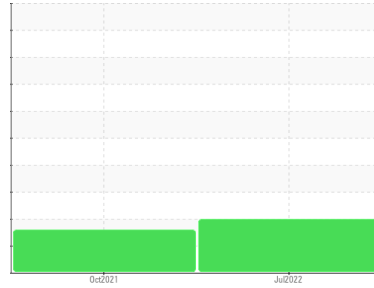


# PROBLEM SUMMARY

Sample Rating Trend



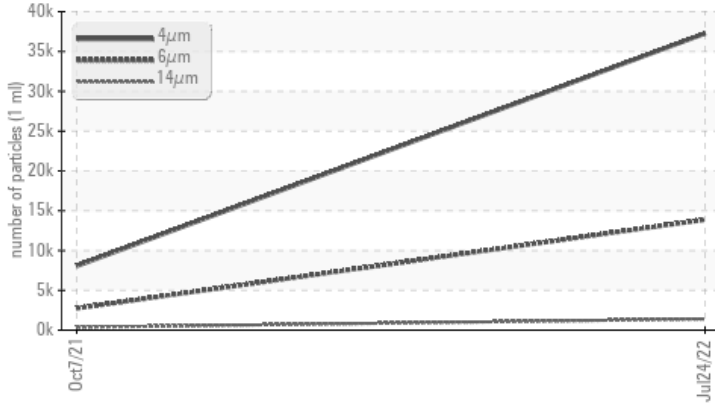
ISO



Machine Id  
**KAESER ASV 40 4536309 (S/N 1011)**  
Component  
**Compressor**  
Fluid  
**KAESER SIGMA (OEM) S-460 (--- GAL)**

## COMPONENT CONDITION SUMMARY

▲ Particle Trend



## RECOMMENDATION

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

## PROBLEMATIC TEST RESULTS

Sample Status	ASTM D7647	ASTM D7647	ABNORMAL	ABNORMAL	---
Particles >6µm	>1300	▲ <b>13869</b>	▲ 2734	---	
Particles >14µm	>80	▲ <b>1401</b>	▲ 358	---	
Particles >21µm	>20	▲ <b>206</b>	▲ 79	---	
Particles >38µm	>4	▲ <b>12</b>	▲ 7	---	
Oil Cleanliness	ISO 4406 (c) >--/17/13	▲ <b>22/21/18</b>	▲ 19/16	---	

Customer Id: COBSAN  
Sample No.: KCP49696  
Lab Number: 05600180  
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

Action	Status	Date	Done By	Description
Change Fluid	---	---	?	Oil and filter change at the time of sampling has been noted.
Change Filter	---	---	?	Oil and filter change at the time of sampling has been noted.

## HISTORICAL DIAGNOSIS

07 Oct 2021 Diag: Angela Borella

ISO



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 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.

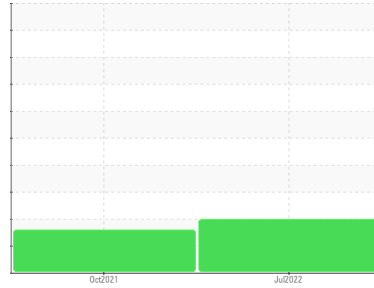
view report





# OIL ANALYSIS REPORT

Sample Rating Trend



Machine Id  
**KAESER ASV 40 4536309 (S/N 1011)**  
 Component  
**Compressor**  
 Fluid  
**KAESER SIGMA (OEM) S-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>KCP49696</b>	KCP11889	---
Sample Date	Client Info		<b>24 Jul 2022</b>	07 Oct 2021	---
Machine Age	hrs	Client Info	<b>77892</b>	71423	---
Oil Age	hrs	Client Info	<b>700</b>	50151	---
Oil Changed	Client Info		<b>Changed</b>	Changed	---
Sample Status			<b>ABNORMAL</b>	ABNORMAL	---

## WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >50	<1	<1	---
Chromium	ppm	ASTM D5185m >10	0	0	---
Nickel	ppm	ASTM D5185m >3	0	0	---
Titanium	ppm	ASTM D5185m >3	0	0	---
Silver	ppm	ASTM D5185m >2	<1	<1	---
Aluminum	ppm	ASTM D5185m >10	<1	0	---
Lead	ppm	ASTM D5185m >10	<1	<1	---
Copper	ppm	ASTM D5185m >50	4	6	---
Tin	ppm	ASTM D5185m >10	0	0	---
Antimony	ppm	ASTM D5185m	---	0	---
Vanadium	ppm	ASTM D5185m	0	0	---
Cadmium	ppm	ASTM D5185m	0	0	---

## ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	<1	<1	---
Barium	ppm	ASTM D5185m 90	<b>93</b>	120	---
Molybdenum	ppm	ASTM D5185m	0	0	---
Manganese	ppm	ASTM D5185m	0	<1	---
Magnesium	ppm	ASTM D5185m 90	<b>109</b>	124	---
Calcium	ppm	ASTM D5185m 2	<b>4</b>	4	---
Phosphorus	ppm	ASTM D5185m	<b>10</b>	0	---
Zinc	ppm	ASTM D5185m	<b>2</b>	0	---
Sulfur	ppm	ASTM D5185m	<b>18102</b>	12140	---

## CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >25	<1	0	---
Sodium	ppm	ASTM D5185m	<b>27</b>	36	---
Potassium	ppm	ASTM D5185m >20	<b>3</b>	4	---
Water	%	ASTM D6304 >0.05	<b>0.027</b>	0.039	---
ppm Water	ppm	ASTM D6304 >500	<b>273.5</b>	399.8	---

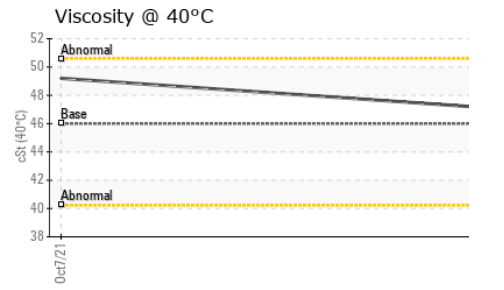
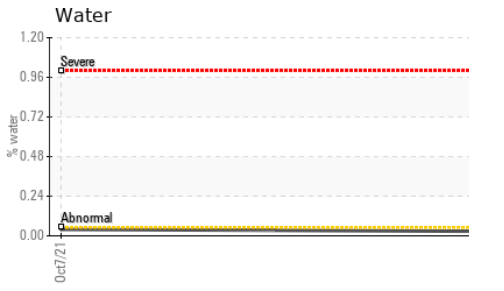
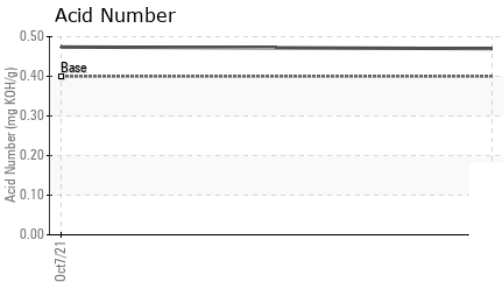
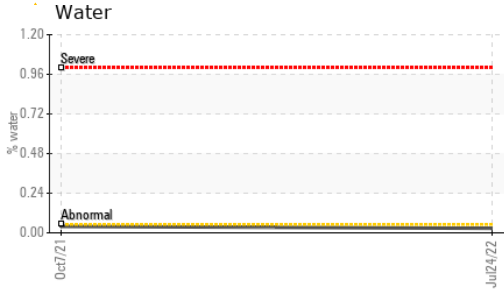
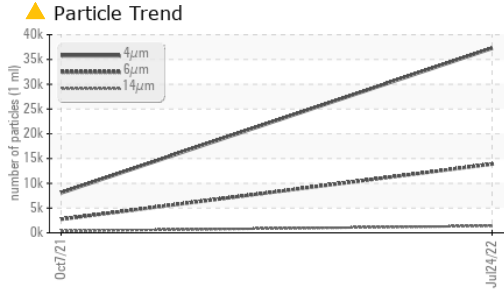
## FLUID CLEANLINESS

	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647		<b>37266</b>	8056	---
Particles >6µm	ASTM D7647 >1300		<b>▲ 13869</b>	▲ 2734	---
Particles >14µm	ASTM D7647 >80		<b>▲ 1401</b>	▲ 358	---
Particles >21µm	ASTM D7647 >20		<b>▲ 206</b>	▲ 79	---
Particles >38µm	ASTM D7647 >4		<b>▲ 12</b>	▲ 7	---
Particles >71µm	ASTM D7647 >3		<b>1</b>	0	---
Oil Cleanliness	ISO 4406 (c) >--/17/13		<b>▲ 22/21/18</b>	▲ 19/16	---

## FLUID DEGRADATION

	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045 0.4	<b>0.47</b>	0.474	---

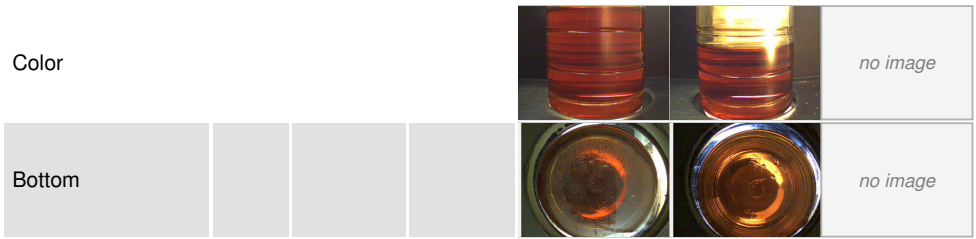
# OIL ANALYSIS REPORT



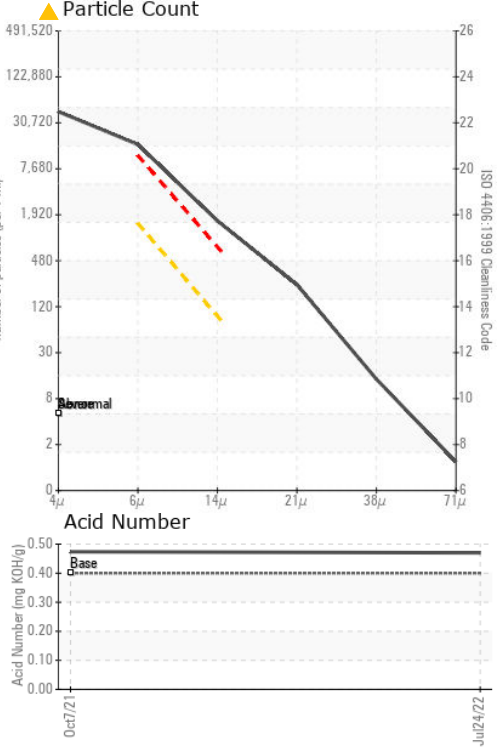
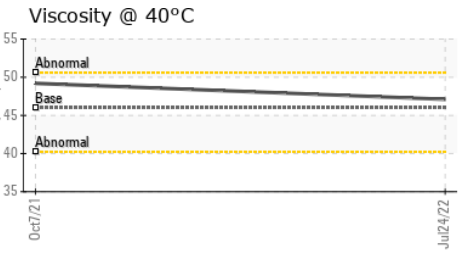
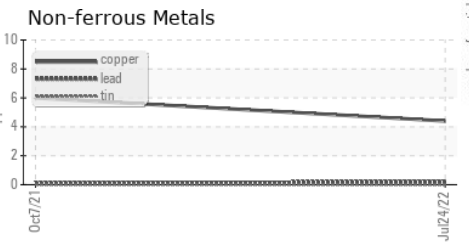
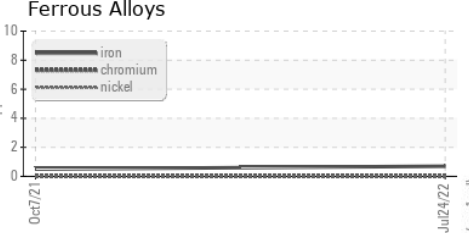
PARAMETER	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	---
Precipitate	scalar	*Visual	NONE	NONE	---
Silt	scalar	*Visual	NONE	NONE	---
Debris	scalar	*Visual	NONE	VLITE	LIGHT
Sand/Dirt	scalar	*Visual	NONE	NONE	---
Appearance	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	47.1	49.2

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



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : KCP49696 **Received** : 25 Jul 2022  
**Lab Number** : 05600180 **Diagnosed** : 27 Jul 2022  
**Unique Number** : 10064660 **Diagnostician** : Angela Borella  
**Test Package** : IND 2 ( Additional Tests: KF, PrtCount )

**COBHAM DEFENCE ELECTRONIC SYSTEMS**  
 5300 HELLYER AVE.  
 SAN JOSE, CA  
 US 95138  
 Contact: FRANK SCHWEININGER  
 frank.schweininger@caes.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)