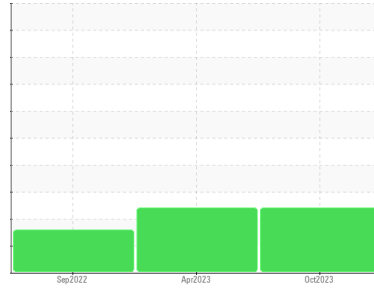




# PROBLEM SUMMARY

Sample Rating Trend



**WEAR**



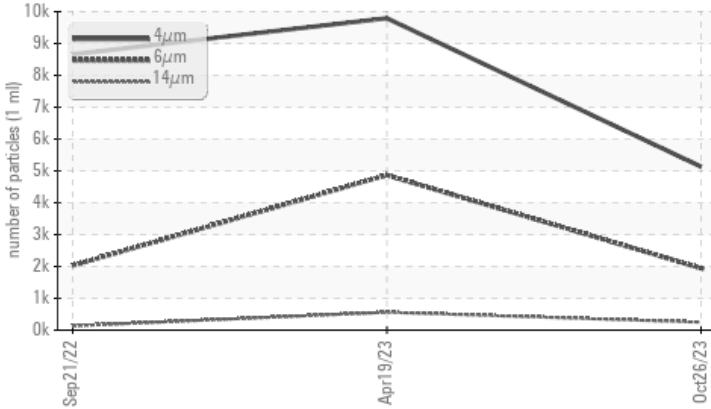
Machine Id  
**6917459 (S/N 1030)**

Component  
**Compressor**

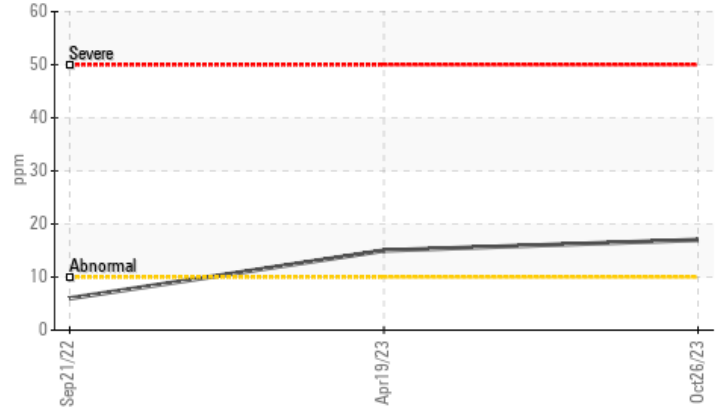
Fluid  
**KAESER SIGMA (OEM) FG-460 (--- GAL)**

## COMPONENT CONDITION SUMMARY

▲ Particle Trend



▲ Aluminum (ppm)



## RECOMMENDATION

The filter change at the time of sampling has been noted. Resample at the next service interval to monitor.

## PROBLEMATIC TEST RESULTS

Sample Status				<b>ABNORMAL</b>	ABNORMAL	ATTENTION
Aluminum	ppm	ASTM D5185m	>10	▲ <b>17</b>	▲ 15	6
Particles >6µm		ASTM D7647	>1300	▲ <b>1944</b>	▲ 4867	▲ 2026
Particles >14µm		ASTM D7647	>80	▲ <b>249</b>	▲ 562	▲ 135
Particles >21µm		ASTM D7647	>20	▲ <b>73</b>	▲ 125	▲ 29
Oil Cleanliness		ISO 4406 (c)	>--/17/13	▲ <b>20/18/15</b>	▲ 20/19/16	▲ 20/18/14

Customer Id: DEMNAP  
Sample No.: KCPA006497  
Lab Number: 06001610  
Test Package: IND 2



To manage this report scan the QR code

To discuss the diagnosis or test data:  
Doug Bogart +1 (800)237-1369 x4016  
[dougb@wearcheckusa.com](mailto:dougb@wearcheckusa.com)

To change component or sample information:  
Customer Service +1 1-800-237-1369  
[customerservice@wearcheck.com](mailto:customerservice@wearcheck.com)

## RECOMMENDED ACTIONS

*There are no recommended actions for this sample.*

## HISTORICAL DIAGNOSIS

### 19 Apr 2023 Diag: Angela Borella

#### WEAR



The filter change at the time of sampling has been noted. Resample at the next service interval to monitor. The aluminum level is abnormal. All other 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 acceptable for the time in service.

view report



### 21 Sep 2022 Diag: Jonathan Hester

#### ISO



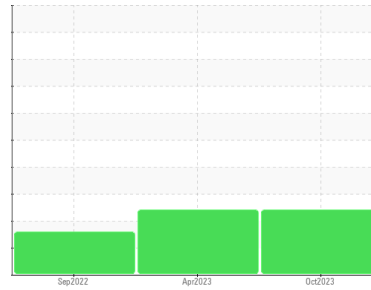
No corrective action is recommended at this time. Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor. All component wear rates are normal. There is a moderate amount of particulates present in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

view report



# OIL ANALYSIS REPORT

## Sample Rating Trend



## WEAR



Machine Id  
**6917459 (S/N 1030)**

Component

**Compressor**

Fluid

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

### DIAGNOSIS

#### ▲ Recommendation

The filter change at the time of sampling has been noted. Resample at the next service interval to monitor.

#### ▲ Wear

The aluminum 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 acceptable for the time in service.

### SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		<b>KCPA006497</b>	KCPA002778	KCP45970
Sample Date	Client Info		<b>26 Oct 2023</b>	19 Apr 2023	21 Sep 2022
Machine Age	hrs	Client Info	<b>27247</b>	23619	18615
Oil Age	hrs	Client Info	<b>0</b>	0	0
Oil Changed	Client Info		<b>N/A</b>	N/A	Changed
Sample Status			<b>ABNORMAL</b>	ABNORMAL	ATTENTION

### WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >50	<b>7</b>	6	3
Chromium	ppm	ASTM D5185m >10	<b>&lt;1</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	0
Aluminum	ppm	ASTM D5185m >10	<b>▲ 17</b>	<b>▲ 15</b>	6
Lead	ppm	ASTM D5185m >10	<b>0</b>	0	0
Copper	ppm	ASTM D5185m >50	<b>&lt;1</b>	<1	3
Tin	ppm	ASTM D5185m >10	<b>0</b>	0	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	<b>0</b>	0	0
Barium	ppm	ASTM D5185m	<b>0</b>	2	0
Molybdenum	ppm	ASTM D5185m	<b>0</b>	0	0
Manganese	ppm	ASTM D5185m	<b>0</b>	<1	0
Magnesium	ppm	ASTM D5185m	<b>1</b>	2	<1
Calcium	ppm	ASTM D5185m	<b>&lt;1</b>	0	0
Phosphorus	ppm	ASTM D5185m 500	<b>404</b>	432	131
Zinc	ppm	ASTM D5185m	<b>237</b>	367	144
Sulfur	ppm	ASTM D5185m	<b>1918</b>	2067	2655

### CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >25	<b>2</b>	0	0
Sodium	ppm	ASTM D5185m	<b>0</b>	1	0
Potassium	ppm	ASTM D5185m >20	<b>3</b>	1	2
Water	%	ASTM D6304 >0.05	<b>0.008</b>	0.003	0.006
ppm Water	ppm	ASTM D6304 >500	<b>81.6</b>	27.7	63.6

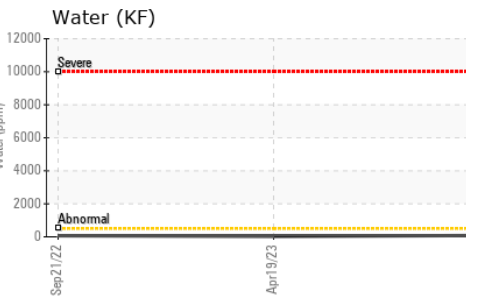
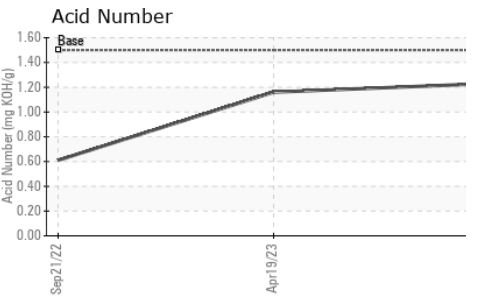
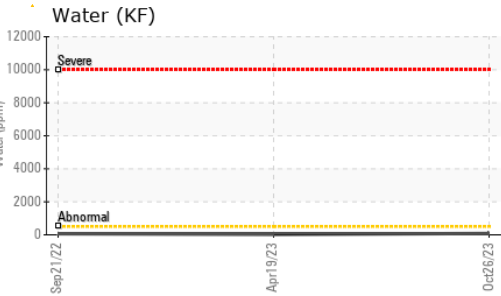
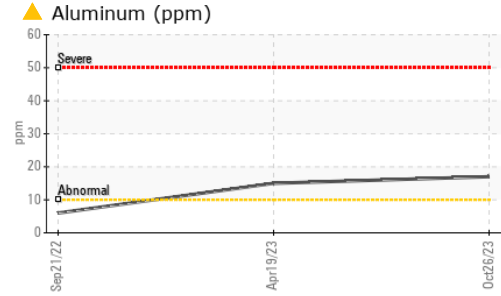
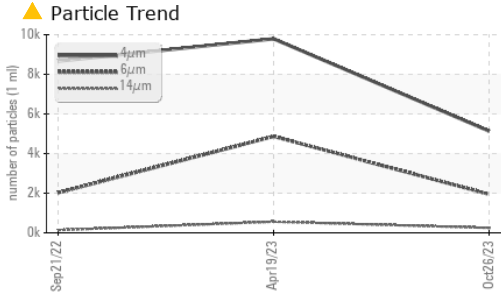
### FLUID CLEANLINESS

	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647		<b>5134</b>	9793	8662
Particles >6µm	ASTM D7647	>1300	<b>▲ 1944</b>	<b>▲ 4867</b>	<b>▲ 2026</b>
Particles >14µm	ASTM D7647	>80	<b>▲ 249</b>	<b>▲ 562</b>	<b>▲ 135</b>
Particles >21µm	ASTM D7647	>20	<b>▲ 73</b>	<b>▲ 125</b>	<b>▲ 29</b>
Particles >38µm	ASTM D7647	>4	<b>2</b>	4	3
Particles >71µm	ASTM D7647	>3	<b>1</b>	0	1
Oil Cleanliness	ISO 4406 (c)	>--/17/13	<b>▲ 20/18/15</b>	<b>▲ 20/19/16</b>	<b>▲ 20/18/14</b>

### FLUID DEGRADATION

	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045 1.5	<b>1.23</b>	1.16	0.61

# OIL ANALYSIS REPORT

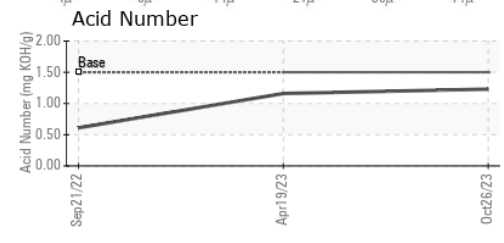
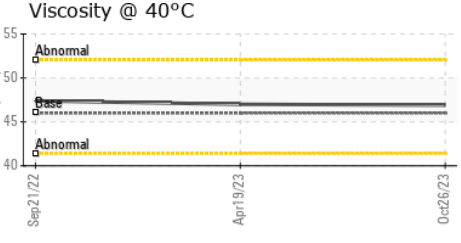
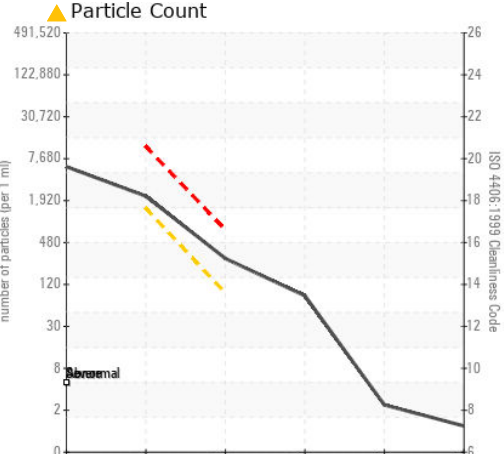
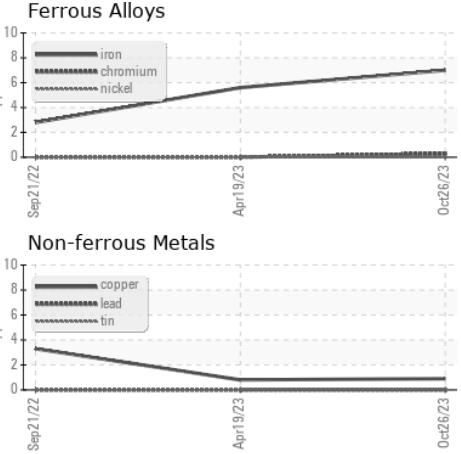


PARAMETER	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance	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 46	46.9	47.0	47.4

SAMPLE IMAGES	method	limit/base	current	history1	history2
Color					
Bottom					

## GRAPHS



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : KCPA006497 **Received** : 08 Nov 2023  
**Lab Number** : 06001610 **Diagnosed** : 09 Nov 2023  
**Unique Number** : 10729970 **Diagnostician** : Doug Bogart  
**Test Package** : IND 2 ( Additional Tests: KF, PrtCount )

**DEMPTOS NAPA COOPERAGE**  
 1050 SOSCOL FERRY RD  
 NAPA, CA  
 US 94558  
 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: