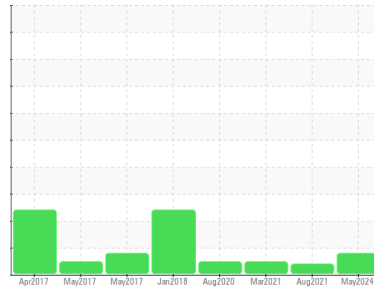


# OIL ANALYSIS REPORT

Sample Rating Trend



Machine Id  
**KAESER SFC 110 5788704 (S/N 1067)**  
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 moderate amount of silt (particulates < 14 microns in size) 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>KCPA007567</b>	KCP42419	KCP37480
Sample Date	Client Info		<b>03 May 2024</b>	25 Aug 2021	31 Mar 2021
Machine Age	hrs	Client Info	<b>35942</b>	15296	12851
Oil Age	hrs	Client Info	<b>0</b>	6178	3733
Oil Changed	Client Info		<b>N/A</b>	Changed	Changed
Sample Status			<b>ATTENTION</b>	ATTENTION	NORMAL

**WEAR METALS**

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >50	<b>0</b>	<1	0
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>0</b>	0	0
Silver	ppm	ASTM D5185m >2	<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m >10	<b>3</b>	1	1
Lead	ppm	ASTM D5185m >10	<b>0</b>	0	0
Copper	ppm	ASTM D5185m >50	<b>3</b>	<1	1
Tin	ppm	ASTM D5185m >10	<b>&lt;1</b>	0	<1
Antimony	ppm	ASTM D5185m	<b>---</b>	0	<1
Vanadium	ppm	ASTM D5185m	<b>0</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>	20	10
Barium	ppm	ASTM D5185m 90	<b>0</b>	3	44
Molybdenum	ppm	ASTM D5185m 0	<b>0</b>	0	0
Manganese	ppm	ASTM D5185m	<b>0</b>	0	0
Magnesium	ppm	ASTM D5185m 100	<b>8</b>	39	72
Calcium	ppm	ASTM D5185m 0	<b>0</b>	0	3
Phosphorus	ppm	ASTM D5185m 0	<b>0</b>	2	1
Zinc	ppm	ASTM D5185m 0	<b>4</b>	5	4
Sulfur	ppm	ASTM D5185m 23500	<b>22410</b>	18974	17402

**CONTAMINANTS**

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >25	<b>0</b>	1	0
Sodium	ppm	ASTM D5185m	<b>4</b>	6	33
Potassium	ppm	ASTM D5185m >20	<b>2</b>	8	10
Water	%	ASTM D6304 >0.05	<b>0.013</b>	0.023	0.021
ppm Water	ppm	ASTM D6304 >500	<b>139</b>	235.8	213.8

**FLUID CLEANLINESS**

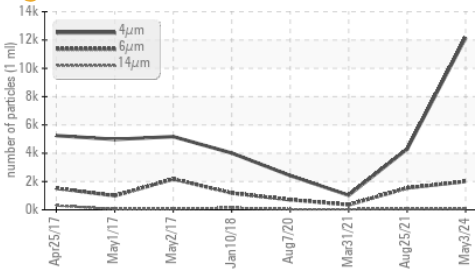
	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647		<b>12165</b>	4293	1027
Particles >6µm	ASTM D7647	>1300	<b>2007</b>	1545	355
Particles >14µm	ASTM D7647	>80	<b>51</b>	49	40
Particles >21µm	ASTM D7647	>20	<b>14</b>	14	13
Particles >38µm	ASTM D7647	>4	<b>2</b>	0	0
Particles >71µm	ASTM D7647	>3	<b>1</b>	0	0
Oil Cleanliness	ISO 4406 (c)	>--/17/13	<b>21/18/13</b>	18/13	16/12

**FLUID DEGRADATION**

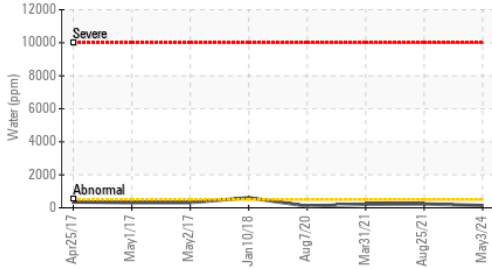
	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045 1.0	<b>0.46</b>	0.371	0.377

