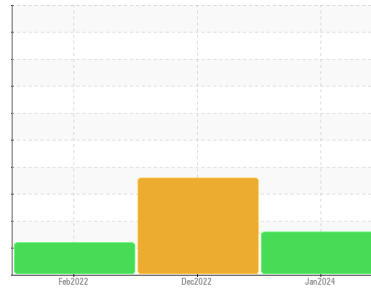


# OIL ANALYSIS REPORT

## Sample Rating Trend



ISO



Machine Id  
**KAESER 7475767 (S/N 1359)**

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>KCPA004786</b>	KCP53155	KCP35467
Sample Date	Client Info	<b>27 Jan 2024</b>	13 Dec 2022	22 Feb 2022
Machine Age	hrs	<b>14048</b>	8552	5114
Oil Age	hrs	<b>0</b>	380	5114
Oil Changed	Client Info	<b>N/A</b>	Not Changd	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	0
Titanium	ppm	ASTM D5185m >3	<b>&lt;1</b>	0	0
Silver	ppm	ASTM D5185m >2	<b>0</b>	0	<1
Aluminum	ppm	ASTM D5185m >10	<b>0</b>	<1	<1
Lead	ppm	ASTM D5185m >10	<b>&lt;1</b>	<1	0
Copper	ppm	ASTM D5185m >50	<b>3</b>	12	9
Tin	ppm	ASTM D5185m >10	<b>&lt;1</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 0	<b>0</b>	0	0
Barium	ppm	ASTM D5185m 90	<b>&lt;1</b>	52	15
Molybdenum	ppm	ASTM D5185m 0	<b>0</b>	0	0
Manganese	ppm	ASTM D5185m	<b>&lt;1</b>	0	<1
Magnesium	ppm	ASTM D5185m 100	<b>56</b>	78	38
Calcium	ppm	ASTM D5185m 0	<b>0</b>	0	<1
Phosphorus	ppm	ASTM D5185m 0	<b>0</b>	1	4
Zinc	ppm	ASTM D5185m 0	<b>23</b>	15	17
Sulfur	ppm	ASTM D5185m 23500	<b>18387</b>	21779	15558

### CONTAMINANTS

method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185m >25	<b>&lt;1</b>	1	<1
Sodium	ppm	ASTM D5185m	<b>20</b>	6	7
Potassium	ppm	ASTM D5185m >20	<b>4</b>	0	4
Water	%	ASTM D6304 >0.05	<b>0.016</b>	▲ 0.067	0.018
ppm Water	ppm	ASTM D6304 >500	<b>162</b>	▲ 678.1	182.7

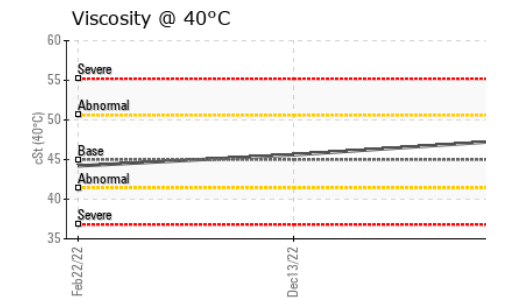
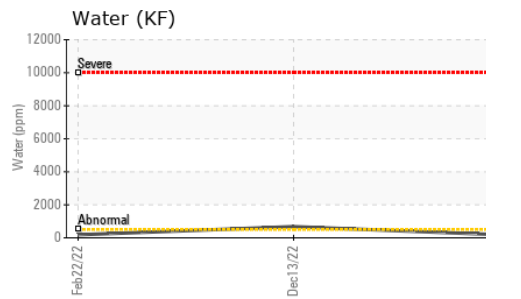
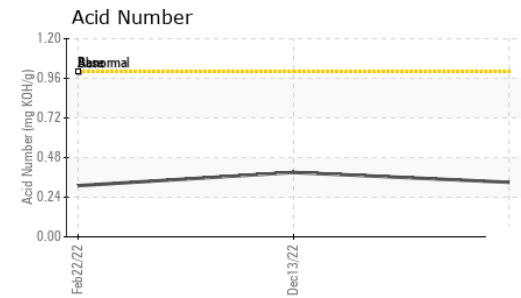
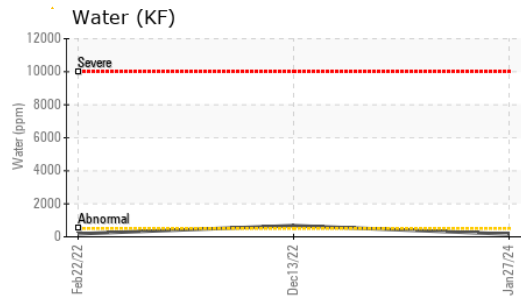
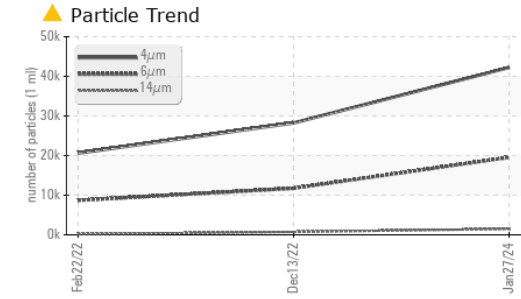
### FLUID CLEANLINESS

