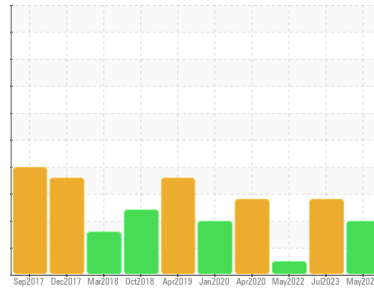




# OIL ANALYSIS REPORT

Sample Rating Trend



**WATER**



Machine Id  
**KAESER SM 7.5 3784570 (S/N 1066)**  
 Component  
**Compressor**  
 Fluid  
**KAESER SIGMA (OEM) S-460 (--- GAL)**

**DIAGNOSIS**

**▲ Recommendation**

The filter change at the time of sampling has been noted. We were unable to perform a particle count due to a high concentration of particles present in this sample. 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.

**Wear**

All component wear rates are normal.

**▲ Contamination**

There is a light concentration of water present in the oil. Moderate concentration of visible dirt/debris 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>KC128611</b>	KC106338	KC91500
Sample Date	Client Info			<b>23 May 2024</b>	03 Jul 2023	05 May 2022
Machine Age	hrs	Client Info		<b>37113</b>	34798	31490
Oil Age	hrs	Client Info		<b>2315</b>	4000	1200
Oil Changed	Client Info			<b>Not Changed</b>	Changed	Not Changed
Sample Status				<b>ABNORMAL</b>	ABNORMAL	NORMAL

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>50	<b>0</b>	0	<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>0</b>	0	0
Silver	ppm	ASTM D5185m	>2	<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m	>10	<b>2</b>	<1	0
Lead	ppm	ASTM D5185m	>10	<b>0</b>	0	<1
Copper	ppm	ASTM D5185m	>50	<b>11</b>	18	4
Tin	ppm	ASTM D5185m	>10	<b>&lt;1</b>	0	<1
Antimony	ppm	ASTM D5185m		<b>---</b>	---	---
Vanadium	ppm	ASTM D5185m		<b>0</b>	<1	0
Cadmium	ppm	ASTM D5185m		<b>0</b>	<1	0

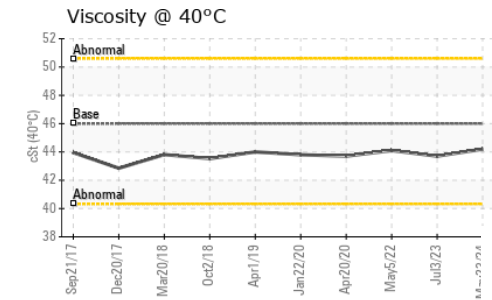
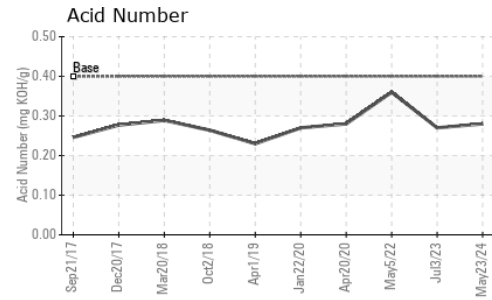
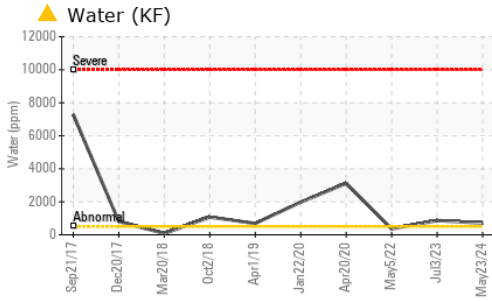
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		<b>0</b>	0	0
Barium	ppm	ASTM D5185m	90	<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185m		<b>0</b>	0	0
Manganese	ppm	ASTM D5185m		<b>0</b>	<1	0
Magnesium	ppm	ASTM D5185m	90	<b>20</b>	0	62
Calcium	ppm	ASTM D5185m	2	<b>0</b>	0	0
Phosphorus	ppm	ASTM D5185m		<b>2</b>	3	<1
Zinc	ppm	ASTM D5185m		<b>83</b>	<1	19

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	<b>0</b>	<1	1
Sodium	ppm	ASTM D5185m		<b>6</b>	1	12
Potassium	ppm	ASTM D5185m	>20	<b>2</b>	0	2
Water	%	ASTM D6304	>0.05	<b>▲ 0.071</b>	▲ 0.086	0.035
ppm Water	ppm	ASTM D6304	>500	<b>▲ 710</b>	▲ 866.8	359.9

FLUID CLEANLINESS		method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647		<b>---</b>	---	2629
Particles >6µm		ASTM D7647	>1300	<b>---</b>	---	169
Particles >14µm		ASTM D7647	>80	<b>---</b>	---	20
Particles >21µm		ASTM D7647	>20	<b>---</b>	---	8
Particles >38µm		ASTM D7647	>4	<b>---</b>	---	1
Particles >71µm		ASTM D7647	>3	<b>---</b>	---	0
Oil Cleanliness		ISO 4406 (c)	>17/13	<b>---</b>	---	15/11

FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	0.4	<b>0.28</b>	0.27	0.36

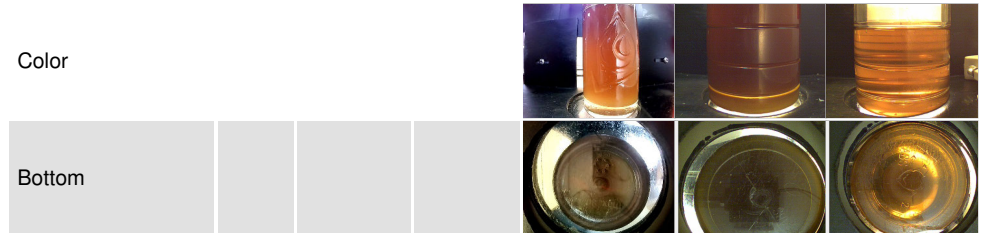
# OIL ANALYSIS REPORT



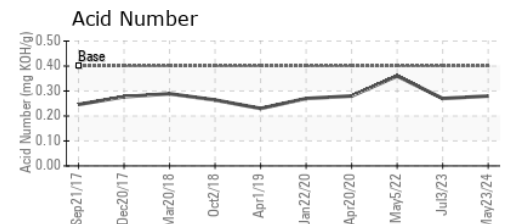
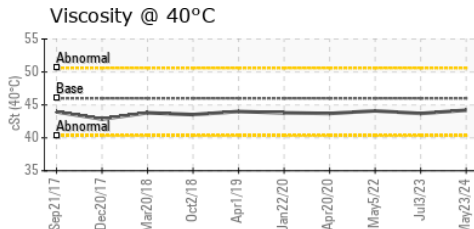
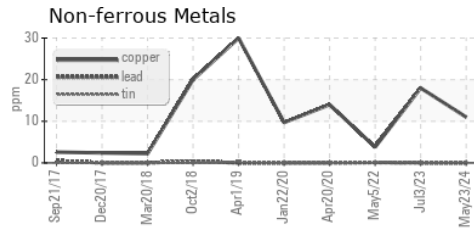
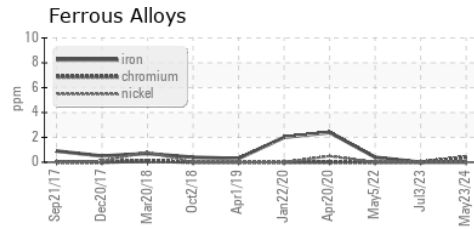
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	▲ MODER	▲ MODER
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance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

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	46	44.2	43.7

SAMPLE IMAGES	method	limit/base	current	history1	history2
---------------	--------	------------	---------	----------	----------



## GRAPHS



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : KC128611 **Received** : 07 Jun 2024  
**Lab Number** : 06202711 **Tested** : 11 Jun 2024  
**Unique Number** : 11070172 **Diagnosed** : 11 Jun 2024 - Jonathan Hester  
**Test Package** : IND 2

**BAKER HUGHES**  
 370 WESTEC DR  
 MT PLEASANT, PA  
 US 15666  
 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)