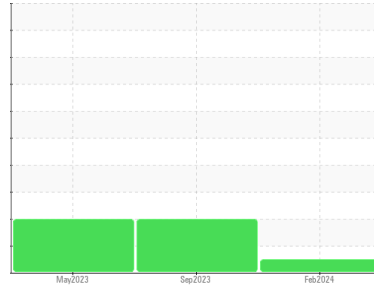




# OIL ANALYSIS REPORT

Sample Rating Trend



Machine Id  
**KAESER 6592325**

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

## DIAGNOSIS

### Recommendation

Resample at the next service interval to monitor.

### Wear

All component wear rates are normal.

### Contamination

The amount and size of particulates present in the system are acceptable. There is no indication of any contamination 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>KCP47405D</b>	KCP40103	KCP52583
Sample Date	Client Info		<b>01 Feb 2024</b>	15 Sep 2023	17 May 2023
Machine Age	hrs	Client Info	<b>16167</b>	15407	13210
Oil Age	hrs	Client Info	<b>3000</b>	2200	3000
Oil Changed	Client Info		<b>Changed</b>	Not Changd	Changed
Sample Status			<b>NORMAL</b>	ABNORMAL	ABNORMAL

## WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >50	<b>&lt;1</b>	0	<1
Chromium	ppm	ASTM D5185m >10	<b>&lt;1</b>	0	<1
Nickel	ppm	ASTM D5185m >3	<b>&lt;1</b>	0	0
Titanium	ppm	ASTM D5185m >3	<b>&lt;1</b>	0	0
Silver	ppm	ASTM D5185m >2	<b>&lt;1</b>	0	<1
Aluminum	ppm	ASTM D5185m >10	<b>&lt;1</b>	<1	2
Lead	ppm	ASTM D5185m >10	<b>&lt;1</b>	0	<1
Copper	ppm	ASTM D5185m >50	<b>4</b>	<1	5
Tin	ppm	ASTM D5185m >10	<b>&lt;1</b>	0	<1
Vanadium	ppm	ASTM D5185m	<b>0</b>	0	0
Cadmium	ppm	ASTM D5185m	<b>&lt;1</b>	0	0

## ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m 0	<b>0</b>	0	0
Barium	ppm	ASTM D5185m 90	<b>14</b>	25	0
Molybdenum	ppm	ASTM D5185m 0	<b>&lt;1</b>	0	<1
Manganese	ppm	ASTM D5185m	<b>&lt;1</b>	0	<1
Magnesium	ppm	ASTM D5185m 100	<b>53</b>	80	17
Calcium	ppm	ASTM D5185m 0	<b>&lt;1</b>	5	0
Phosphorus	ppm	ASTM D5185m 0	<b>0</b>	2	0
Zinc	ppm	ASTM D5185m 0	<b>14</b>	14	30
Sulfur	ppm	ASTM D5185m 23500	<b>24114</b>	19358	25027

## CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >25	<b>&lt;1</b>	0	<1
Sodium	ppm	ASTM D5185m	<b>13</b>	19	4
Potassium	ppm	ASTM D5185m >20	<b>4</b>	3	3
Water	%	ASTM D6304 >0.05	<b>0.028</b>	0.00	0.010
ppm Water	ppm	ASTM D6304 >500	<b>286</b>	0.00	105.6

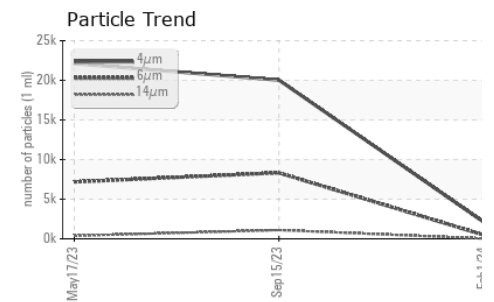
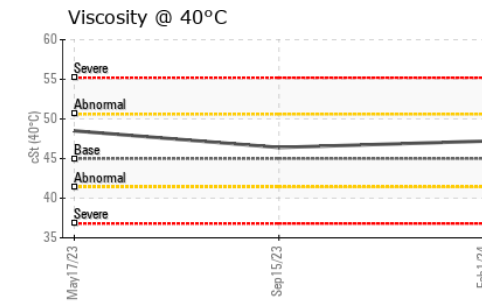
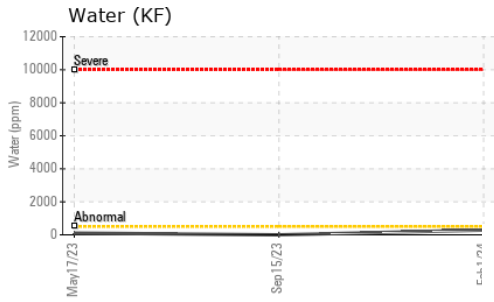
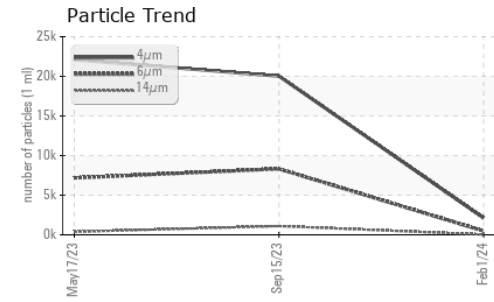
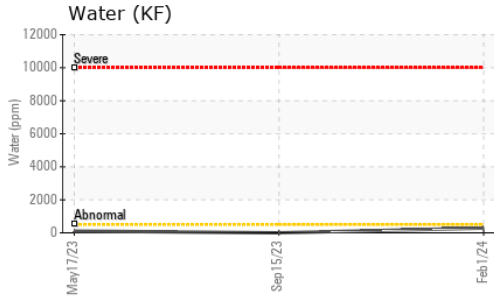
## FLUID CLEANLINESS

	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647		<b>2122</b>	20028	22115
Particles >6µm	ASTM D7647 >1300		<b>480</b>	▲ 8325	▲ 7176
Particles >14µm	ASTM D7647 >80		<b>34</b>	▲ 1102	▲ 379
Particles >21µm	ASTM D7647 >20		<b>8</b>	▲ 312	▲ 80
Particles >38µm	ASTM D7647 >4		<b>0</b>	▲ 10	▲ 6
Particles >71µm	ASTM D7647 >3		<b>0</b>	1	0
Oil Cleanliness	ISO 4406 (c) >--/17/13		<b>18/16/12</b>	▲ 22/20/17	▲ 22/20/16

## FLUID DEGRADATION

	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045 1.0	<b>0.42</b>	0.39	0.41

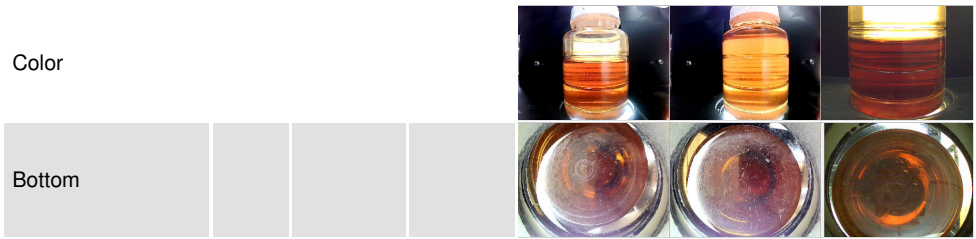
# OIL ANALYSIS REPORT



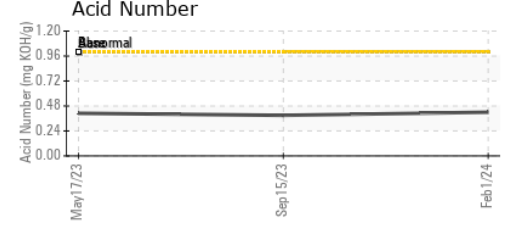
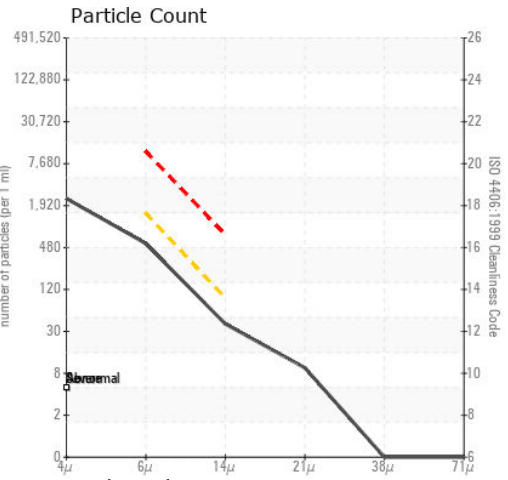
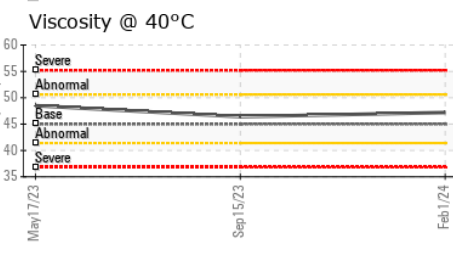
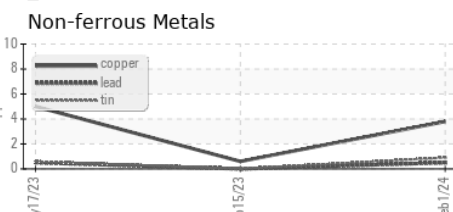
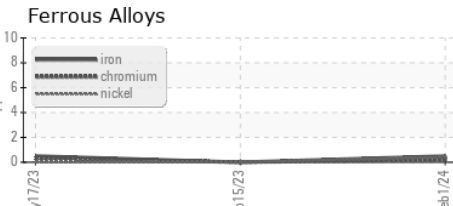
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	LIGHT	LIGHT
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance	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	47.2	46.4	48.5

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



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : KCP47405D **Received** : 23 Feb 2024  
**Lab Number** : 06098415 **Tested** : 26 Feb 2024  
**Unique Number** : 10896645 **Diagnosed** : 26 Feb 2024 - Don Baldrige  
**Test Package** : IND 2 ( Additional Tests: KF, PrtCount )

**EDCO DISPOSAL**  
 6670 FEDERAL BLVD  
 LEMON GROVE, CA  
 US 91945  
 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: