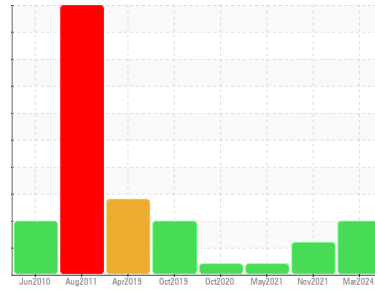


# OIL ANALYSIS REPORT

Sample Rating Trend



ISO



Machine Id  
**KAESER 3578271 (S/N 1172)**

Component  
**Compressor**

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

## DIAGNOSIS

### Recommendation

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.

### 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>KCPA015933</b>	KCP39844	KCP32016
Sample Date	Client Info		<b>20 Mar 2024</b>	29 Nov 2021	10 May 2021
Machine Age	hrs	Client Info	<b>24153</b>	20707	19651
Oil Age	hrs	Client Info	<b>1789</b>	1588	532
Oil Changed	Client Info		<b>Changed</b>	N/A	Not Changd
Sample Status			<b>ABNORMAL</b>	ABNORMAL	ABNORMAL

## WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >50	<b>0</b>	<1	0
Chromium	ppm	ASTM D5185m >10	<b>0</b>	0	0
Nickel	ppm	ASTM D5185m >3	<b>0</b>	0	<1
Titanium	ppm	ASTM D5185m >3	<b>0</b>	0	0
Silver	ppm	ASTM D5185m >2	<b>0</b>	0	<1
Aluminum	ppm	ASTM D5185m >10	<b>&lt;1</b>	0	1
Lead	ppm	ASTM D5185m >10	<b>0</b>	0	<1
Copper	ppm	ASTM D5185m >50	<b>9</b>	12	5
Tin	ppm	ASTM D5185m >10	<b>0</b>	0	0
Antimony	ppm	ASTM D5185m	<b>---</b>	0	0
Vanadium	ppm	ASTM D5185m	<b>&lt;1</b>	0	0
Cadmium	ppm	ASTM D5185m	<b>0</b>	0	0

## ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	<b>0</b>	15	<1
Barium	ppm	ASTM D5185m 90	<b>0</b>	0	7
Molybdenum	ppm	ASTM D5185m	<b>0</b>	0	0
Manganese	ppm	ASTM D5185m	<b>0</b>	0	<1
Magnesium	ppm	ASTM D5185m 90	<b>16</b>	27	65
Calcium	ppm	ASTM D5185m 2	<b>5</b>	<1	0
Phosphorus	ppm	ASTM D5185m	<b>1</b>	0	16
Zinc	ppm	ASTM D5185m	<b>58</b>	78	17
Sulfur	ppm	ASTM D5185m	<b>19195</b>	15068	16836

## CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >25	<b>&lt;1</b>	<1	0
Sodium	ppm	ASTM D5185m	<b>8</b>	12	12
Potassium	ppm	ASTM D5185m >20	<b>&lt;1</b>	1	2
Water	%	ASTM D6304 >0.05	<b>0.016</b>	0.013	0.024
ppm Water	ppm	ASTM D6304 >500	<b>166</b>	130.1	240.4

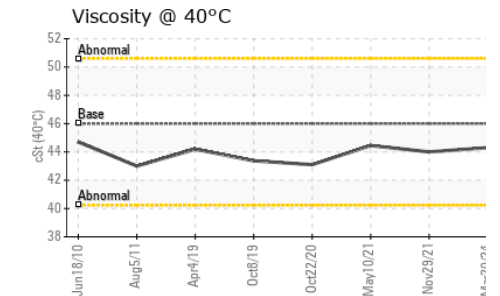
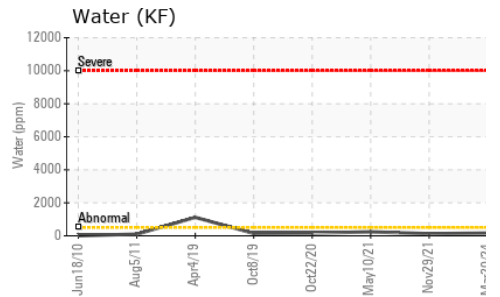
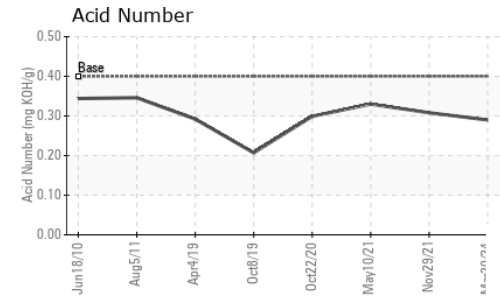
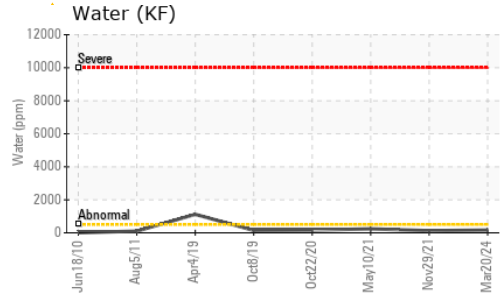
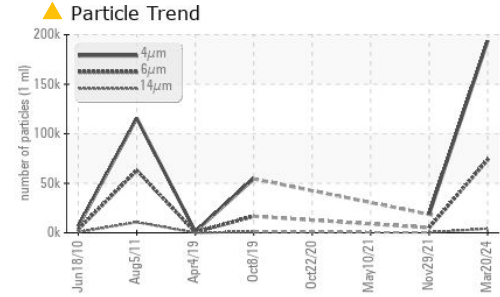
## FLUID CLEANLINESS

	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647		<b>193660</b>	18594	---
Particles >6µm	ASTM D7647 >1300		<b>▲ 73679</b>	▲ 5086	---
Particles >14µm	ASTM D7647 >80		<b>▲ 4189</b>	▲ 321	---
Particles >21µm	ASTM D7647 >20		<b>▲ 880</b>	▲ 45	---
Particles >38µm	ASTM D7647 >4		<b>▲ 21</b>	1	---
Particles >71µm	ASTM D7647 >3		<b>1</b>	0	---
Oil Cleanliness	ISO 4406 (c) >--/17/13		<b>▲ 25/23/19</b>	▲ 20/16	---

## FLUID DEGRADATION

	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045 0.4	<b>0.29</b>	0.308	0.330

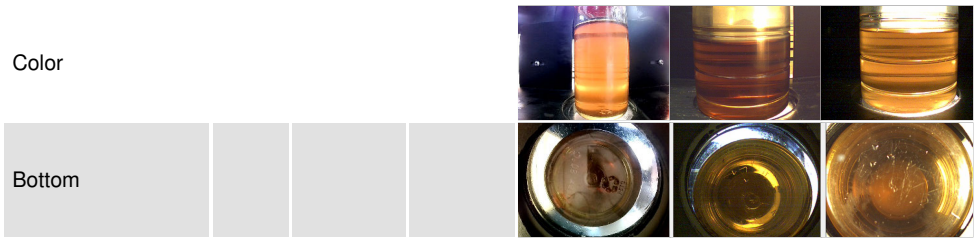
# OIL ANALYSIS REPORT



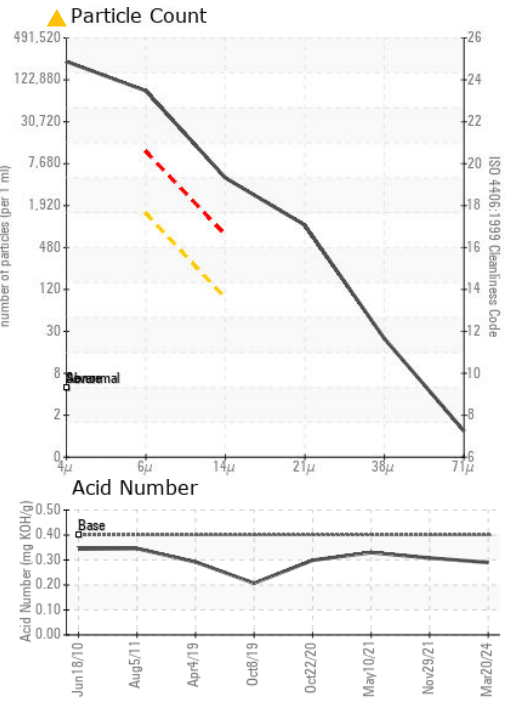
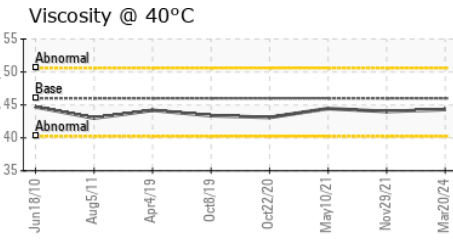
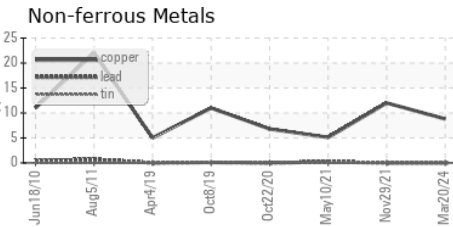
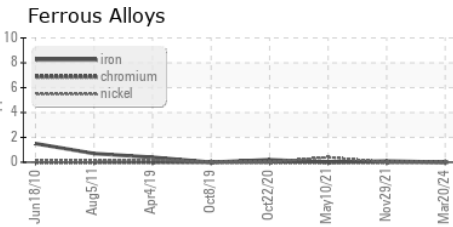
PARAMETER	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	▲ MODER
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.05	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445 46	44.3	44.0	44.45

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



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : KCPA015933 **Received** : 29 Mar 2024  
**Lab Number** : 06134052 **Tested** : 01 Apr 2024  
**Unique Number** : 10953517 **Diagnosed** : 03 Apr 2024 - Don Baldrige  
**Test Package** : IND 2 ( Additional Tests: KF, PrtCount )

**TULSA WILBERT VAULT**  
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 TULSA, OK  
 US 74131  
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 abuerker@wilbert.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)