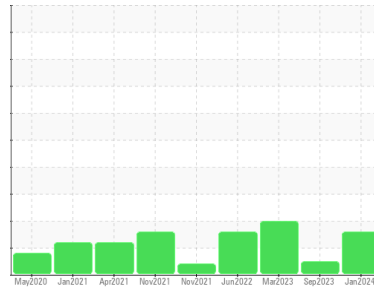




# OIL ANALYSIS REPORT

Sample Rating Trend



Machine Id  
**KAESER ASD 40T 5610370 (S/N 1181)**

Component  
**Compressor**

Fluid  
**KAESER SIGMA (OEM) S-460 (--- QTS)**

## 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 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>KC127479</b>	KC05966351	KC111907
Sample Date	Client Info	<b>08 Jan 2024</b>	20 Sep 2023	24 Mar 2023
Machine Age	hrs	<b>29495</b>	27895	24887
Oil Age	hrs	<b>0</b>	0	3030
Oil Changed	Client Info	<b>N/A</b>	N/A	Not Changd
Sample Status		<b>ATTENTION</b>	NORMAL	ABNORMAL

## WEAR METALS

method	limit/base	current	history1	history2	
Iron	ppm	ASTM D5185m >50	<b>0</b>	<1	<1
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>	0	0
Aluminum	ppm	ASTM D5185m >10	<b>0</b>	0	<1
Lead	ppm	ASTM D5185m >10	<b>0</b>	0	0
Copper	ppm	ASTM D5185m >50	<b>3</b>	13	12
Tin	ppm	ASTM D5185m >10	<b>0</b>	<1	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>	0	0
Barium	ppm	ASTM D5185m 90	<b>25</b>	2	13
Molybdenum	ppm	ASTM D5185m	<b>0</b>	0	0
Manganese	ppm	ASTM D5185m	<b>&lt;1</b>	0	<1
Magnesium	ppm	ASTM D5185m 90	<b>72</b>	14	52
Calcium	ppm	ASTM D5185m 2	<b>3</b>	0	3
Phosphorus	ppm	ASTM D5185m	<b>0</b>	3	5
Zinc	ppm	ASTM D5185m	<b>9</b>	44	24

## CONTAMINANTS

method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185m >25	<b>0</b>	1	<1
Sodium	ppm	ASTM D5185m	<b>21</b>	5	19
Potassium	ppm	ASTM D5185m >20	<b>1</b>	2	6
Water	%	ASTM D6304 >0.05	<b>0.017</b>	0.005	0.017
ppm Water	ppm	ASTM D6304 >500	<b>179</b>	59.2	173.8

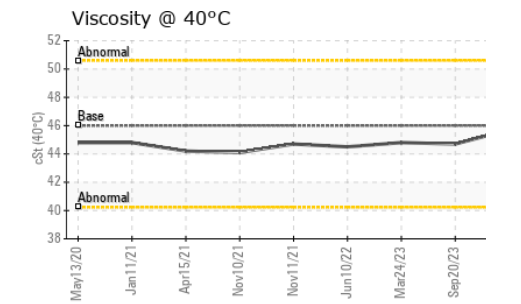
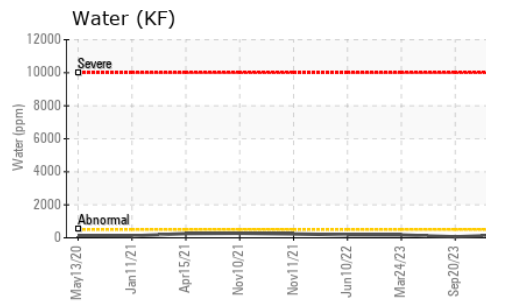
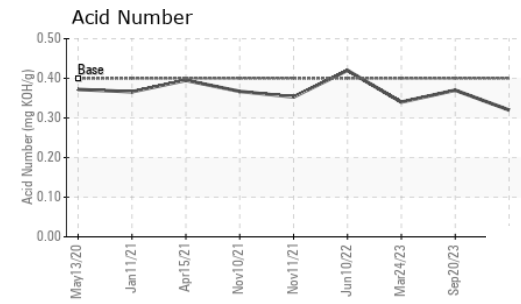
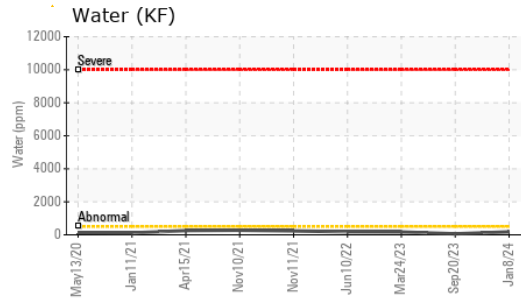
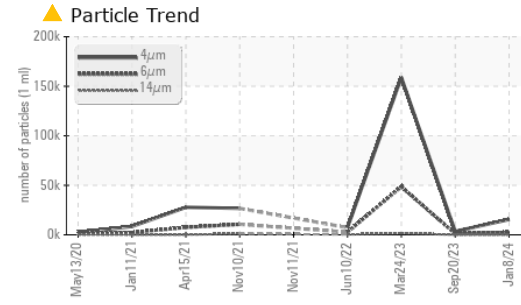
## FLUID CLEANLINESS

method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	<b>15588</b>	3421	158858
Particles >6µm	ASTM D7647 >1300	<b>▲ 2487</b>	1076	▲ 48543
Particles >14µm	ASTM D7647 >80	<b>▲ 113</b>	53	▲ 1525
Particles >21µm	ASTM D7647 >20	<b>▲ 27</b>	9	▲ 341
Particles >38µm	ASTM D7647 >4	<b>1</b>	0	▲ 9
Particles >71µm	ASTM D7647 >3	<b>0</b>	0	0
Oil Cleanliness	ISO 4406 (c) >--/17/13	<b>▲ 21/18/14</b>	19/17/13	▲ 24/23/18

## FLUID DEGRADATION

method	limit/base	current	history1	history2	
Acid Number (AN)	mg KOH/g	ASTM D8045 0.4	<b>0.32</b>	0.37	0.34

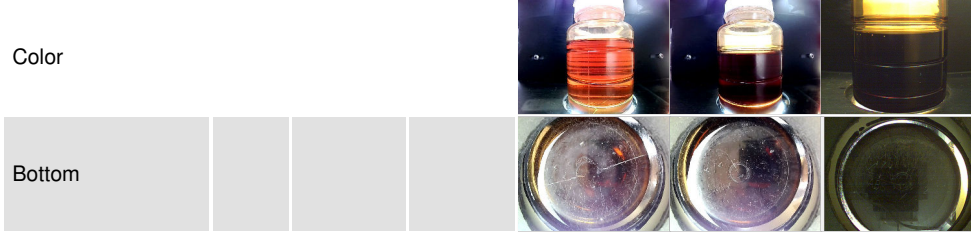
# OIL ANALYSIS REPORT



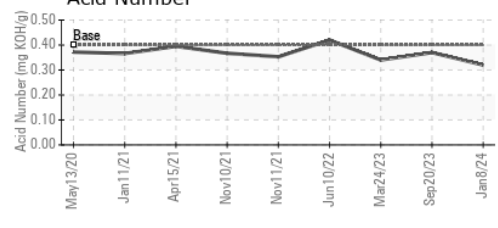
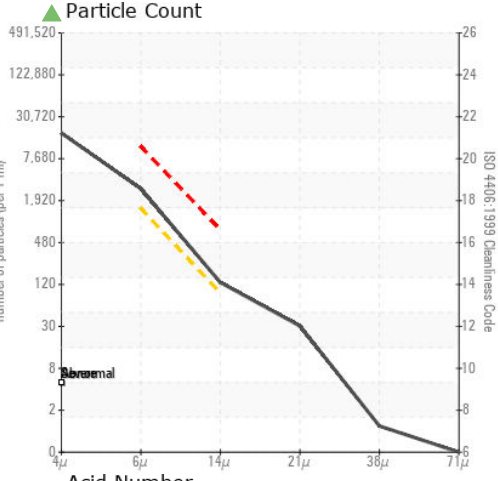
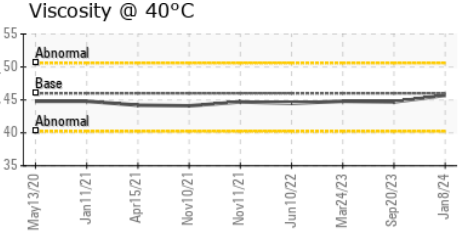
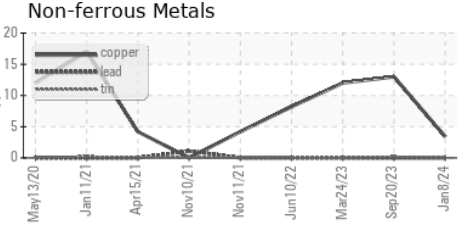
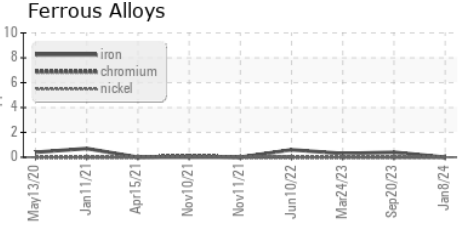
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance	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	45.7	44.7	44.8

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



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : KC127479 **Received** : 19 Jan 2024  
**Lab Number** : 06065616 **Diagnosed** : 22 Jan 2024  
**Unique Number** : 10836998 **Diagnostician** : Don Baldrige  
**Test Package** : IND 2

**AMAZON.COM PHL4**  
 21 ROADWAY DR  
 CARLISLE, PA  
 US 17015  
 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)