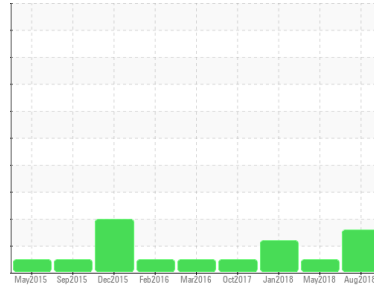




# PROBLEM SUMMARY

## Sample Rating Trend

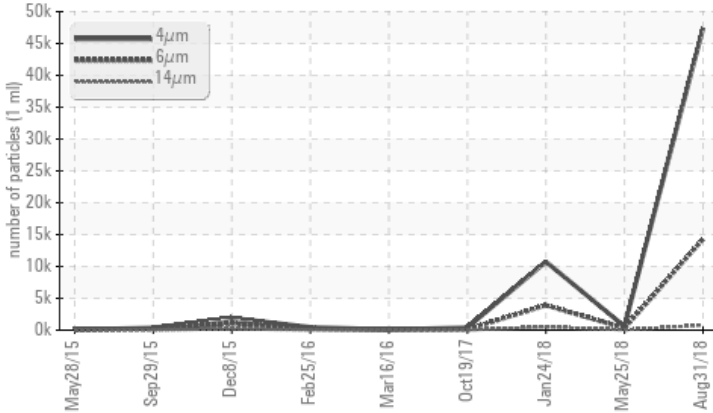
ISO



Machine Id  
**KAESER C-1R (S/N 1022)**  
 Component  
**Compressor**  
 Fluid  
**KAESER SIGMA (OEM) S-460 (--- GAL)**

## COMPONENT CONDITION SUMMARY

### ▲ Particle Trend



## RECOMMENDATION

We recommend you service the filters on this component. Resample at the next service interval to monitor.

## PROBLEMATIC TEST RESULTS

Sample Status			ABNORMAL	NORMAL	ABNORMAL
Particles >6µm	ASTM D7647	>1300	▲ 14301	321	▲ 3906
Particles >14µm	ASTM D7647	>80	▲ 767	54	▲ 509
Particles >21µm	ASTM D7647	>20	▲ 158	18	▲ 118
Particles >38µm	ASTM D7647	>4	▲ 5	2	4
Oil Cleanliness	ISO 4406 (c)	>--/17/13	▲ 23/21/17	16/16/13	▲ 21/19/16

Customer Id: WESLONWC  
 Sample No.: WCI2313845  
 Lab Number: 04555177  
 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 Filter	MISSED	Feb 04 2019	?	We recommend you service the filters on this component.

## HISTORICAL DIAGNOSIS

### 25 May 2018 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



### 24 Jan 2018 Diag: Don Baldrige

ISO



We recommend you service the filters on this component. 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



### 19 Oct 2017 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.

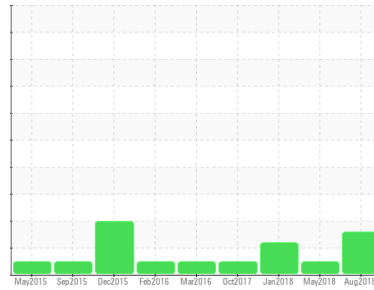
view report





# OIL ANALYSIS REPORT

Sample Rating Trend



ISO



Machine Id  
**KAESER C-1R (S/N 1022)**  
 Component  
**Compressor**  
 Fluid  
**KAESER SIGMA (OEM) S-460 (--- GAL)**

## DIAGNOSIS

### Recommendation

We recommend you service the filters on this component. 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	history 1	history 2
Sample Number	Client Info	<b>WCI2313845</b>	WCI2333183	WCI2327649
Sample Date	Client Info	<b>31 Aug 2018</b>	25 May 2018	24 Jan 2018
Machine Age	hrs	<b>35179</b>	33467	31658
Oil Age	hrs	<b>0</b>	0	0
Oil Changed	Client Info	<b>N/A</b>	N/A	N/A
Sample Status		<b>ABNORMAL</b>	NORMAL	ABNORMAL

## WEAR METALS

method	limit/base	current	history 1	history 2
Iron	ppm	ASTM D5185m >50	<1	<1
Chromium	ppm	ASTM D5185m >10	0	0
Nickel	ppm	ASTM D5185m >3	<1	0
Titanium	ppm	ASTM D5185m >3	0	0
Silver	ppm	ASTM D5185m >2	0	0
Aluminum	ppm	ASTM D5185m >10	0	<1
Lead	ppm	ASTM D5185m >10	0	<1
Copper	ppm	ASTM D5185m >50	8	5
Tin	ppm	ASTM D5185m >10	<1	0
Antimony	ppm	ASTM D5185m	<1	0
Vanadium	ppm	ASTM D5185m	0	0
Cadmium	ppm	ASTM D5185m	0	0

## ADDITIVES

method	limit/base	current	history 1	history 2
Boron	ppm	ASTM D5185m	0	1
Barium	ppm	ASTM D5185m 90	1	19
Molybdenum	ppm	ASTM D5185m	<1	0
Manganese	ppm	ASTM D5185m	0	<1
Magnesium	ppm	ASTM D5185m 90	<1	20
Calcium	ppm	ASTM D5185m 2	<1	0
Phosphorus	ppm	ASTM D5185m	2	47
Zinc	ppm	ASTM D5185m	<1	0
Sulfur	ppm	ASTM D5185m	<b>14138</b>	5847

## CONTAMINANTS

method	limit/base	current	history 1	history 2
Silicon	ppm	ASTM D5185m >25	<1	1
Sodium	ppm	ASTM D5185m	0	2
Potassium	ppm	ASTM D5185m >20	<1	<1

## FLUID CLEANLINESS

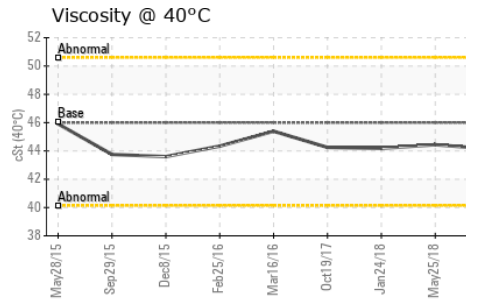
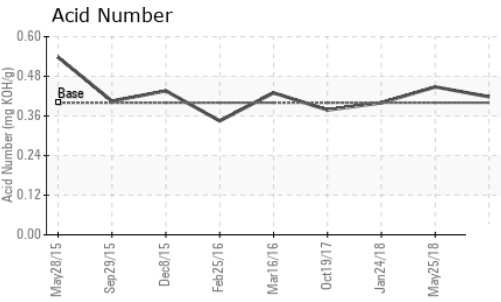
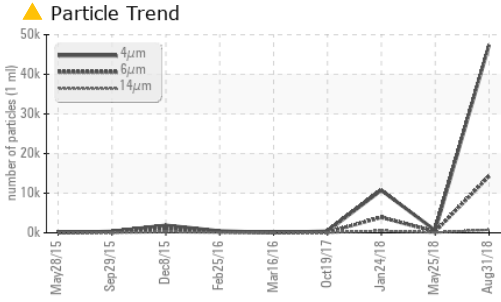
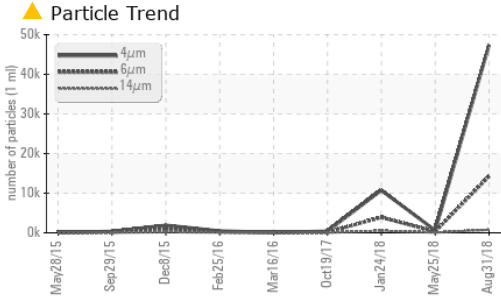
method	limit/base	current	history 1	history 2
Particles >4µm	ASTM D7647	<b>47376</b>	589	10741
Particles >6µm	ASTM D7647 >1300	<b>▲ 14301</b>	321	▲ 3906
Particles >14µm	ASTM D7647 >80	<b>▲ 767</b>	54	▲ 509
Particles >21µm	ASTM D7647 >20	<b>▲ 158</b>	18	▲ 118
Particles >38µm	ASTM D7647 >4	<b>▲ 5</b>	2	4
Particles >71µm	ASTM D7647 >3	<b>0</b>	0	0
Oil Cleanliness	ISO 4406 (c) >--/17/13	<b>▲ 23/21/17</b>	16/16/13	▲ 21/19/16

## FLUID DEGRADATION

method	limit/base	current	history 1	history 2
Acid Number (AN)	mg KOH/g	ASTM D8045 0.4	<b>0.418</b>	0.448



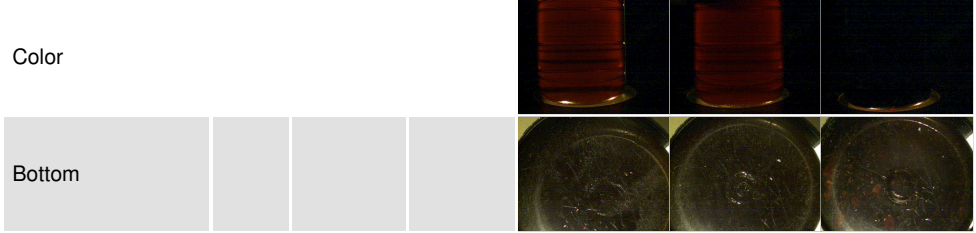
# OIL ANALYSIS REPORT



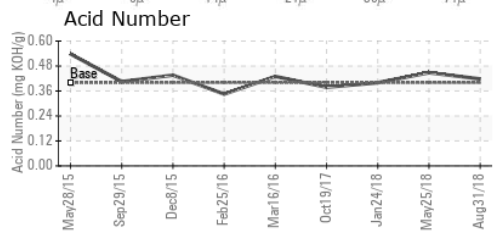
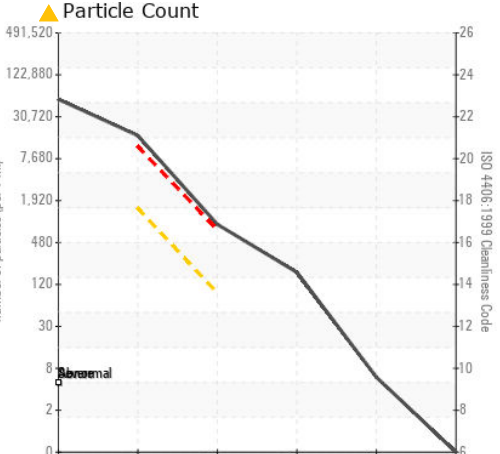
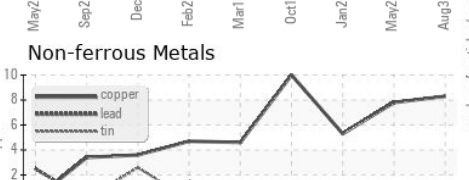
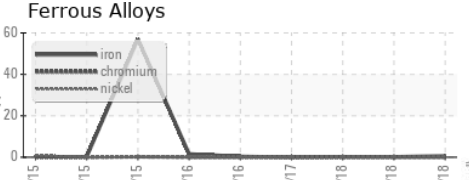
VISUAL	method	limit/base	current	history 1	history 2
White Metal	scalar	*Visual	NONE	NONE	LIGHT
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	LIGHT	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance	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	44.14	44.18

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.** : WC12313845 **Received** : 20 Sep 2018  
**Lab Number** : 04555177 **Diagnosed** : 21 Sep 2018  
**Unique Number** : 8339035 **Diagnostician** : Don Baldridge  
**Test Package** : IND 2 ( Additional Tests: PrtCount )

**WESTLAKE CHEMICAL**  
 2290 CALLAHAN RD  
 LONGVIEW, TX  
 US 75607  
 Contact: ROB WALLIN  
 rwallin@westlake.com  
 T: (903)242-7576  
 F: (903)758-9521

Certificate L2367  
 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)