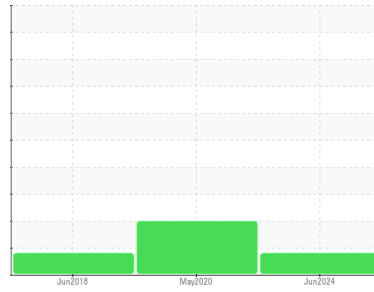




# OIL ANALYSIS REPORT

## Sample Rating Trend



ISO



Machine Id  
**KAESER AS 25T 2384078 (S/N 1027)**  
 Component  
**Compressor**  
 Fluid  
**KAESER SIGMA (OEM) S-460 (--- GAL)**

### DIAGNOSIS

#### Recommendation

No corrective action is recommended at this time. Resample at the next service interval to monitor.

#### Wear

All component wear rates are normal.

#### Contamination

There is a moderate 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>KCPA016751</b>	KCP23312	KCP06971
Sample Date	Client Info			<b>07 Jun 2024</b>	20 May 2020	14 Jun 2018
Machine Age	hrs	Client Info		<b>28835</b>	24302	24300
Oil Age	hrs	Client Info		<b>0</b>	1	0
Oil Changed	Client Info			<b>N/A</b>	N/A	N/A
Sample Status				<b>ATTENTION</b>	ABNORMAL	ABNORMAL

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>50	<b>0</b>	<1	3
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>0</b>	0	0
Silver	ppm	ASTM D5185m	>2	<b>0</b>	<1	0
Aluminum	ppm	ASTM D5185m	>10	<b>0</b>	<1	0
Lead	ppm	ASTM D5185m	>10	<b>0</b>	<1	0
Copper	ppm	ASTM D5185m	>50	<b>3</b>	<1	6
Tin	ppm	ASTM D5185m	>10	<b>0</b>	0	0
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	0

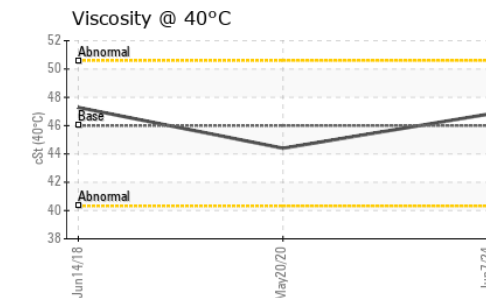
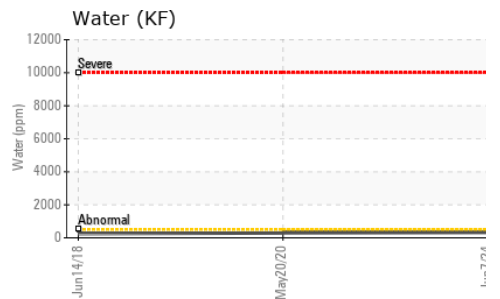
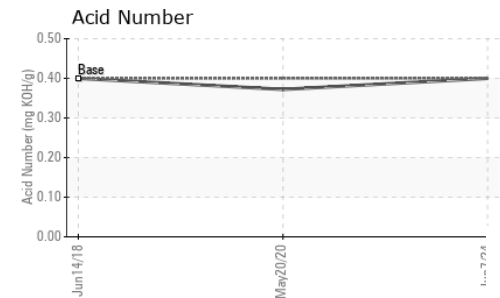
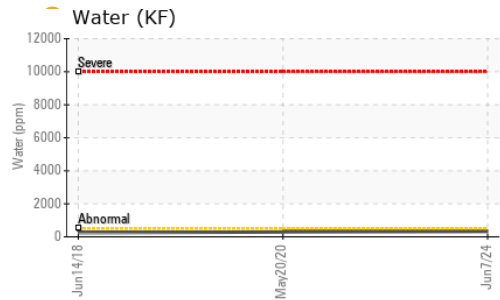
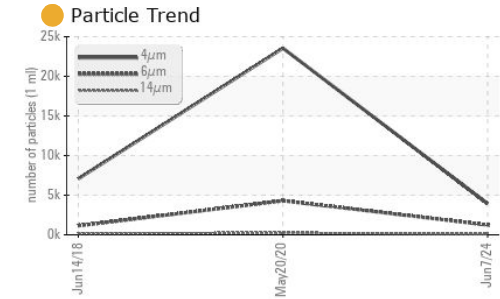
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		<b>0</b>	<1	0
Barium	ppm	ASTM D5185m	90	<b>37</b>	80	16
Molybdenum	ppm	ASTM D5185m		<b>0</b>	0	0
Manganese	ppm	ASTM D5185m		<b>1</b>	<1	<1
Magnesium	ppm	ASTM D5185m	90	<b>68</b>	92	50
Calcium	ppm	ASTM D5185m	2	<b>&lt;1</b>	4	2
Phosphorus	ppm	ASTM D5185m		<b>1</b>	2	1
Zinc	ppm	ASTM D5185m		<b>13</b>	0	13
Sulfur	ppm	ASTM D5185m		<b>22624</b>	18511	9038

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	<b>&lt;1</b>	3	0
Sodium	ppm	ASTM D5185m		<b>15</b>	3	11
Potassium	ppm	ASTM D5185m	>20	<b>3</b>	<1	3
Water	%	ASTM D6304	>0.05	<b>0.032</b>	0.029	0.025
ppm Water	ppm	ASTM D6304	>500	<b>324</b>	292.5	250

FLUID CLEANLINESS		method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647		<b>3938</b>	23550	7075
Particles >6µm		ASTM D7647	>1300	<b>1238</b>	▲ 4294	1142
Particles >14µm		ASTM D7647	>80	● <b>84</b>	▲ 251	▲ 161
Particles >21µm		ASTM D7647	>20	<b>19</b>	▲ 52	▲ 61
Particles >38µm		ASTM D7647	>4	<b>1</b>	▲ 7	5
Particles >71µm		ASTM D7647	>3	<b>0</b>	▲ 5	0
Oil Cleanliness		ISO 4406 (c)	>--/17/13	● <b>19/17/14</b>	▲ 19/15	▲ 17/15

FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	0.4	<b>0.40</b>	0.372	0.400

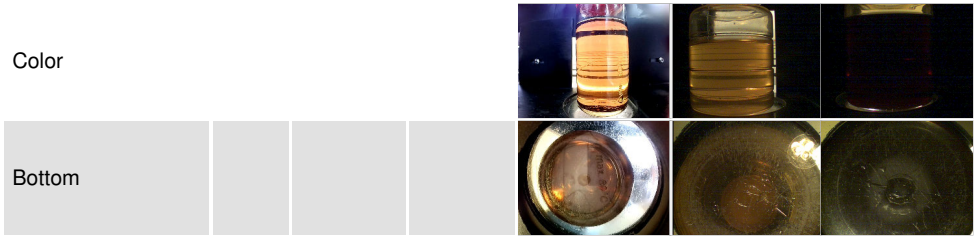
# OIL ANALYSIS REPORT



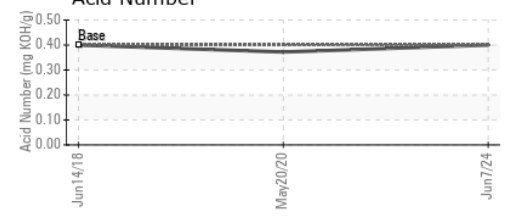
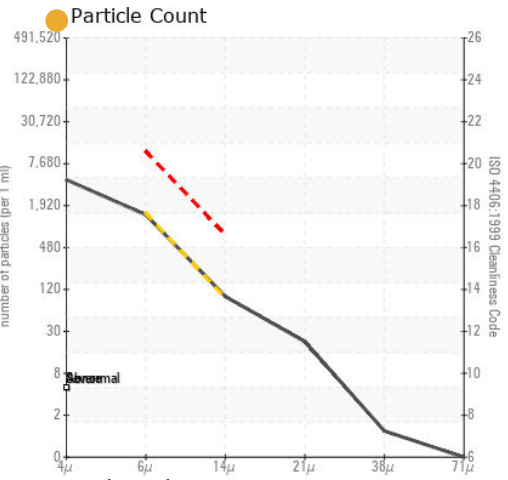
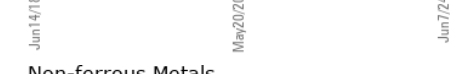
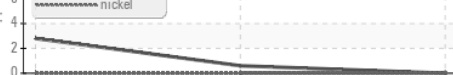
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	VLITE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance	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 46	46.8	44.4	47.28

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



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : KCPA016751 **Received** : 26 Jun 2024  
**Lab Number** : 06221203 **Tested** : 27 Jun 2024  
**Unique Number** : 11099400 **Diagnosed** : 27 Jun 2024 - Don Baldrige  
**Test Package** : IND 2 ( Additional Tests: KF, PrtCount )

**Kaeser Compressor Memphis Ops**  
 4446 MALONE ROAD  
 MEMPHIS, TN 38118  
 Contact: SAM COATES  
 Sam.coates@kaeser.com  
 T: (901)795-4884  
 F: (901)795-4885

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)