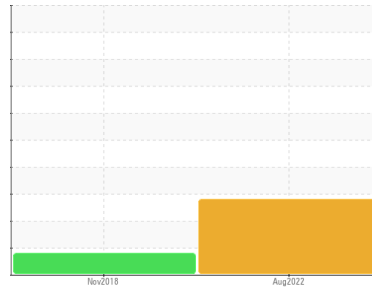


# PROBLEM SUMMARY

Sample Rating Trend



**WEAR**



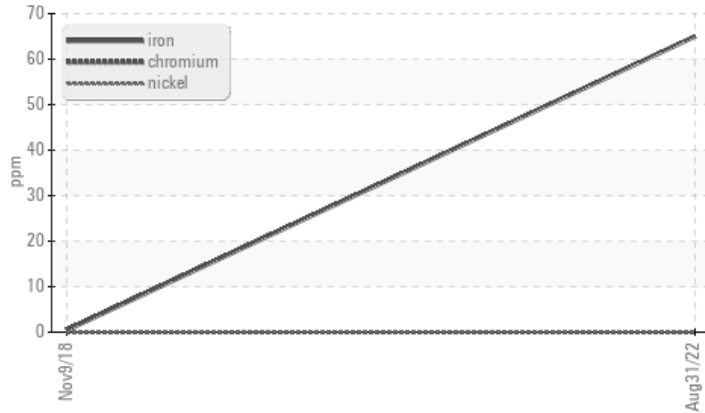
Machine Id  
**KAESER SK 20 4910678 (S/N 1379)**

Component  
**Compressor**

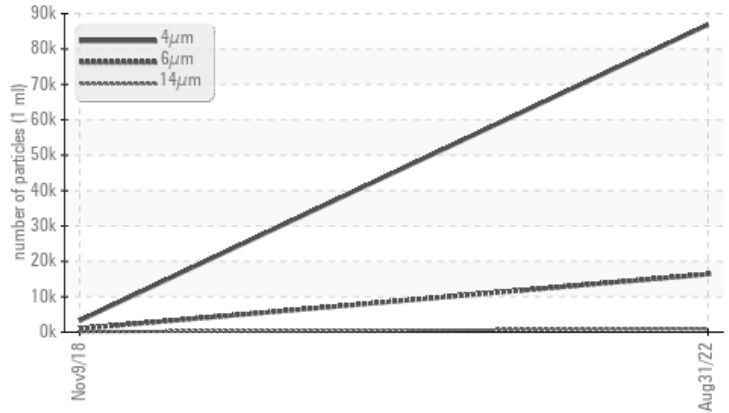
Fluid  
**KAESER SIGMA (OEM) M-460 (--- GAL)**

## COMPONENT CONDITION SUMMARY

▲ Ferrous Alloys



▲ 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	Unit	ASTM	Value	ABNORMAL	ATTENTION	---
Iron	ppm	ASTM D5185m	>50	▲ 65	<1	---
Particles >6µm		ASTM D7647	>1300	▲ 16358	994	---
Particles >14µm		ASTM D7647	>80	▲ 916	▲ 104	---
Particles >21µm		ASTM D7647	>20	▲ 156	▲ 35	---
Particles >38µm		ASTM D7647	>4	▲ 9	3	---
Oil Cleanliness		ISO 4406 (c)	>--/17/13	▲ 24/21/17	▲ 17/14	---

Customer Id: SOUCHATEN  
Sample No.: KCP31942  
Lab Number: 05635084  
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

**09 Nov 2018 Diag: Angela Borella**

ISO



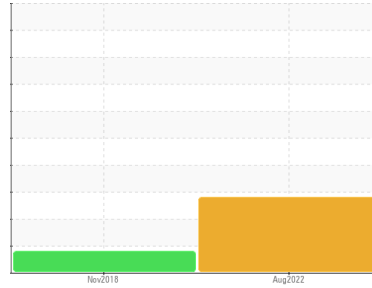
The oil change at the time of sampling has been noted. Resample at the next service interval to monitor. All component wear rates are normal. There is a moderate amount of particulates present in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

view report



# OIL ANALYSIS REPORT

## Sample Rating Trend



**WEAR**



Machine Id  
**KAESER SK 20 4910678 (S/N 1379)**

Component  
**Compressor**

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

### 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

The iron level is abnormal. All other 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			<b>KCP31942</b>	KCP13963	---
Sample Date			<b>31 Aug 2022</b>	09 Nov 2018	---
Machine Age	hrs		<b>4104</b>	2325	---
Oil Age	hrs		<b>1779</b>	675	---
Oil Changed			<b>Changed</b>	Changed	---
Sample Status			<b>ABNORMAL</b>	ATTENTION	---

### WEAR METALS

	method	limit/base	current	history 1	history 2
Iron	ppm ASTM D5185m	>50	<b>▲ 65</b>	<1	---
Chromium	ppm ASTM D5185m	>10	<b>0</b>	0	---
Nickel	ppm ASTM D5185m	>3	<b>0</b>	0	---
Titanium	ppm ASTM D5185m	>3	<b>0</b>	0	---
Silver	ppm ASTM D5185m	>2	<b>0</b>	0	---
Aluminum	ppm ASTM D5185m	>10	<b>1</b>	<1	---
Lead	ppm ASTM D5185m	>10	<b>0</b>	0	---
Copper	ppm ASTM D5185m	>50	<b>21</b>	4	---
Tin	ppm ASTM D5185m	>10	<b>0</b>	0	---
Antimony	ppm ASTM D5185m		<b>---</b>	0	---
Vanadium	ppm ASTM D5185m		<b>0</b>	0	---
Cadmium	ppm ASTM D5185m		<b>0</b>	0	---

### ADDITIVES

	method	limit/base	current	history 1	history 2
Boron	ppm ASTM D5185m	0	<b>0</b>	<1	---
Barium	ppm ASTM D5185m	90	<b>0</b>	0	---
Molybdenum	ppm ASTM D5185m	0	<b>0</b>	0	---
Manganese	ppm ASTM D5185m		<b>&lt;1</b>	<1	---
Magnesium	ppm ASTM D5185m	100	<b>7</b>	46	---
Calcium	ppm ASTM D5185m	0	<b>0</b>	<1	---
Phosphorus	ppm ASTM D5185m	0	<b>&lt;1</b>	<1	---
Zinc	ppm ASTM D5185m	0	<b>91</b>	11	---
Sulfur	ppm ASTM D5185m	23500	<b>16478</b>	22708	---

### CONTAMINANTS

	method	limit/base	current	history 1	history 2
Silicon	ppm ASTM D5185m	>25	<b>1</b>	0	---
Sodium	ppm ASTM D5185m		<b>6</b>	16	---
Potassium	ppm ASTM D5185m	>20	<b>0</b>	2	---
Water	% ASTM D6304	>0.05	<b>0.019</b>	0.025	---
ppm Water	ppm ASTM D6304	>500	<b>196.4</b>	250	---

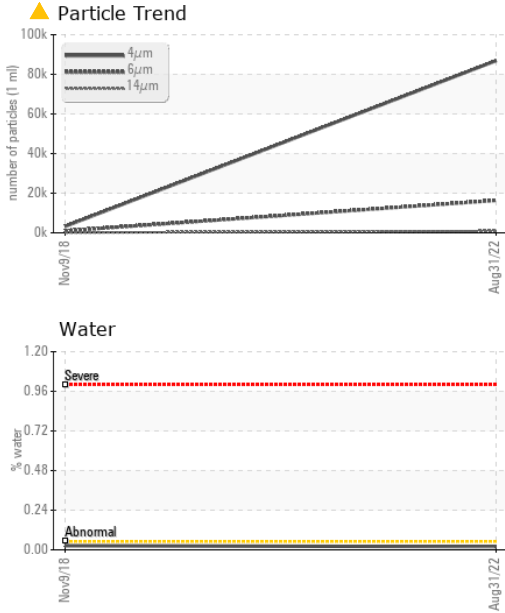
### FLUID CLEANLINESS

	method	limit/base	current	history 1	history 2
Particles >4µm	ASTM D7647		<b>86902</b>	3251	---
Particles >6µm	ASTM D7647	>1300	<b>▲ 16358</b>	994	---
Particles >14µm	ASTM D7647	>80	<b>▲ 916</b>	▲ 104	---
Particles >21µm	ASTM D7647	>20	<b>▲ 156</b>	▲ 35	---
Particles >38µm	ASTM D7647	>4	<b>▲ 9</b>	3	---
Particles >71µm	ASTM D7647	>3	<b>1</b>	0	---
Oil Cleanliness	ISO 4406 (c)	>--/17/13	<b>▲ 24/21/17</b>	▲ 17/14	---

### FLUID DEGRADATION

	method	limit/base	current	history 1	history 2
Acid Number (AN)	mg KOH/g ASTM D8045	1.0	<b>0.34</b>	0.359	---

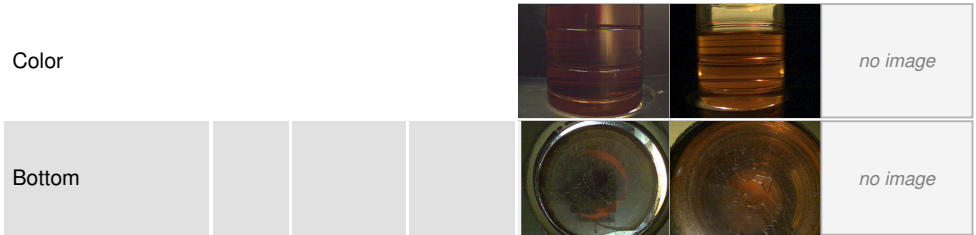
# OIL ANALYSIS REPORT



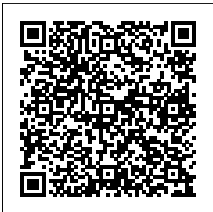
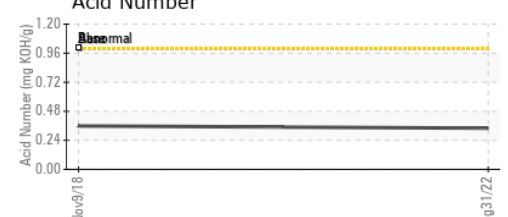
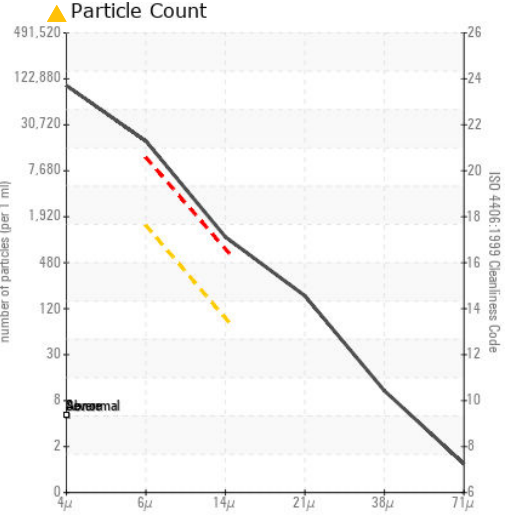
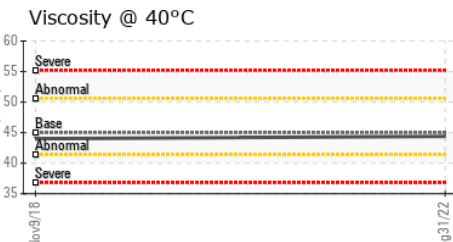
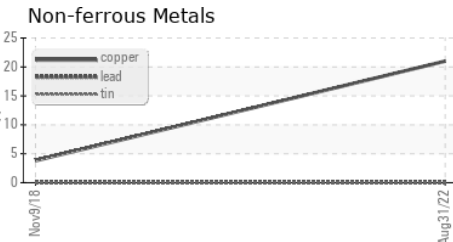
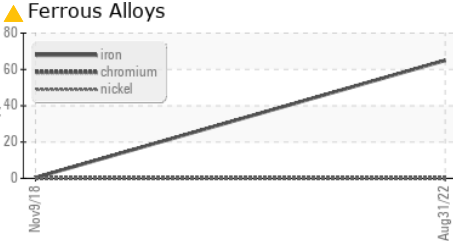
VISUAL	method	limit/base	current	history 1	history 2
White Metal	scalar	*Visual	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	---
Precipitate	scalar	*Visual	NONE	NONE	---
Silt	scalar	*Visual	NONE	NONE	---
Debris	scalar	*Visual	NONE	LIGHT	VLITE
Sand/Dirt	scalar	*Visual	NONE	NONE	---
Appearance	scalar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

FLUID PROPERTIES	method	limit/base	current	history 1	history 2
Visc @ 40°C	cSt	ASTM D445	45	44.01	---

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.** : KCP31942 **Received** : 06 Sep 2022  
**Lab Number** : 05635084 **Diagnosed** : 08 Sep 2022  
**Unique Number** : 10124614 **Diagnostician** : Don Baldrige  
**Test Package** : IND 2 ( Additional Tests: KF, PrtCount )

**SOUTHEAST MAHINDRA**  
 6 RIVERSIDE LN  
 CHATTANOOGA, TN  
 USA 37406  
 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: