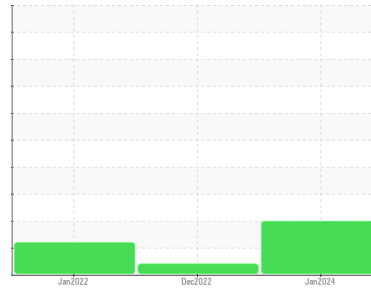


# OIL ANALYSIS REPORT

Sample Rating Trend



ISO



Machine Id  
**KAESER 7471792 (S/N 1354)**

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 high 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>KCPA004876</b>	KCP53158	KCP38134
Sample Date	Client Info		<b>27 Jan 2024</b>	13 Dec 2022	28 Jan 2022
Machine Age	hrs	Client Info	<b>16619</b>	9791	5129
Oil Age	hrs	Client Info	<b>0</b>	3000	5129
Oil Changed	Client Info		<b>N/A</b>	Changed	Changed
Sample Status			<b>ABNORMAL</b>	ABNORMAL	ABNORMAL

**WEAR METALS**

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >50	<b>0</b>	0	<1
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>&lt;1</b>	0	0
Silver	ppm	ASTM D5185m >2	<b>0</b>	<1	<1
Aluminum	ppm	ASTM D5185m >10	<b>0</b>	0	<1
Lead	ppm	ASTM D5185m >10	<b>&lt;1</b>	0	0
Copper	ppm	ASTM D5185m >50	<b>19</b>	19	23
Tin	ppm	ASTM D5185m >10	<b>&lt;1</b>	<1	0
Antimony	ppm	ASTM D5185m	<b>---</b>	---	<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>	0	0
Barium	ppm	ASTM D5185m 90	<b>0</b>	0	0
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>0</b>	0	7
Calcium	ppm	ASTM D5185m 0	<b>0</b>	<1	0
Phosphorus	ppm	ASTM D5185m 0	<b>0</b>	2	10
Zinc	ppm	ASTM D5185m 0	<b>0</b>	18	10
Sulfur	ppm	ASTM D5185m 23500	<b>16545</b>	20472	16444

**CONTAMINANTS**

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >25	<b>2</b>	2	<1
Sodium	ppm	ASTM D5185m	<b>&lt;1</b>	3	3
Potassium	ppm	ASTM D5185m >20	<b>0</b>	0	1
Water	%	ASTM D6304 >0.05	<b>0.006</b>	0.021	0.004
ppm Water	ppm	ASTM D6304 >500	<b>65</b>	215.3	41.2

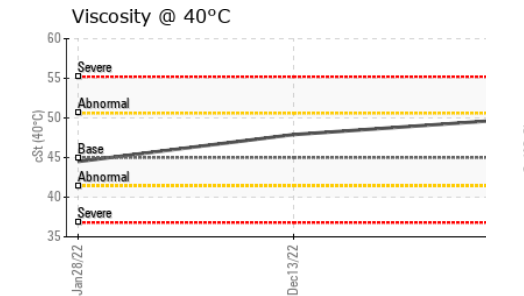
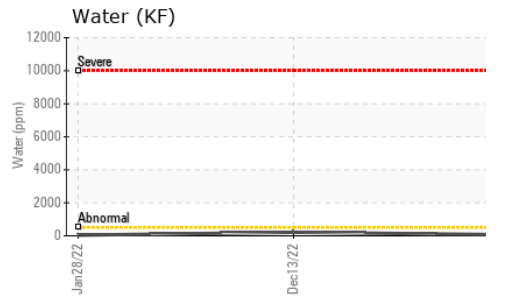
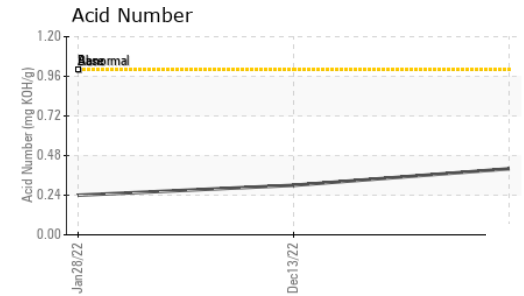
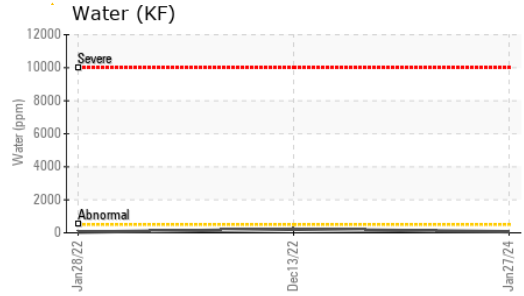
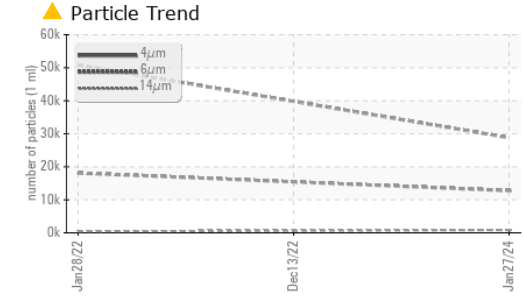
**FLUID CLEANLINESS**

	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647		<b>28811</b>	---	50818
Particles >6µm	ASTM D7647	>1300	<b>▲ 12756</b>	---	▲ 18104
Particles >14µm	ASTM D7647	>80	<b>▲ 833</b>	---	▲ 412
Particles >21µm	ASTM D7647	>20	<b>▲ 177</b>	---	▲ 77
Particles >38µm	ASTM D7647	>4	<b>▲ 5</b>	---	3
Particles >71µm	ASTM D7647	>3	<b>1</b>	---	0
Oil Cleanliness	ISO 4406 (c)	>--/17/13	<b>▲ 22/21/17</b>	---	▲ 21/16

**FLUID DEGRADATION**

	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045 1.0	<b>0.40</b>	0.30	0.24

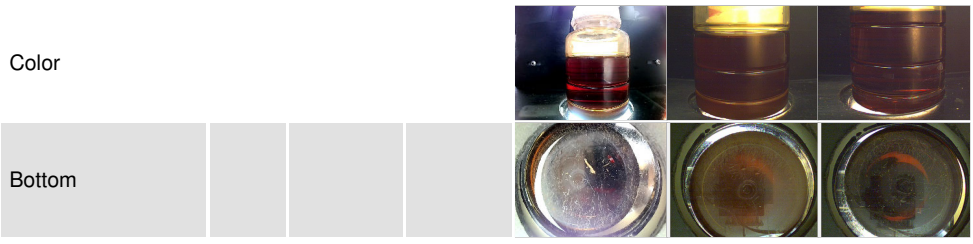
# OIL ANALYSIS REPORT



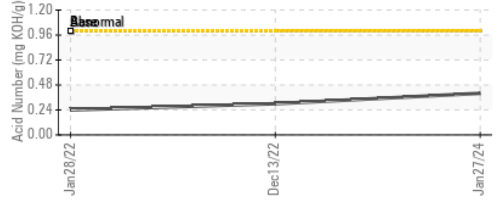
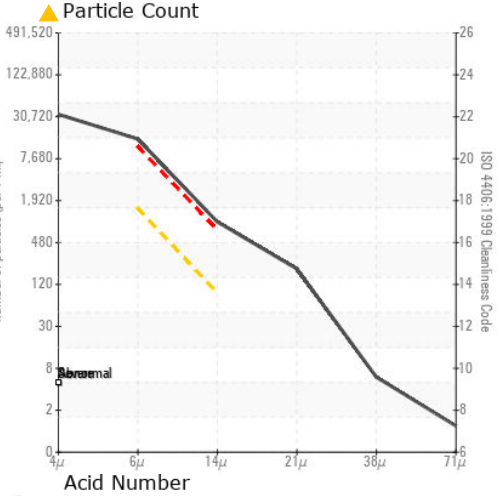
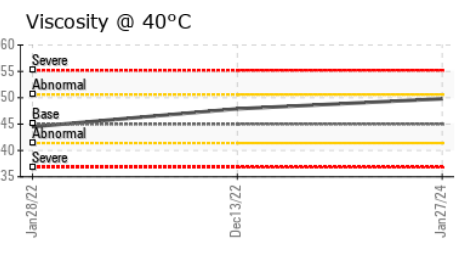
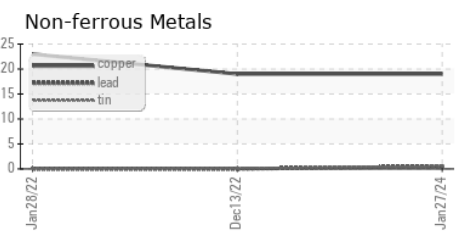
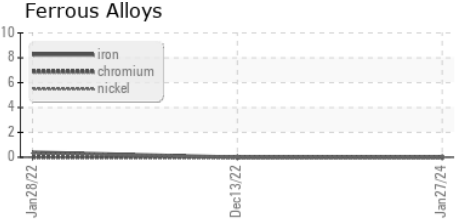
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	▲ MODER
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance	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	49.8	47.9

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



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : KCPA004876 **Received** : 01 Feb 2024  
**Lab Number** : 06076857 **Diagnosed** : 02 Feb 2024  
**Unique Number** : 10858948 **Diagnostician** : Don Baldrige  
**Test Package** : IND 2 ( Additional Tests: KF, PrtCount )

**ACE HARDWARE**  
 1101 E PLEASANT RUN RD  
 WILMER, TX  
 US 75172  
 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)

T:  
F: