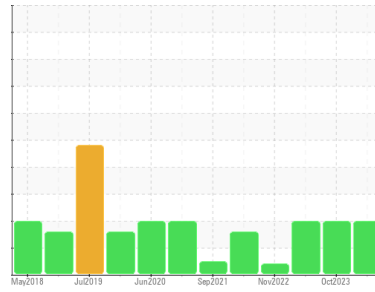




# OIL ANALYSIS REPORT

Sample Rating Trend



Machine Id  
**KAESER SM 11 1251292 (S/N 1006)**  
 Component  
**Compressor**  
 Fluid  
**KAESER SIGMA (OEM) M-460 (--- GAL)**

## DIAGNOSIS

**Recommendation**  
 No corrective action is recommended at this time. 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 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>KCPA017115</b>	KCPA000556	KCP53733
Sample Date	Client Info		<b>03 Apr 2024</b>	16 Oct 2023	05 May 2023
Machine Age	hrs	Client Info	<b>74695</b>	73574	72668
Oil Age	hrs	Client Info	<b>1129</b>	0	2147
Oil Changed	Client Info		<b>Not Chngd</b>	N/A	Not Chngd
Sample Status			<b>ABNORMAL</b>	ABNORMAL	ABNORMAL

## WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >50	<b>0</b>	<1	<1
Chromium	ppm	ASTM D5185m >10	<b>0</b>	0	0
Nickel	ppm	ASTM D5185m >3	<b>0</b>	0	0
Titanium	ppm	ASTM D5185m >3	<b>&lt;1</b>	0	0
Silver	ppm	ASTM D5185m >2	<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m >10	<b>&lt;1</b>	0	1
Lead	ppm	ASTM D5185m >10	<b>0</b>	0	0
Copper	ppm	ASTM D5185m >50	<b>&lt;1</b>	2	<1
Tin	ppm	ASTM D5185m >10	<b>0</b>	0	<1
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 0	<b>0</b>	0	0
Barium	ppm	ASTM D5185m 90	<b>44</b>	0	14
Molybdenum	ppm	ASTM D5185m 0	<b>0</b>	0	0
Manganese	ppm	ASTM D5185m	<b>0</b>	0	<1
Magnesium	ppm	ASTM D5185m 100	<b>82</b>	41	65
Calcium	ppm	ASTM D5185m 0	<b>3</b>	0	2
Phosphorus	ppm	ASTM D5185m 0	<b>0</b>	0	2
Zinc	ppm	ASTM D5185m 0	<b>2</b>	7	0
Sulfur	ppm	ASTM D5185m 23500	<b>22655</b>	19397	24952

## CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >25	<b>&lt;1</b>	<1	1
Sodium	ppm	ASTM D5185m	<b>8</b>	8	9
Potassium	ppm	ASTM D5185m >20	<b>1</b>	1	<1
Water	%	ASTM D6304 >0.05	<b>0.021</b>	0.024	0.016
ppm Water	ppm	ASTM D6304 >500	<b>218</b>	242.5	169.4

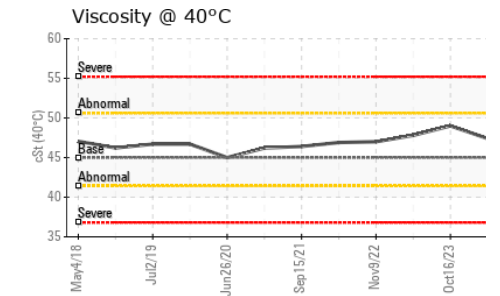
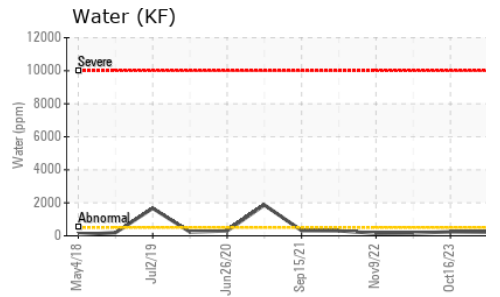
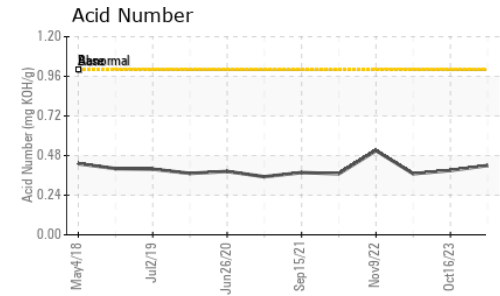
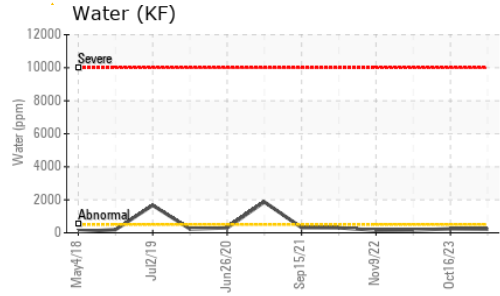
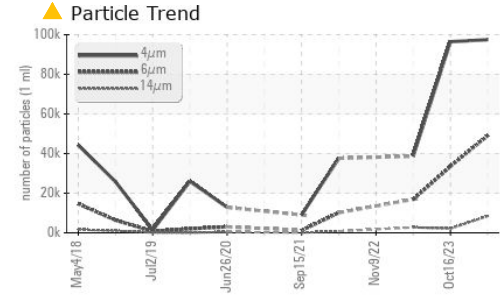
## FLUID CLEANLINESS

	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647		<b>97483</b>	96443	38683
Particles >6µm	ASTM D7647	>1300	<b>▲ 49042</b>	▲ 33520	▲ 16889
Particles >14µm	ASTM D7647	>80	<b>▲ 8469</b>	▲ 2144	▲ 2738
Particles >21µm	ASTM D7647	>20	<b>▲ 2668</b>	▲ 473	▲ 765
Particles >38µm	ASTM D7647	>4	<b>▲ 103</b>	▲ 8	▲ 17
Particles >71µm	ASTM D7647	>3	<b>3</b>	0	0
Oil Cleanliness	ISO 4406 (c)	>--/17/13	<b>▲ 24/23/20</b>	▲ 24/22/18	▲ 22/21/19

## FLUID DEGRADATION

	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045 1.0	<b>0.42</b>	0.39	0.37

# OIL ANALYSIS REPORT



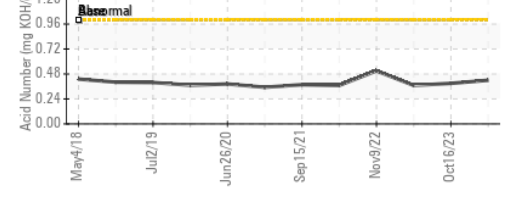
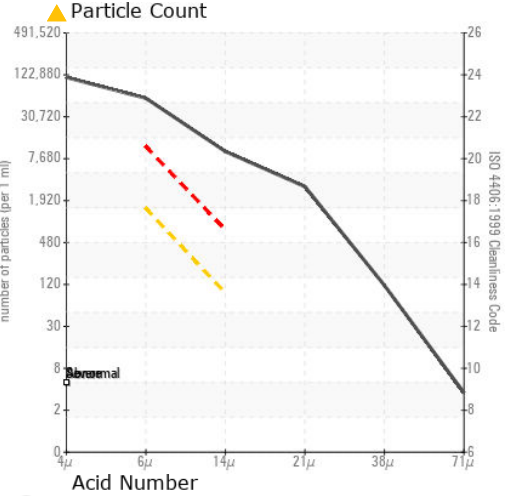
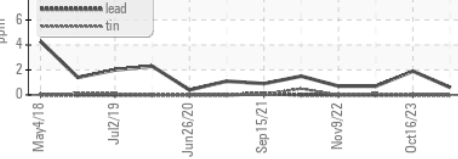
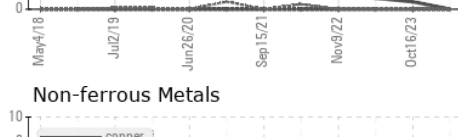
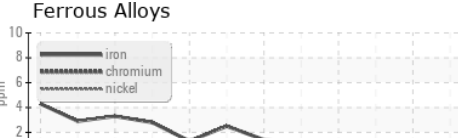
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance	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 45	47.4	49.0	47.8

**SAMPLE IMAGES**

method	limit/base	current	history1	history2
Color				
Bottom				

## GRAPHS



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : KCPA017115 **Received** : 22 Apr 2024  
**Lab Number** : 06155960 **Tested** : 23 Apr 2024  
**Unique Number** : 10991383 **Diagnosed** : 24 Apr 2024 - Don Baldrige  
**Test Package** : IND 2 ( Additional Tests: KF, PrtCount )

**THINK PACKAGING**  
 134 BANJO ST  
 BARDSTOWN, KY  
 US 40004  
 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)