# OIL ANALYSIS REPORT

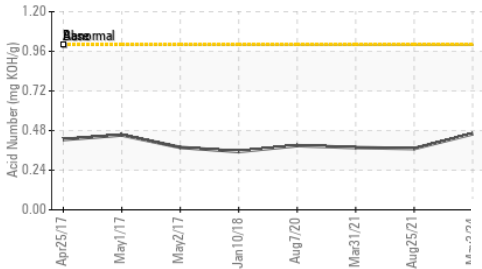
## Particle Trend



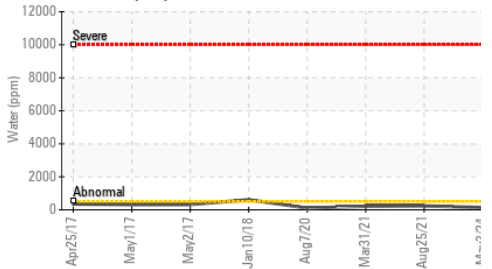
## Water (KF)



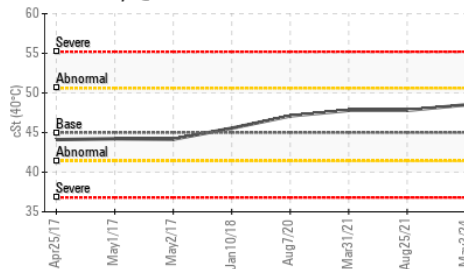
## Acid Number



## Water (KF)



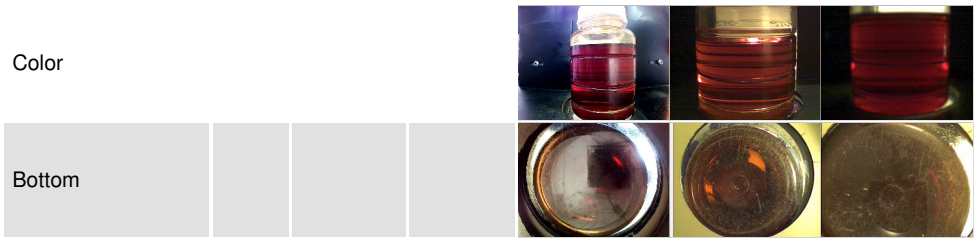
## Viscosity @ 40°C



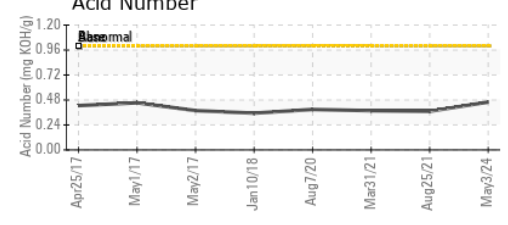
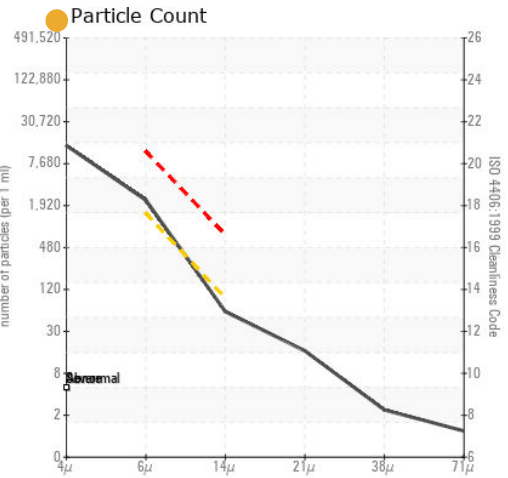
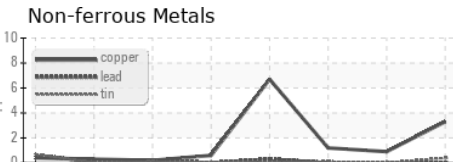
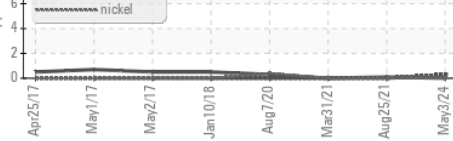
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	LIGHT
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance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

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	45	47.8	47.8

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



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : KCPA007567 **Received** : 04 Jun 2024  
**Lab Number** : 06199183 **Tested** : 05 Jun 2024  
**Unique Number** : 11061306 **Diagnosed** : 06 Jun 2024 - Don Baldrige  
**Test Package** : IND 2 ( Additional Tests: KF, PrtCount )

**CURTIS PACKAGING CORP**  
 44 BERKSHIRE RD  
 SANDY HOOK, CT  
 US 06482  
 Contact: M. POLCHES  
 mpolches@curtispackaging.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)