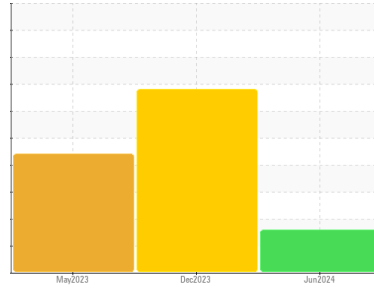




# OIL ANALYSIS REPORT

Sample Rating Trend



ISO



Machine Id  
**KAESER 7446616**

Component  
**Compressor**  
Fluid  
**KAESER SIGMA (OEM) S-460 (--- GAL)**

## DIAGNOSIS

### Recommendation

Oil and 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>KCPA017273</b>	KCPA010328	KCP53742
Sample Date	Client Info			<b>07 Jun 2024</b>	07 Dec 2023	15 May 2023
Machine Age	hrs	Client Info		<b>6139</b>	5374	4486
Oil Age	hrs	Client Info		<b>3370</b>	0	1717
Oil Changed	Client Info			<b>Changed</b>	N/A	Not Changd
Sample Status				<b>ABNORMAL</b>	SEVERE	ABNORMAL

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>50	<b>1</b>	0	<1
Chromium	ppm	ASTM D5185m	>10	<b>&lt;1</b>	<1	<1
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>2</b>	2	<1
Lead	ppm	ASTM D5185m	>10	<b>&lt;1</b>	0	<1
Copper	ppm	ASTM D5185m	>50	<b>16</b>	16	11
Tin	ppm	ASTM D5185m	>10	<b>&lt;1</b>	0	<1
Vanadium	ppm	ASTM D5185m		<b>0</b>	0	0
Cadmium	ppm	ASTM D5185m		<b>0</b>	0	0

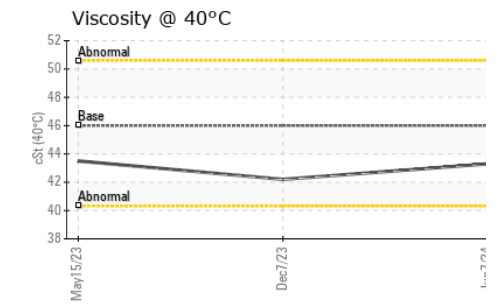
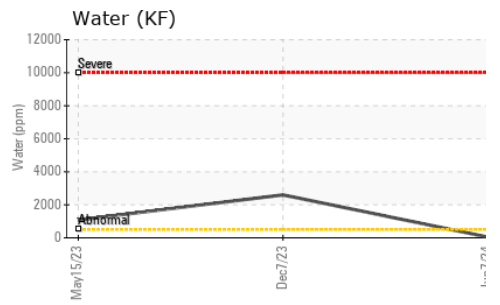
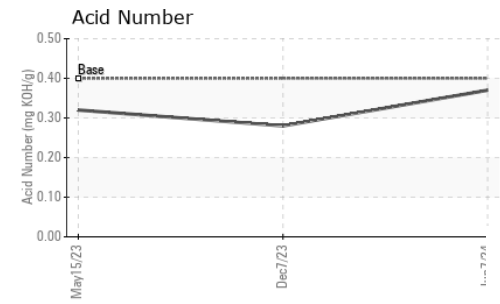
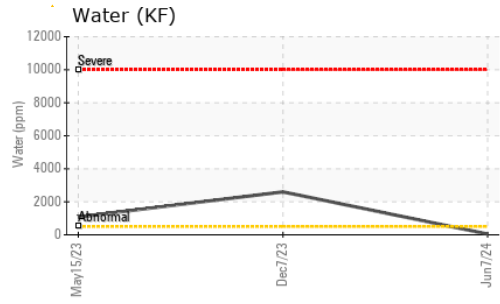
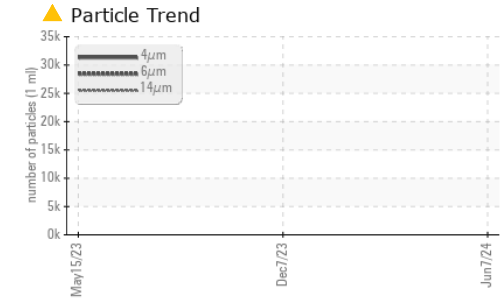
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		<b>0</b>	0	0
Barium	ppm	ASTM D5185m	90	<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185m		<b>&lt;1</b>	0	<1
Manganese	ppm	ASTM D5185m		<b>0</b>	0	<1
Magnesium	ppm	ASTM D5185m	90	<b>&lt;1</b>	1	17
Calcium	ppm	ASTM D5185m	2	<b>0</b>	<1	0
Phosphorus	ppm	ASTM D5185m		<b>2</b>	42	0
Zinc	ppm	ASTM D5185m		<b>3</b>	<1	41
Sulfur	ppm	ASTM D5185m		<b>18279</b>	18716	19728

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	<b>&lt;1</b>	4	2
Sodium	ppm	ASTM D5185m		<b>0</b>	0	2
Potassium	ppm	ASTM D5185m	>20	<b>&lt;1</b>	<1	2
Water	%	ASTM D6304	>0.05	<b>0.004</b>	▲ 0.260	▲ 0.108
ppm Water	ppm	ASTM D6304	>500	<b>45</b>	▲ 2600	▲ 1080

FLUID CLEANLINESS		method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647		<b>30923</b>	---	---
Particles >6µm		ASTM D7647	>1300	▲ <b>9709</b>	---	---
Particles >14µm		ASTM D7647	>80	▲ <b>452</b>	---	---
Particles >21µm		ASTM D7647	>20	▲ <b>73</b>	---	---
Particles >38µm		ASTM D7647	>4	<b>3</b>	---	---
Particles >71µm		ASTM D7647	>3	<b>0</b>	---	---
Oil Cleanliness		ISO 4406 (c)	>17/13	▲ <b>20/16</b>	---	---

FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	0.4	<b>0.37</b>	0.28	0.32

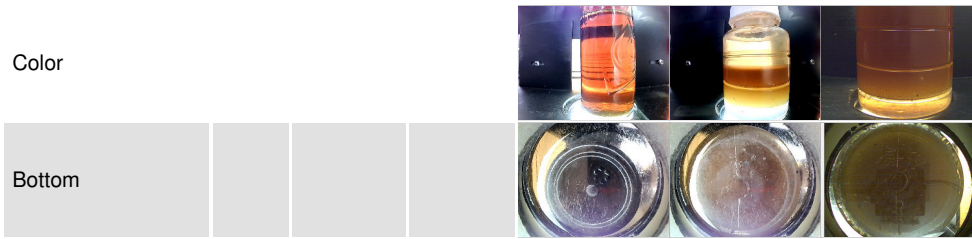
# OIL ANALYSIS REPORT



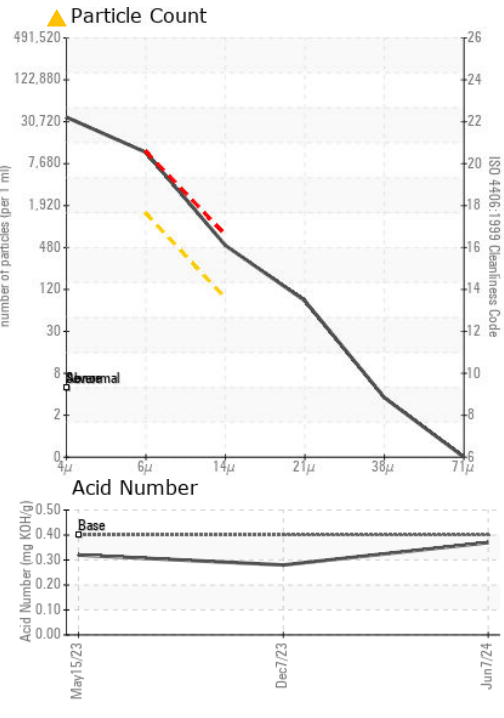
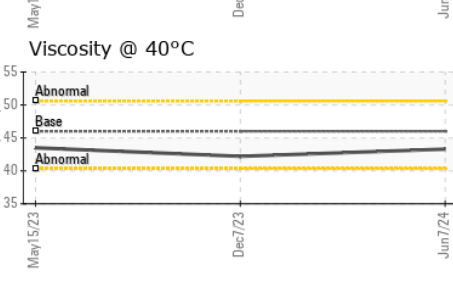
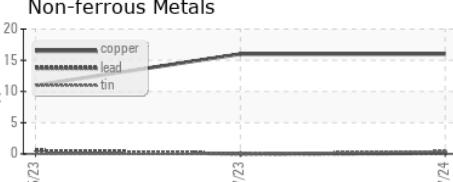
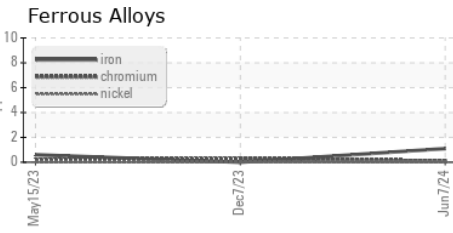
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	▲ MODER
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	● HAZY
Odor	scalar	*Visual	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.05	NEG	▲ 0.2%
Free Water	scalar	*Visual		NEG	▲ >10

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	46	43.3	42.2

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



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : KCPA017273  
**Lab Number** : 06209249  
**Unique Number** : 11076710  
**Test Package** : IND 2 ( Additional Tests: KF, PrtCount )

**Received** : 13 Jun 2024  
**Tested** : 16 Jun 2024  
**Diagnosed** : 16 Jun 2024 - Doug Bogart

**HOC INDUSTRIES**  
 3511 N OHIO ST  
 WICHITA, KS  
 US 67219  
 Contact: C. KELLY  
 ckelly@hocindustries.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)