



# PROBLEM SUMMARY

Sample Rating Trend



ISO

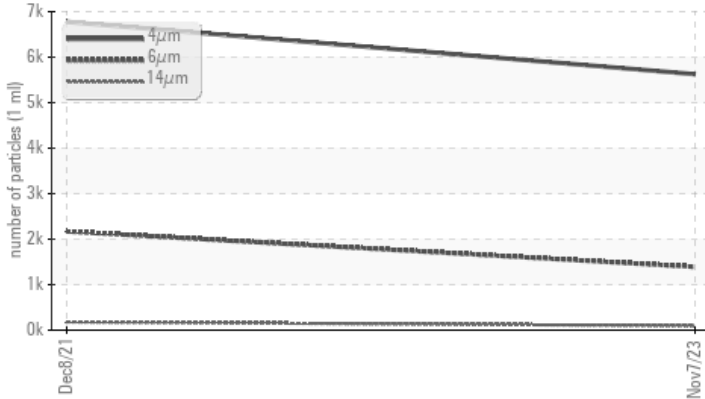


Machine Id  
**7483965 (S/N 1172)**

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

## COMPONENT CONDITION SUMMARY

### ▲ Particle Trend



## 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			ATTENTION	ABNORMAL	---
Particles >6µm	ASTM D7647	>1300	▲ <b>1390</b>	▲ 2169	---
Particles >14µm	ASTM D7647	>80	▲ <b>95</b>	▲ 180	---
Oil Cleanliness	ISO 4406 (c)	>--/17/13	▲ <b>20/18/14</b>	▲ 18/15	---

Customer Id: PALHEB  
Sample No.: KCPA001321  
Lab Number: 06017350  
Test Package: IND 2



To manage this report scan the QR code

To discuss the diagnosis or test data:  
Angela Borella +1 800-237-1369  
[angela.borella@wearcheckusa.com](mailto:angela.borella@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

**08 Dec 2021 Diag: Don Baldrige**

ISO



We recommend you service the filters on this component. Resample at the next service interval to monitor. All 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 suitable for further service.

view report





# OIL ANALYSIS REPORT

Sample Rating Trend



Machine Id  
**7483965 (S/N 1172)**  
 Component  
**Compressor**  
 Fluid  
**KAESER SIGMA (OEM) S-460 (--- GAL)**

## DIAGNOSIS

**Recommendation**  
 The 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 moderate 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>KCPA001321</b>	KC73325	---
Sample Date	Client Info			<b>07 Nov 2023</b>	08 Dec 2021	---
Machine Age	hrs	Client Info		<b>7635</b>	2394	---
Oil Age	hrs	Client Info		<b>0</b>	2394	---
Oil Changed	Client Info			<b>N/A</b>	N/A	---
Sample Status				<b>ATTENTION</b>	ABNORMAL	---

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>50	<b>0</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>	3	---
Lead	ppm	ASTM D5185m	>10	<b>0</b>	0	---
Copper	ppm	ASTM D5185m	>50	<b>7</b>	14	---
Tin	ppm	ASTM D5185m	>10	<b>0</b>	<1	---
Antimony	ppm	ASTM D5185m		<b>---</b>	0	---
Vanadium	ppm	ASTM D5185m		<b>0</b>	0	---
Cadmium	ppm	ASTM D5185m		<b>0</b>	0	---

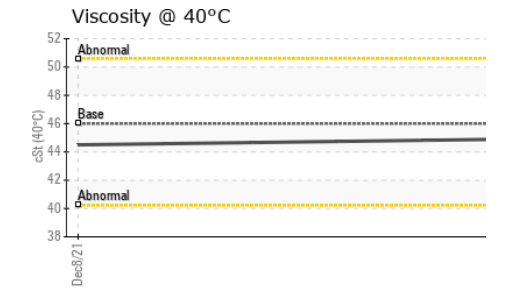
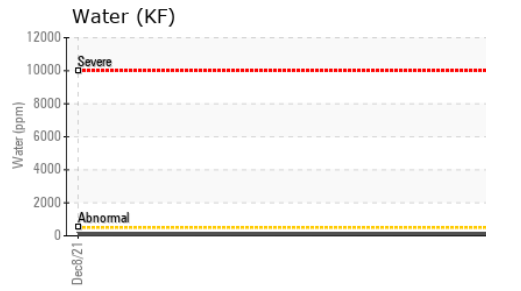
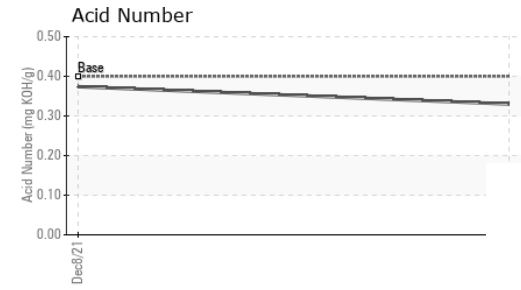
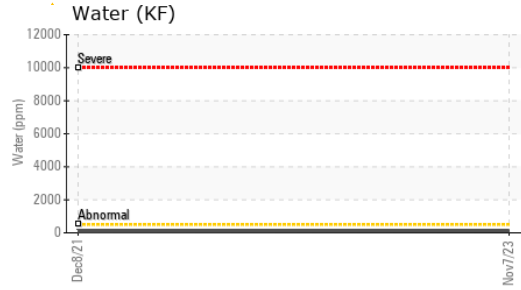
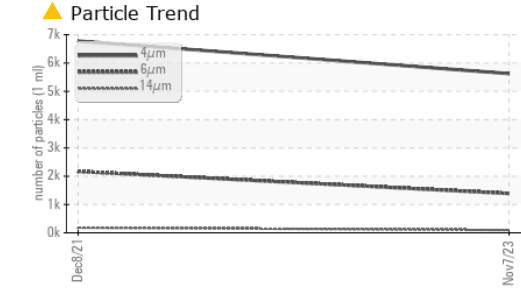
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		<b>0</b>	18	---
Barium	ppm	ASTM D5185m	90	<b>0</b>	0	---
Molybdenum	ppm	ASTM D5185m		<b>0</b>	0	---
Manganese	ppm	ASTM D5185m		<b>0</b>	<1	---
Magnesium	ppm	ASTM D5185m	90	<b>25</b>	34	---
Calcium	ppm	ASTM D5185m	2	<b>0</b>	0	---
Phosphorus	ppm	ASTM D5185m		<b>0</b>	4	---
Zinc	ppm	ASTM D5185m		<b>74</b>	85	---
Sulfur	ppm	ASTM D5185m		<b>18474</b>	15802	---

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	<b>0</b>	1	---
Sodium	ppm	ASTM D5185m		<b>11</b>	8	---
Potassium	ppm	ASTM D5185m	>20	<b>8</b>	27	---
Water	%	ASTM D6304	>0.05	<b>0.012</b>	0.008	---
ppm Water	ppm	ASTM D6304	>500	<b>121</b>	88.4	---

FLUID CLEANLINESS		method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647		<b>5625</b>	6776	---
Particles >6µm		ASTM D7647	>1300	<b>▲ 1390</b>	▲ 2169	---
Particles >14µm		ASTM D7647	>80	<b>▲ 95</b>	▲ 180	---
Particles >21µm		ASTM D7647	>20	<b>23</b>	▲ 26	---
Particles >38µm		ASTM D7647	>4	<b>0</b>	1	---
Particles >71µm		ASTM D7647	>3	<b>0</b>	0	---
Oil Cleanliness		ISO 4406 (c)	>--/17/13	<b>▲ 20/18/14</b>	▲ 18/15	---

FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	0.4	<b>0.33</b>	0.374	---

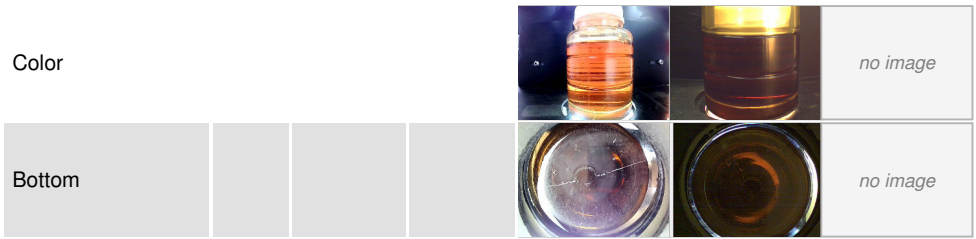
# OIL ANALYSIS REPORT



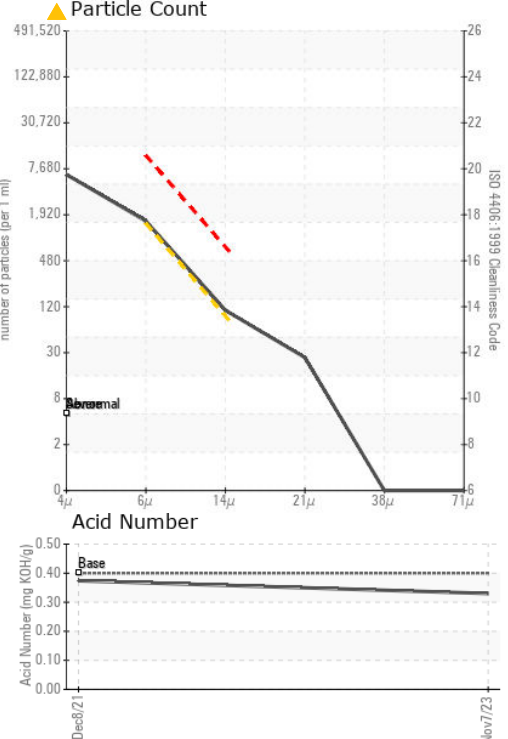
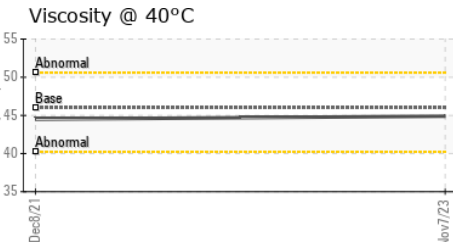
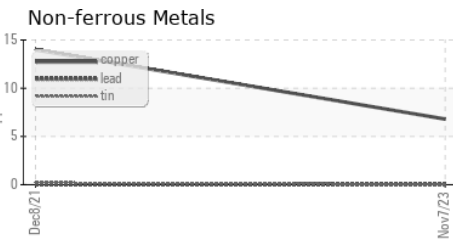
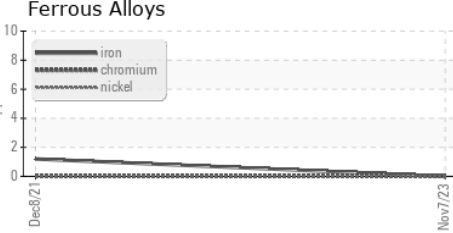
PARAMETER	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	---
Precipitate	scalar	*Visual	NONE	NONE	---
Silt	scalar	*Visual	NONE	NONE	---
Debris	scalar	*Visual	NONE	NONE	VLITE
Sand/Dirt	scalar	*Visual	NONE	NONE	---
Appearance	scalar	*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	history1	history2
Visc @ 40°C	cSt	ASTM D445	46	44.5	---

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



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : KCPA001321 **Received** : 24 Nov 2023  
**Lab Number** : 06017350 **Diagnosed** : 29 Nov 2023  
**Unique Number** : 10756494 **Diagnostician** : Angela Borella  
**Test Package** : IND 2 ( Additional Tests: KF, PrtCount )

**PALMER-DONAVIN**  
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 Contact: GEBHARD STAHL MASCHINENBAU  
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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)