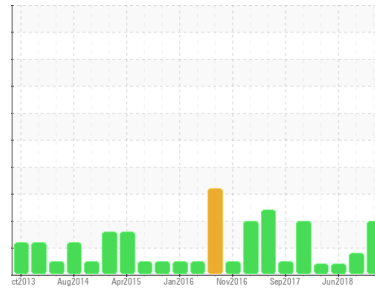


# OIL ANALYSIS REPORT

Sample Rating Trend



**WATER**



Machine Id

**KAESER SFC 22 4673672 (S/N 1030)**

Component

**Compressor**

Fluid

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

**DIAGNOSIS**

**▲ Recommendation**

We recommend you service the filters on this component. We advise that you stop the unit and follow the water drain-off procedure for this component. We recommend an early resample in 500 hours to monitor this condition. We were unable to perform a particle count due to a high concentration of particles present in this sample.

**Wear**

All component wear rates are normal.

**▲ Contamination**

Moderate concentration of visible dirt/debris present in the oil. There is a light concentration of water present in the oil.

**Fluid Condition**

The AN level is acceptable for this fluid.

**SAMPLE INFORMATION**

method	limit/base	current	history1	history2
Sample Number	Client Info	<b>KC91347</b>	KC90572	KC76583
Sample Date	Client Info	<b>19 Mar 2024</b>	09 Aug 2022	22 Jun 2018
Machine Age	hrs	<b>49037</b>	47309	43449
Oil Age	hrs	<b>2000</b>	300	2351
Oil Changed	Client Info	<b>Not Chngd</b>	Not Chngd	Not Chngd
Sample Status		<b>ABNORMAL</b>	ATTENTION	ATTENTION

**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>0</b>	0	0
Nickel	ppm	ASTM D5185m >3	<b>&lt;1</b>	1	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>0</b>	<1	<1
Lead	ppm	ASTM D5185m >10	<b>0</b>	0	0
Copper	ppm	ASTM D5185m >50	<b>2</b>	2	3
Tin	ppm	ASTM D5185m >10	<b>0</b>	0	0
Antimony	ppm	ASTM D5185m	<b>---</b>	---	3
Vanadium	ppm	ASTM D5185m	<b>&lt;1</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	<1
Barium	ppm	ASTM D5185m 90	<b>12</b>	41	60
Molybdenum	ppm	ASTM D5185m	<b>0</b>	0	<1
Manganese	ppm	ASTM D5185m	<b>&lt;1</b>	0	<1
Magnesium	ppm	ASTM D5185m 90	<b>39</b>	62	72
Calcium	ppm	ASTM D5185m 2	<b>6</b>	2	2
Phosphorus	ppm	ASTM D5185m	<b>0</b>	3	1
Zinc	ppm	ASTM D5185m	<b>8</b>	15	8

**CONTAMINANTS**

method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185m >25	<b>&lt;1</b>	<1	<1
Sodium	ppm	ASTM D5185m	<b>26</b>	25	35
Potassium	ppm	ASTM D5185m >20	<b>9</b>	3	6
Water	%	ASTM D6304 >0.05	<b>▲ 0.196</b>	0.023	0.037
ppm Water	ppm	ASTM D6304 >500	<b>▲ 1960</b>	232.2	370

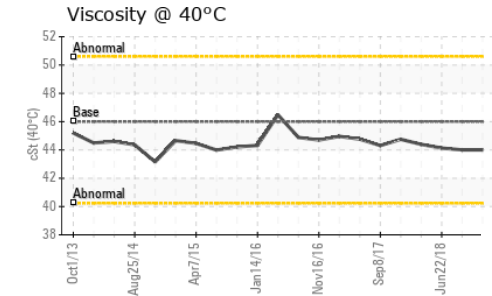
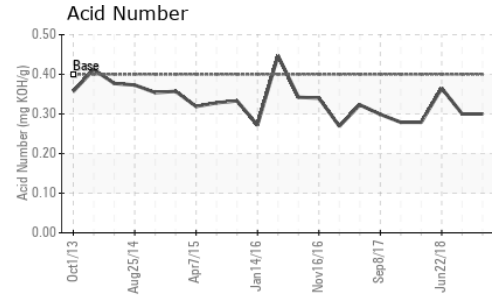
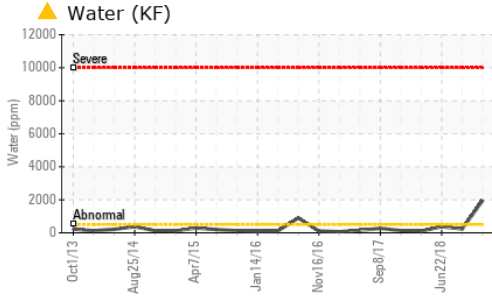
**FLUID CLEANLINESS**

method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	<b>---</b>	8403	3764
Particles >6µm	ASTM D7647 >1300	<b>---</b>	● 1701	994
Particles >14µm	ASTM D7647 >80	<b>---</b>	70	● 89
Particles >21µm	ASTM D7647 >20	<b>---</b>	17	24
Particles >38µm	ASTM D7647 >4	<b>---</b>	2	1
Particles >71µm	ASTM D7647 >3	<b>---</b>	0	0
Oil Cleanliness	ISO 4406 (c) >--/17/13	<b>---</b>	● 20/18/13	● 17/14

**FLUID DEGRADATION**

method	limit/base	current	history1	history2	
Acid Number (AN)	mg KOH/g	ASTM D8045 0.4	<b>0.30</b>	0.30	0.365

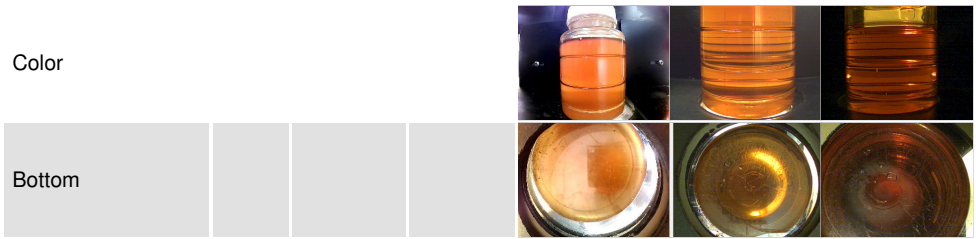
# OIL ANALYSIS REPORT



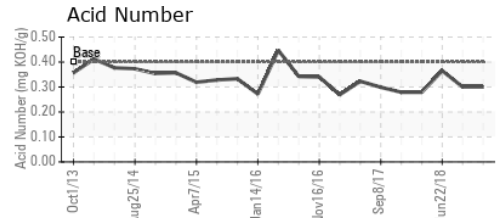
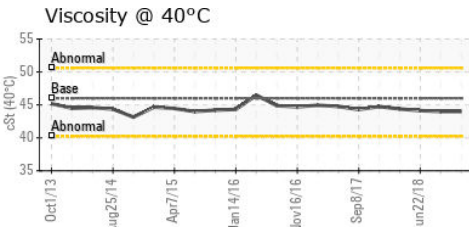
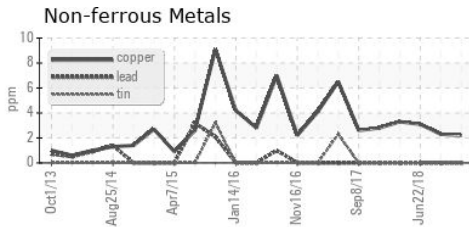
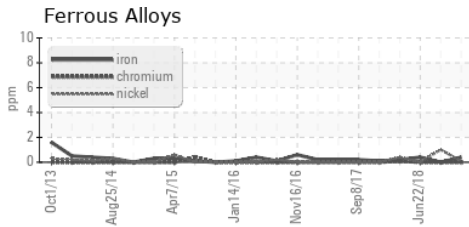
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	▲ MODER	NONE	LIGHT
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.05 ▲ 0.2%	NEG	NEG
Free Water	scalar	*Visual	NEG	NEG	NEG

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445 46	44.0	44.0	44.13

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



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : KC91347  
**Lab Number** : 06134885  
**Unique Number** : 10954350  
**Test Package** : IND 2  
**Received** : 01 Apr 2024  
**Tested** : 03 Apr 2024  
**Diagnosed** : 03 Apr 2024 - Don Baldrige

**FLIR GOVERNMENT SYSTEMS**  
 183 NORTH POINTS BLVD  
 FREEPORT, PA  
 US 16229  
 Contact:

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: