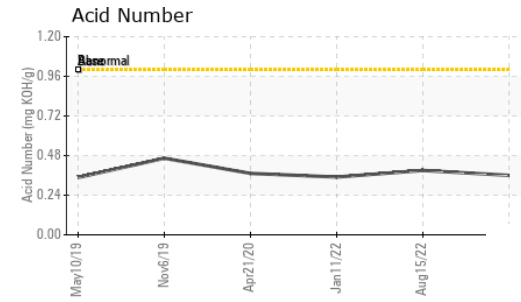
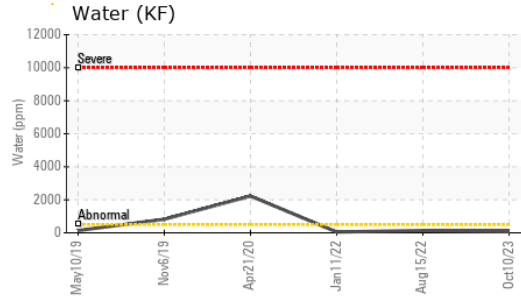
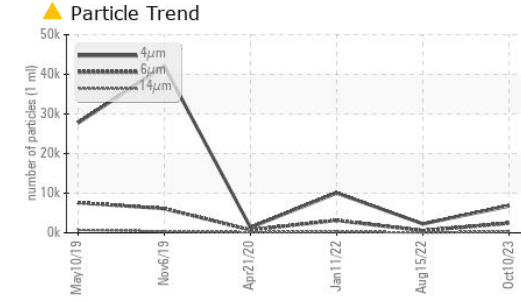
## FLUID CLEANLINESS

method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	<b>6787</b>	2247	10039
Particles >6µm	ASTM D7647 >1300	<b>▲ 2435</b>	538	▲ 3131
Particles >14µm	ASTM D7647 >80	<b>▲ 265</b>	60	▲ 267
Particles >21µm	ASTM D7647 >20	<b>▲ 75</b>	19	▲ 62
Particles >38µm	ASTM D7647 >4	<b>2</b>	1	▲ 6
Particles >71µm	ASTM D7647 >3	<b>0</b>	0	0
Oil Cleanliness	ISO 4406 (c) >--/17/13	<b>▲ 20/18/15</b>	18/16/13	▲ 19/15

## FLUID DEGRADATION

method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g ASTM D8045 1.0	<b>0.36</b>	0.39	0.35

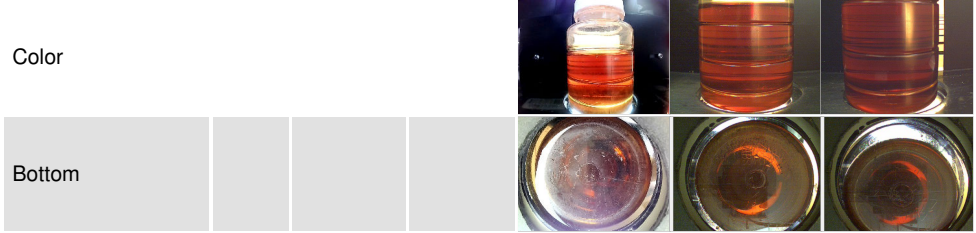
# OIL ANALYSIS REPORT



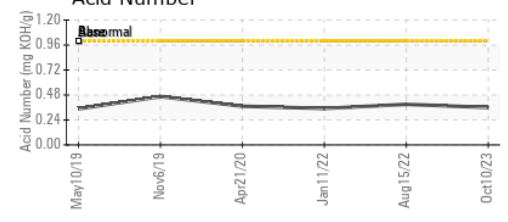
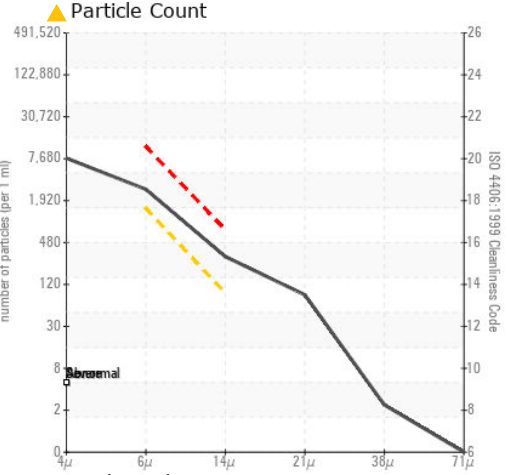
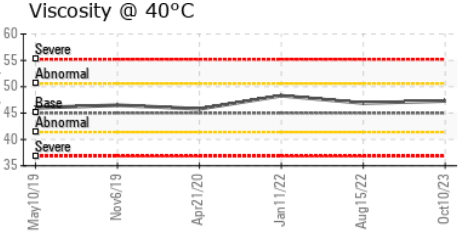
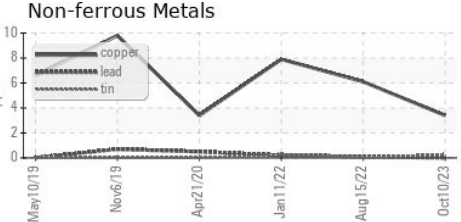
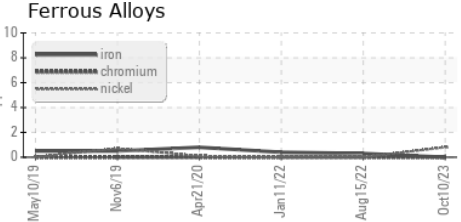
PARAMETER	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	LIGHT
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance	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	history1	history2
Visc @ 40°C	cSt	ASTM D445	45	47.3	46.9

SAMPLE IMAGES	method	limit/base	current	history1	history2
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## GRAPHS



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : KCPA006911 **Received** : 16 Oct 2023  
**Lab Number** : 05980404 **Diagnosed** : 18 Oct 2023  
**Unique Number** : 10697699 **Diagnostician** : Don Baldrige  
**Test Package** : IND 2 ( Additional Tests: KF, PrtCount )

**CONTECH CONSTRUCTION PRODUCTS INC**  
 6115 CHAPEL HILL RD.  
 RALEIGH, NC  
 US 27607  
 Contact: D. CLEMENTS  
 dclements@contechcs.com  
 T:  
 F:

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)