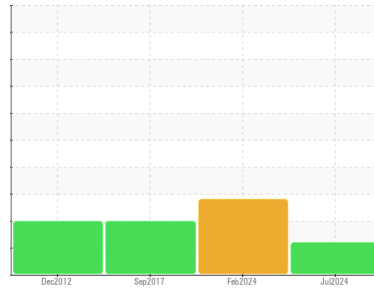




# OIL ANALYSIS REPORT

## Sample Rating Trend



## ADDITIVES



Machine Id  
**KAESER BSD 50 4395003 (S/N 1143)**  
 Component  
**Compressor**  
 Fluid  
**KAESER SIGMA (OEM) M-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

The amount and size of particulates present in the system are acceptable. There is no indication of any contamination in the oil.

#### Fluid Condition

Additive levels indicate the addition of a different brand, or type of oil. The AN level is acceptable for this fluid.

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number	Client Info			<b>KCPA020082</b>	KCP36745	KCP04933
Sample Date	Client Info			<b>05 Jul 2024</b>	01 Feb 2024	25 Sep 2017
Machine Age	hrs	Client Info		<b>69312</b>	66000	28110
Oil Age	hrs	Client Info		<b>6000</b>	2300	6000
Oil Changed	Client Info			<b>Changed</b>	Not Changd	Changed
Sample Status				<b>ATTENTION</b>	ABNORMAL	ABNORMAL

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>50	<b>0</b>	0	2
Chromium	ppm	ASTM D5185m	>10	<b>0</b>	0	0
Nickel	ppm	ASTM D5185m	>3	<b>0</b>	0	<1
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>&lt;1</b>	0	<1
Lead	ppm	ASTM D5185m	>10	<b>0</b>	0	1
Copper	ppm	ASTM D5185m	>50	<b>2</b>	1	6
Tin	ppm	ASTM D5185m	>10	<b>0</b>	<1	<1
Antimony	ppm	ASTM D5185m		<b>---</b>	---	0
Vanadium	ppm	ASTM D5185m		<b>0</b>	0	0
Cadmium	ppm	ASTM D5185m		<b>0</b>	0	0

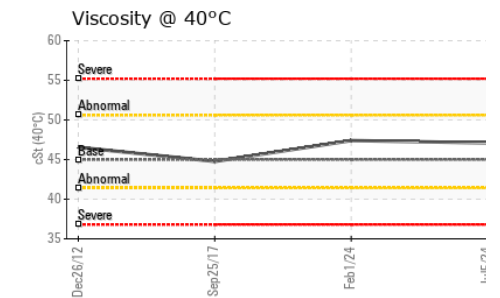
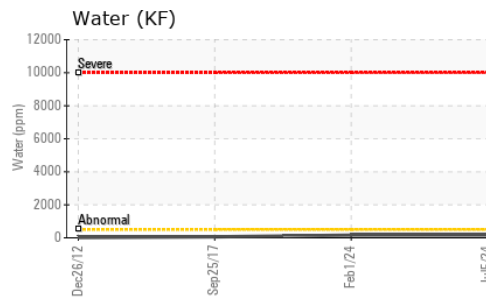
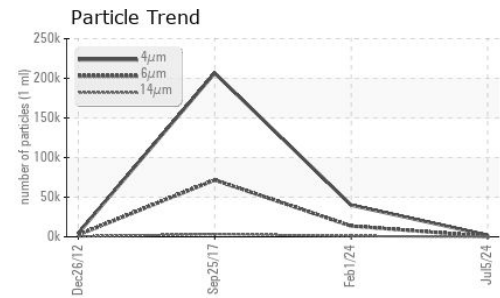
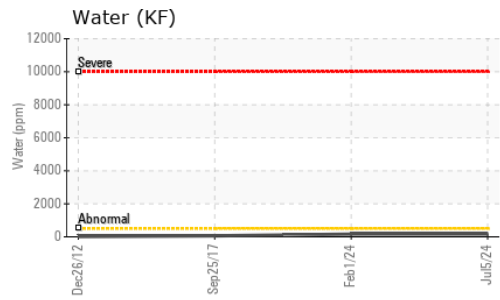
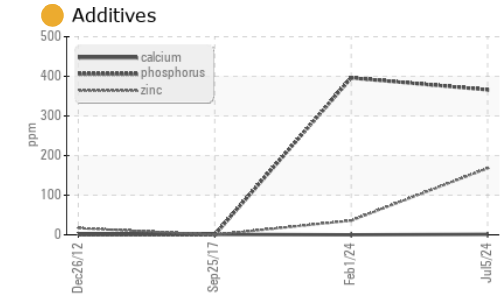
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	<b>&lt;1</b>	0	0
Barium	ppm	ASTM D5185m	90	<b>0</b>	0	<1
Molybdenum	ppm	ASTM D5185m	0	<b>0</b>	0	0
Manganese	ppm	ASTM D5185m		<b>0</b>	0	<1
Magnesium	ppm	ASTM D5185m	100	<b>7</b>	0	4
Calcium	ppm	ASTM D5185m	0	<b>1</b>	0	1
Phosphorus	ppm	ASTM D5185m	0	<b>366</b>	396	<1
Zinc	ppm	ASTM D5185m	0	<b>168</b>	36	0
Sulfur	ppm	ASTM D5185m	23500	<b>3881</b>	265	5857

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	<b>0</b>	0	2
Sodium	ppm	ASTM D5185m		<b>12</b>	8	<1
Potassium	ppm	ASTM D5185m	>20	<b>&lt;1</b>	0	1
Water	%	ASTM D6304	>0.05	<b>0.016</b>	0.016	0.006
ppm Water	ppm	ASTM D6304	>500	<b>167</b>	163	60

FLUID CLEANLINESS		method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647		<b>1999</b>	39987	206581
Particles >6µm		ASTM D7647	>1300	<b>503</b>	13620	71752
Particles >14µm		ASTM D7647	>80	<b>33</b>	906	3371
Particles >21µm		ASTM D7647	>20	<b>7</b>	197	573
Particles >38µm		ASTM D7647	>4	<b>0</b>	7	37
Particles >71µm		ASTM D7647	>3	<b>0</b>	0	14
Oil Cleanliness		ISO 4406 (c)	>--/17/13	<b>18/16/12</b>	22/21/17	23/19

FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	1.0	<b>0.79</b>	0.44	0.392

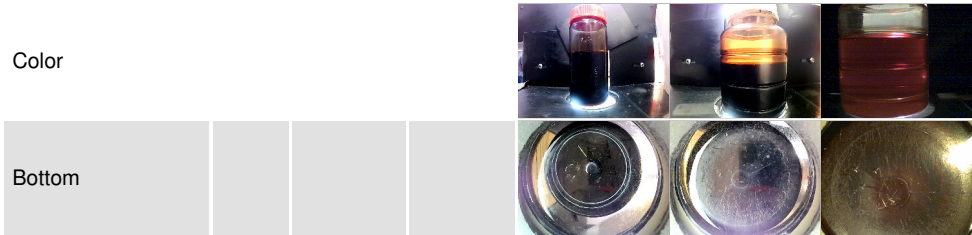
# OIL ANALYSIS REPORT



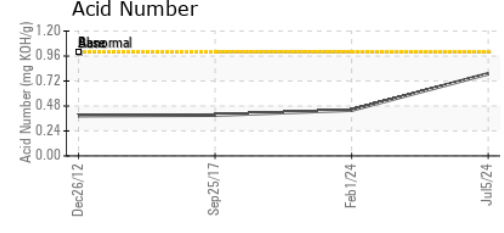
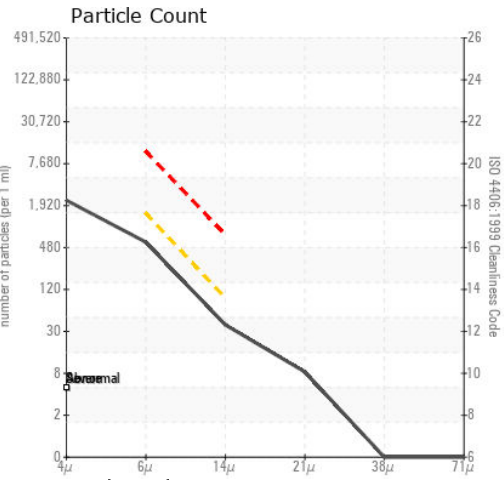
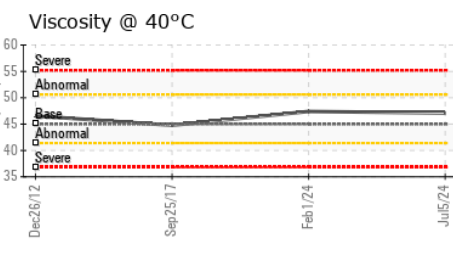
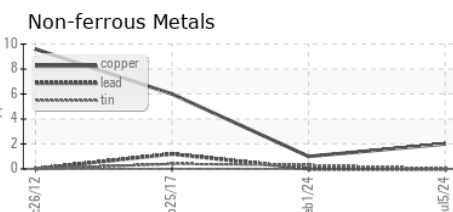
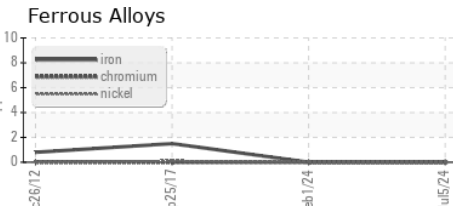
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	VLITE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance	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	47.1	47.4

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



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : KCPA020082 **Received** : 11 Jul 2024  
**Lab Number** : 06233839 **Tested** : 12 Jul 2024  
**Unique Number** : 11122673 **Diagnosed** : 13 Jul 2024 - Don Baldrige  
**Test Package** : IND 2 ( Additional Tests: KF, PrtCount )

**PAVESTONE**  
 1101 WESTINGHOUSE BLVD  
 CHARLOTTE, NC  
 US 28273  
 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)