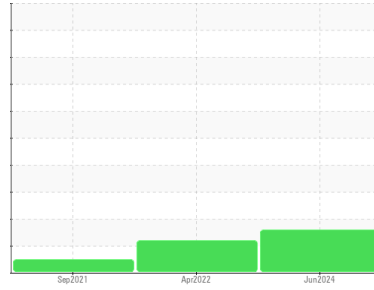




# OIL ANALYSIS REPORT

## Sample Rating Trend



ISO



Machine Id

**KAESER 6811932**

Component

**Compressor**

Fluid

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

### DIAGNOSIS

#### ▲ Recommendation

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>KCPA018392</b>	KCP45202	KCP42871
Sample Date	Client Info		<b>05 Jun 2024</b>	25 Apr 2022	13 Sep 2021
Machine Age	hrs	Client Info	<b>23894</b>	15098	10914
Oil Age	hrs	Client Info	<b>0</b>	3000	4500
Oil Changed	Client Info		<b>Changed</b>	Changed	Changed
Sample Status			<b>ABNORMAL</b>	ATTENTION	NORMAL

### WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >50	<b>0</b>	0	<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>	0	<1
Aluminum	ppm	ASTM D5185m >10	<b>0</b>	0	5
Lead	ppm	ASTM D5185m >10	<b>0</b>	0	<1
Copper	ppm	ASTM D5185m >50	<b>3</b>	5	5
Tin	ppm	ASTM D5185m >10	<b>0</b>	<1	<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>	0	<1
Barium	ppm	ASTM D5185m 90	<b>7</b>	0	19
Molybdenum	ppm	ASTM D5185m 0	<b>0</b>	0	0
Manganese	ppm	ASTM D5185m	<b>0</b>	0	<1
Magnesium	ppm	ASTM D5185m 100	<b>38</b>	0	60
Calcium	ppm	ASTM D5185m 0	<b>0</b>	0	0
Phosphorus	ppm	ASTM D5185m 0	<b>&lt;1</b>	0	6
Zinc	ppm	ASTM D5185m 0	<b>3</b>	0	0
Sulfur	ppm	ASTM D5185m 23500	<b>21376</b>	17480	16666

### CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >25	<b>&lt;1</b>	10	11
Sodium	ppm	ASTM D5185m	<b>10</b>	13	10
Potassium	ppm	ASTM D5185m >20	<b>&lt;1</b>	0	4
Water	%	ASTM D6304 >0.05	<b>0.018</b>	0.013	0.021
ppm Water	ppm	ASTM D6304 >500	<b>186</b>	133.4	212.6

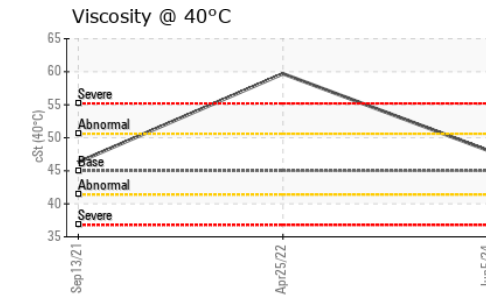
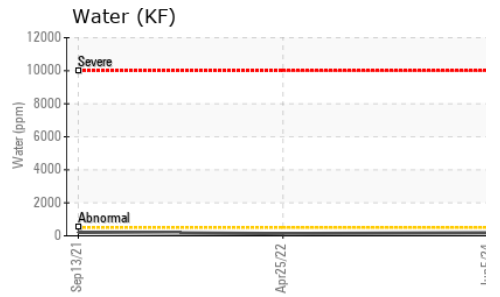
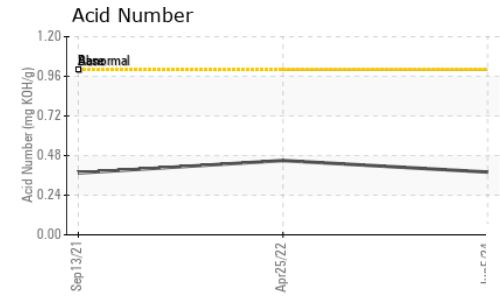
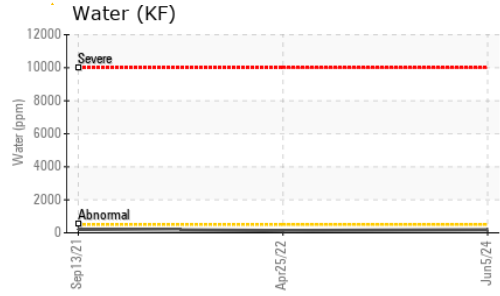
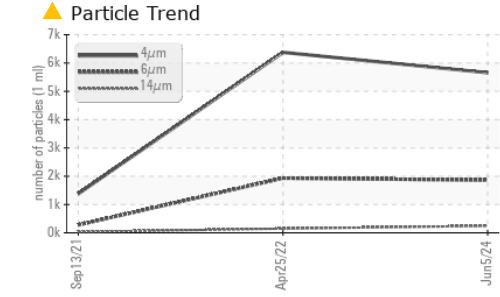
### FLUID CLEANLINESS

	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647		<b>5657</b>	6377	1381
Particles >6µm	ASTM D7647 >1300		<b>1864</b>	1932	277
Particles >14µm	ASTM D7647 >80		<b>245</b>	148	30
Particles >21µm	ASTM D7647 >20		<b>57</b>	20	9
Particles >38µm	ASTM D7647 >4		<b>2</b>	2	0
Particles >71µm	ASTM D7647 >3		<b>0</b>	0	0
Oil Cleanliness	ISO 4406 (c) >--/17/13		<b>20/18/15</b>	18/14	15/12

### FLUID DEGRADATION

	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045 1.0	<b>0.38</b>	0.45	0.375

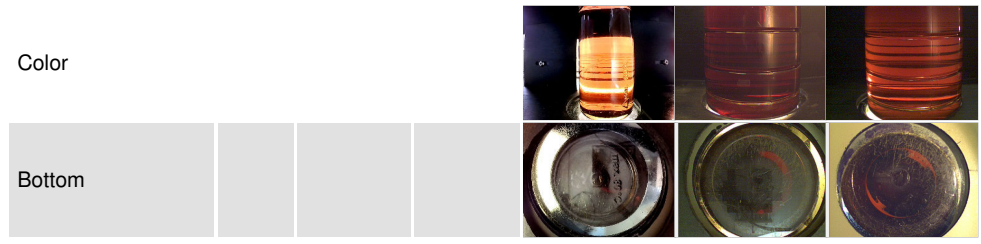
# OIL ANALYSIS REPORT



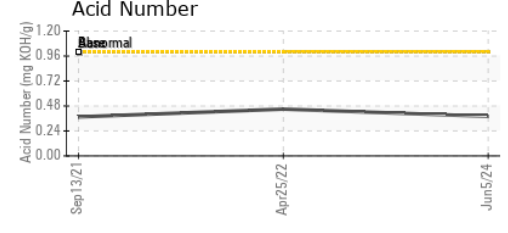
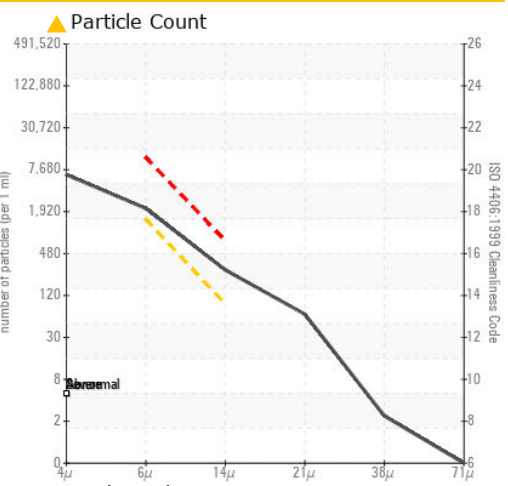
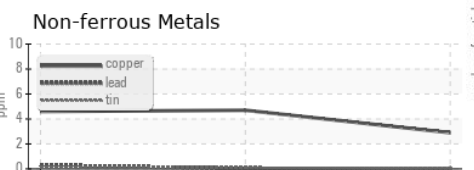
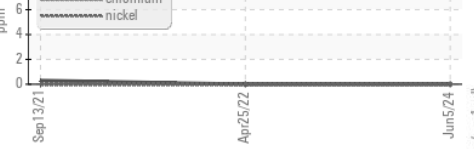
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance	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	history1	history2
Visc @ 40°C	cSt	ASTM D445	45	48.1	59.7

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



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : KCPA018392  
**Lab Number** : 06207102  
**Unique Number** : 11074563  
**Test Package** : IND 2 ( Additional Tests: KF, PrtCount )  
**Received** : 11 Jun 2024  
**Tested** : 13 Jun 2024  
**Diagnosed** : 13 Jun 2024 - Angela Borella

**EAGLE BAY ENTERPRISES**  
 5141 PORT CHICAGO HWY  
 CONCORD, CA  
 US 94520  
 Contact: MAX  
 max@procanlabs.com

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)