method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	<b>42232</b>	28242	20599
Particles >6µm	ASTM D7647 >1300	▲ <b>19539</b>	▲ 11738	▲ 8691
Particles >14µm	ASTM D7647 >80	▲ <b>1492</b>	▲ 723	▲ 169
Particles >21µm	ASTM D7647 >20	▲ <b>231</b>	▲ 144	▲ 22
Particles >38µm	ASTM D7647 >4	<b>2</b>	▲ 14	2
Particles >71µm	ASTM D7647 >3	<b>0</b>	1	0
Oil Cleanliness	ISO 4406 (c) >--/17/13	▲ <b>23/21/18</b>	▲ 22/21/17	▲ 20/15

### FLUID DEGRADATION

method	limit/base	current	history1	history2	
Acid Number (AN)	mg KOH/g	ASTM D8045 1.0	<b>0.33</b>	0.39	0.31

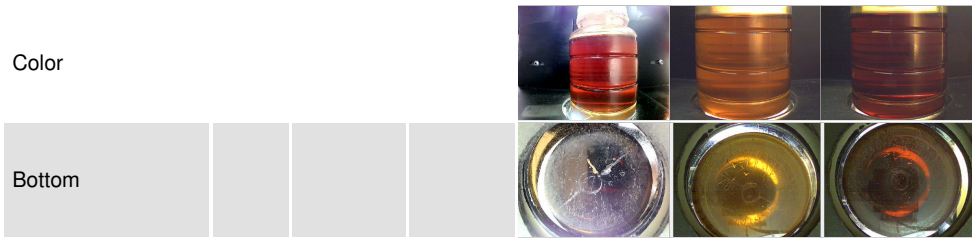
# OIL ANALYSIS REPORT



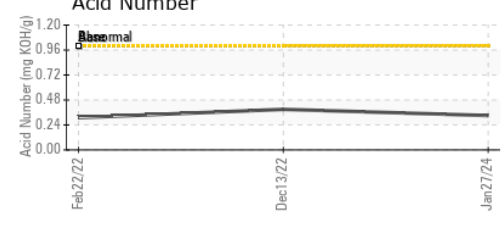
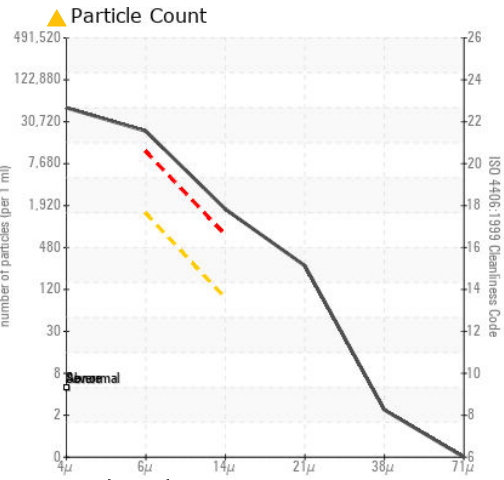
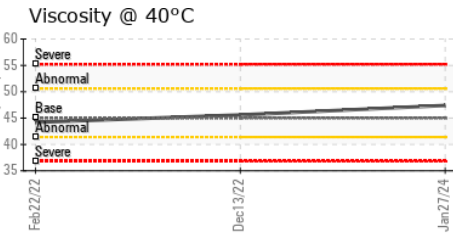
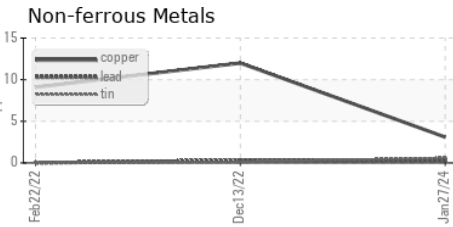
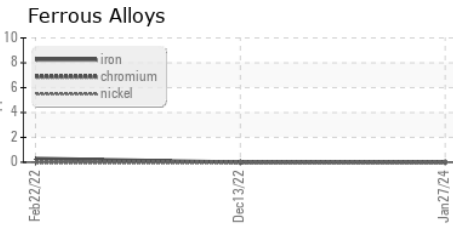
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	LIGHT	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance	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	45	47.4	45.6	44.2

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



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : KCPA004786 **Received** : 01 Feb 2024  
**Lab Number** : 06076867 **Diagnosed** : 02 Feb 2024  
**Unique Number** : 10858958 **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: