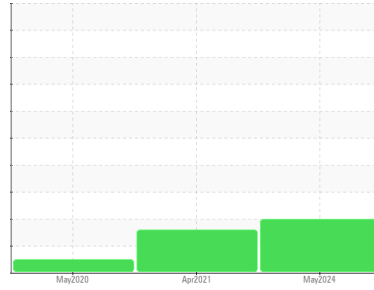




# OIL ANALYSIS REPORT

## Sample Rating Trend



ISO



Machine Id

**KAESER SM 10 5954485 (S/N 2017)**

Component

**Compressor**

Fluid

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

### DIAGNOSIS

#### ▲ Recommendation

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.

#### 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>KCPA018018</b>	KCP33679	KCP24363
Sample Date	Client Info		<b>22 May 2024</b>	28 Apr 2021	27 May 2020
Machine Age	hrs	Client Info	<b>17870</b>	7581	6949
Oil Age	hrs	Client Info	<b>0</b>	631	0
Oil Changed	Client Info		<b>Changed</b>	Changed	Changed
Sample Status			<b>ABNORMAL</b>	ABNORMAL	NORMAL

### WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >50	<b>0</b>	<1	<1
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>&lt;1</b>	0	0
Silver	ppm	ASTM D5185m >2	<b>0</b>	0	<1
Aluminum	ppm	ASTM D5185m >10	<b>2</b>	0	<1
Lead	ppm	ASTM D5185m >10	<b>&lt;1</b>	<1	<1
Copper	ppm	ASTM D5185m >50	<b>15</b>	2	16
Tin	ppm	ASTM D5185m >10	<b>&lt;1</b>	<1	<1
Antimony	ppm	ASTM D5185m	<b>---</b>	0	0
Vanadium	ppm	ASTM D5185m	<b>0</b>	0	0
Cadmium	ppm	ASTM D5185m	<b>0</b>	0	<1

### ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m 0	<b>0</b>	<1	1
Barium	ppm	ASTM D5185m 90	<b>&lt;1</b>	0	<1
Molybdenum	ppm	ASTM D5185m 0	<b>&lt;1</b>	0	0
Manganese	ppm	ASTM D5185m	<b>0</b>	<1	<1
Magnesium	ppm	ASTM D5185m 100	<b>2</b>	52	8
Calcium	ppm	ASTM D5185m 0	<b>0</b>	0	1
Phosphorus	ppm	ASTM D5185m 0	<b>7</b>	0	5
Zinc	ppm	ASTM D5185m 0	<b>1</b>	32	35
Sulfur	ppm	ASTM D5185m 23500	<b>16551</b>	18283	15736

### CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >25	<b>1</b>	1	<1
Sodium	ppm	ASTM D5185m	<b>0</b>	14	3
Potassium	ppm	ASTM D5185m >20	<b>1</b>	2	<1
Water	%	ASTM D6304 >0.05	<b>0.006</b>	0.027	0.015
ppm Water	ppm	ASTM D6304 >500	<b>67</b>	270.8	151.4

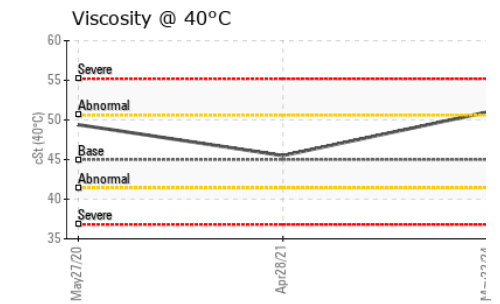
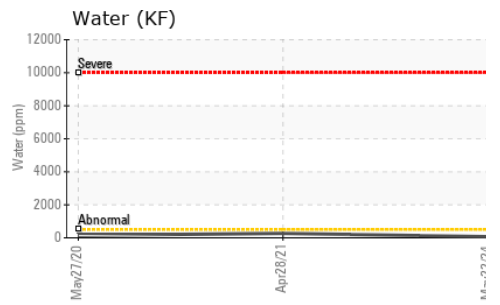
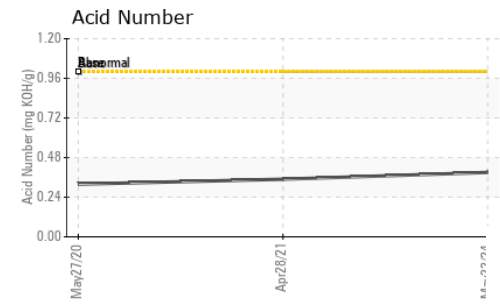
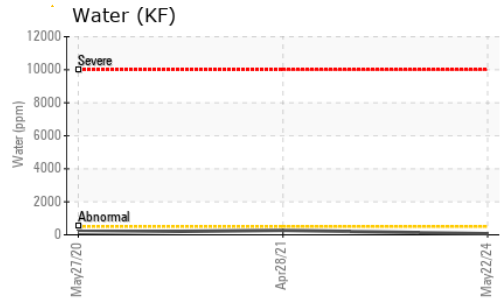
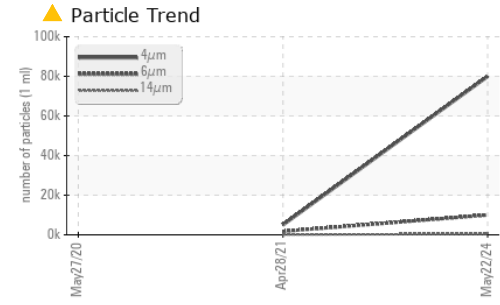
### FLUID CLEANLINESS

	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647		<b>79950</b>	4992	---
Particles >6µm	ASTM D7647	>1300	▲ <b>10006</b>	▲ 1752	---
Particles >14µm	ASTM D7647	>80	▲ <b>396</b>	▲ 161	---
Particles >21µm	ASTM D7647	>20	▲ <b>145</b>	▲ 66	---
Particles >38µm	ASTM D7647	>4	▲ <b>13</b>	▲ 9	---
Particles >71µm	ASTM D7647	>3	<b>1</b>	1	---
Oil Cleanliness	ISO 4406 (c)	>--/17/13	▲ <b>23/21/16</b>	▲ 18/15	---

### FLUID DEGRADATION

	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045 1.0	<b>0.39</b>	0.349	0.319

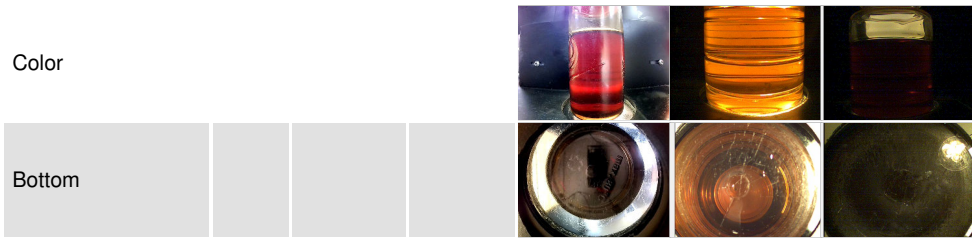
# OIL ANALYSIS REPORT



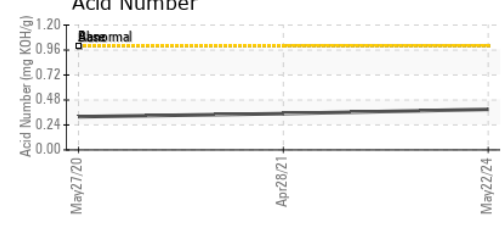
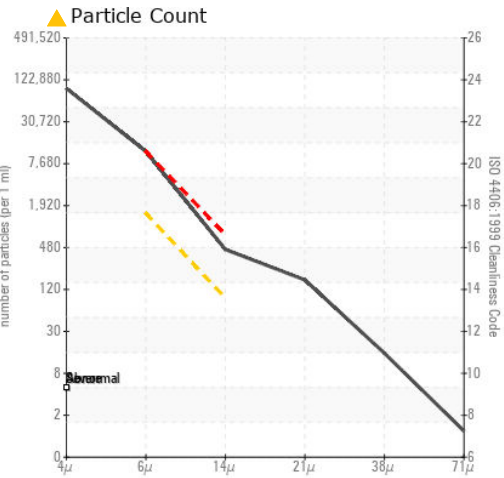
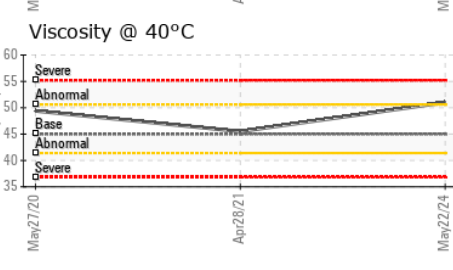
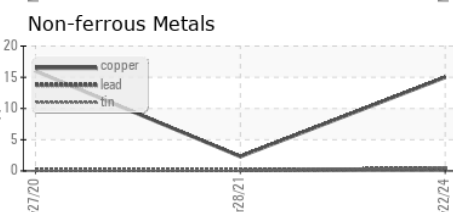
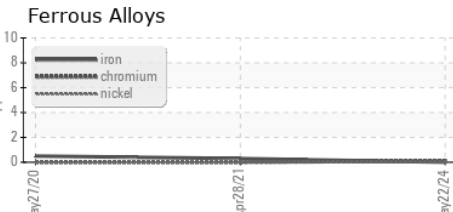
VISUAL	method	limit/base	current	history1	history2	
White Metal	scalar	*Visual	NONE	NONE	LIGHT	MODER
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

FLUID PROPERTIES	method	limit/base	current	history1	history2	
Visc @ 40°C	cSt	ASTM D445	45	51.0	45.5	49.4

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



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : KCPA018018 **Received** : 30 May 2024  
**Lab Number** : 06195437 **Tested** : 31 May 2024  
**Unique Number** : 11057560 **Diagnosed** : 31 May 2024 - Angela Borella  
**Test Package** : IND 2 ( Additional Tests: KF, PrtCount )

**ARS WHEEL REPAIR**  
 2445 MCIVER LN, SUITE 102  
 CARROLLTON, TX  
 US 75006  
 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: