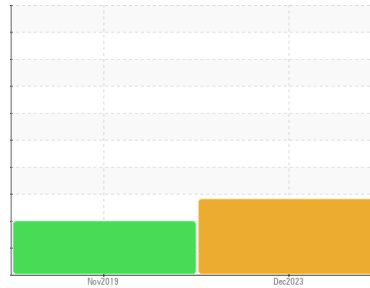




# OIL ANALYSIS REPORT

Sample Rating Trend



Machine Id  
**KAESER AS 31 1381596 (S/N 1005)**

Component  
**Compressor**  
Fluid  
**KAESER SIGMA (OEM) S-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>KCPA009082</b>	KCP20811	---
Sample Date	Client Info			<b>13 Dec 2023</b>	25 Nov 2019	---
Machine Age	hrs	Client Info		<b>41561</b>	30457	---
Oil Age	hrs	Client Info		<b>0</b>	3146	---
Oil Changed	Client Info			<b>N/A</b>	Changed	---
Sample Status				<b>ABNORMAL</b>	ABNORMAL	---

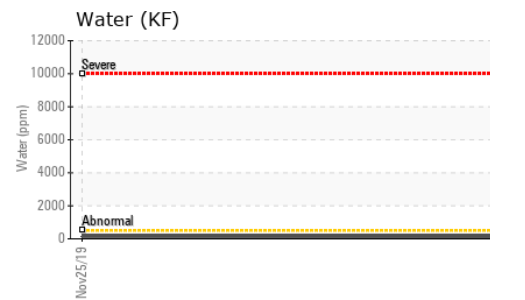
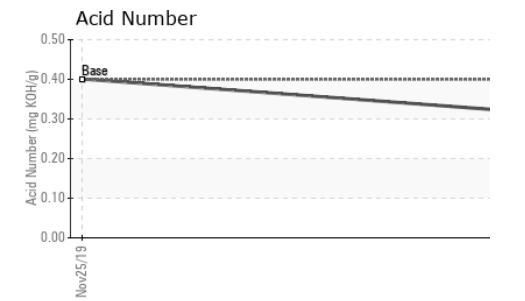
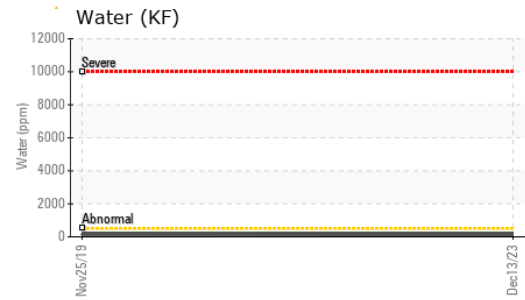
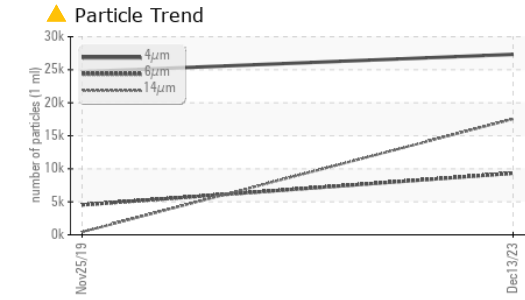
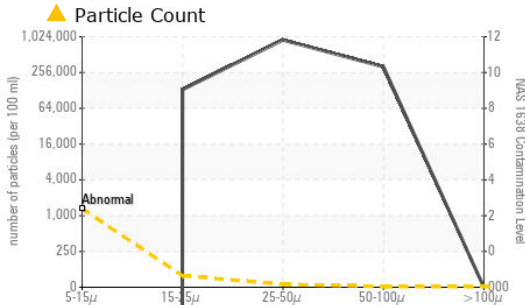
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>50	<1	2	---
Chromium	ppm	ASTM D5185m	>10	<1	<1	---
Nickel	ppm	ASTM D5185m	>3	0	<1	---
Titanium	ppm	ASTM D5185m	>3	<1	0	---
Silver	ppm	ASTM D5185m	>2	0	<1	---
Aluminum	ppm	ASTM D5185m	>10	2	1	---
Lead	ppm	ASTM D5185m	>10	0	<1	---
Copper	ppm	ASTM D5185m	>50	2	3	---
Tin	ppm	ASTM D5185m	>10	<1	<1	---
Antimony	ppm	ASTM D5185m		---	0	---
Vanadium	ppm	ASTM D5185m		0	0	---
Cadmium	ppm	ASTM D5185m		0	0	---

ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		0	<1	---
Barium	ppm	ASTM D5185m	90	1	2	---
Molybdenum	ppm	ASTM D5185m		0	0	---
Manganese	ppm	ASTM D5185m		<1	<1	---
Magnesium	ppm	ASTM D5185m	90	74	74	---
Calcium	ppm	ASTM D5185m	2	2	<1	---
Phosphorus	ppm	ASTM D5185m		27	3	---
Zinc	ppm	ASTM D5185m		0	11	---
Sulfur	ppm	ASTM D5185m		23001	5202	---

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	0	0	---
Sodium	ppm	ASTM D5185m		17	16	---
Potassium	ppm	ASTM D5185m	>20	5	5	---
Water	%	ASTM D6304	>0.05	0.014	0.015	---
ppm Water	ppm	ASTM D6304	>500	144	151.3	---

FLUID CLEANLINESS		method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647		27323	24705	---
Particles >6µm		ASTM D7647	>1300	▲ 9331	▲ 4529	---
Particles >14µm		ASTM D7647	>80	▲ 17545	▲ 427	---
Particles >21µm		ASTM D7647	>20	▲ 12618	▲ 158	---
Particles >38µm		ASTM D7647	>4	▲ 146	▲ 33	---
Particles >71µm		ASTM D7647	>3	▲ 36	▲ 3	---
Oil Cleanliness		ISO 4406 (c)	>--/17/13	▲ 20/18	▲ 19/16	---
Particles 5-15µm	count	*NAS 1638	>1300	-814325	---	---
Particles 15-25µm	count	*NAS 1638	>80	131810	---	---
Particles 25-50µm	count	*NAS 1638	>20	900928	---	---
Particles 50-100µm	count	*NAS 1638	>4	318682	---	---

# OIL ANALYSIS REPORT

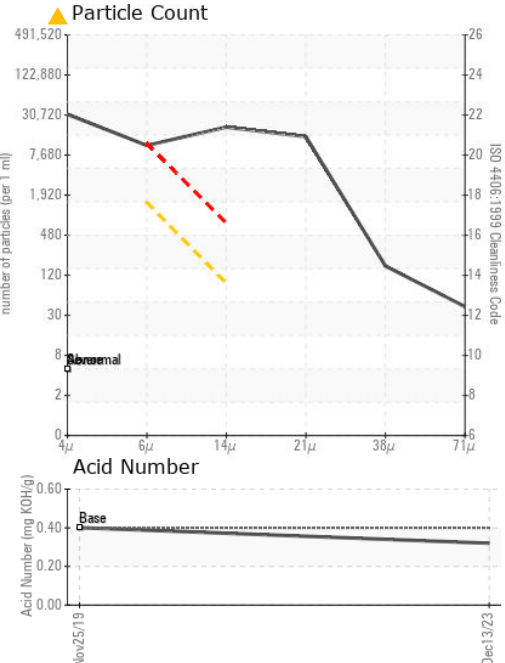
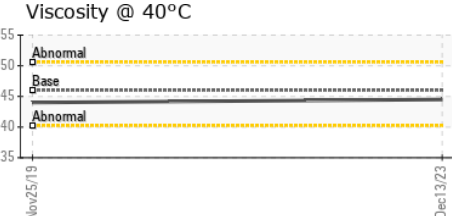
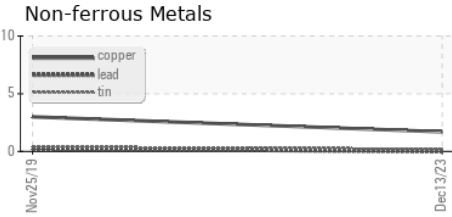
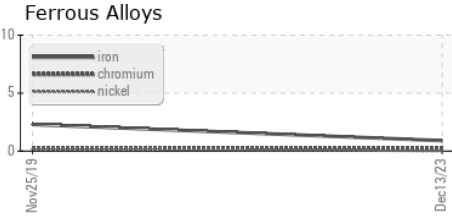


FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	0.4	<b>0.32</b>	0.401	---
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	---
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	---
Precipitate	scalar	*Visual	NONE	<b>NONE</b>	NONE	---
Silt	scalar	*Visual	NONE	<b>NONE</b>	NONE	---
Debris	scalar	*Visual	NONE	<b>NONE</b>	LIGHT	---
Sand/Dirt	scalar	*Visual	NONE	<b>NONE</b>	NONE	---
Appearance	scalar	*Visual	NORML	<b>NORML</b>	NORML	---
Odor	scalar	*Visual	NORML	<b>NORML</b>	NORML	---
Emulsified Water	scalar	*Visual	>0.05	<b>NEG</b>	NEG	---
Free Water	scalar	*Visual		<b>NEG</b>	NEG	---

FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	46	<b>44.5</b>	44.0	---

SAMPLE IMAGES		method	limit/base	current	history1	history2
Color						no image
Bottom						no image

## GRAPHS



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : KCPA009082 **Received** : 18 Jan 2024  
**Lab Number** : 06065028 **Diagnosed** : 02 Feb 2024  
**Unique Number** : 10836410 **Diagnostician** : Doug Bogart  
**Test Package** : IND 2 ( Additional Tests: KF, PrtCount, PrtCountNAS )

**MYRIAD MACHINE**  
 5 S COUNTRY ESTATES RD  
 LIBERAL, KS  
 US 67905  
 Contact: Service Manager  
 myriadmich@gmail.com

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)