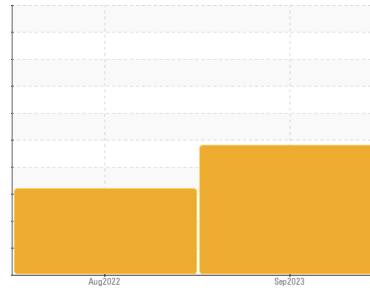


# OIL ANALYSIS REPORT

## Sample Rating Trend



**WATER**



Machine Id  
**KAESER SX 7.5 7586692 (S/N 1320)**

Component  
**Compressor**

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

### DIAGNOSIS

#### ▲ Recommendation

The filter change at the time of sampling has been noted. We advise that you stop the unit and follow the water drain-off procedure for this component. We recommend an early resample in 500 hours to monitor this condition.

#### ▲ Wear

The aluminum level is abnormal. The iron level is marginal.

#### ▲ Contamination

There is a high amount of particulates present in the oil. There is a light concentration of water 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>KCP40054D</b>	KCP48293	---
Sample Date	Client Info			<b>13 Sep 2023</b>	21 Aug 2022	---
Machine Age	hrs	Client Info		<b>3112</b>	1565	---
Oil Age	hrs	Client Info		<b>0</b>	1000	---
Oil Changed	Client Info			<b>Not Chngd</b>	Changed	---
Sample Status				<b>ABNORMAL</b>	ABNORMAL	---

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>50	▲ <b>48</b>	3	---
Chromium	ppm	ASTM D5185m	>10	<b>0</b>	0	---
Nickel	ppm	ASTM D5185m	>3	<b>0</b>	0	---
Titanium	ppm	ASTM D5185m	>3	<b>0</b>	0	---
Silver	ppm	ASTM D5185m	>2	<b>0</b>	0	---
Aluminum	ppm	ASTM D5185m	>10	▲ <b>20</b>	2	---
Lead	ppm	ASTM D5185m	>10	<b>0</b>	0	---
Copper	ppm	ASTM D5185m	>50	<b>6</b>	5	---
Tin	ppm	ASTM D5185m	>10	<b>0</b>	0	---
Vanadium	ppm	ASTM D5185m		<b>0</b>	0	---
Cadmium	ppm	ASTM D5185m		<b>0</b>	0	---

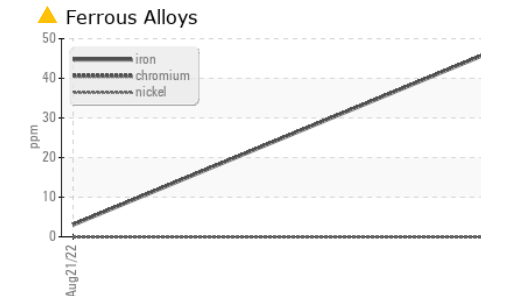
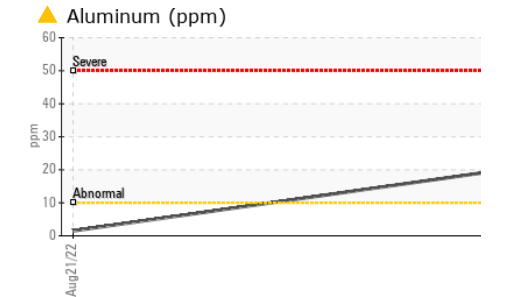
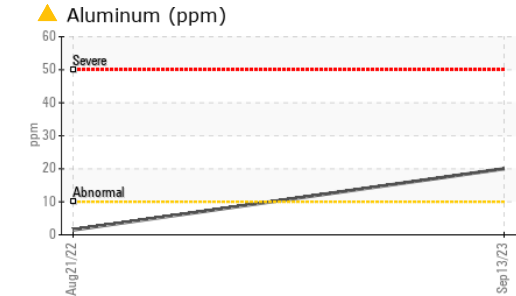
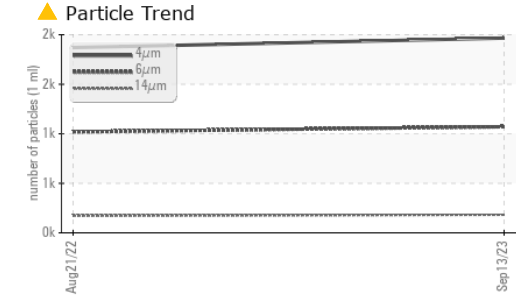
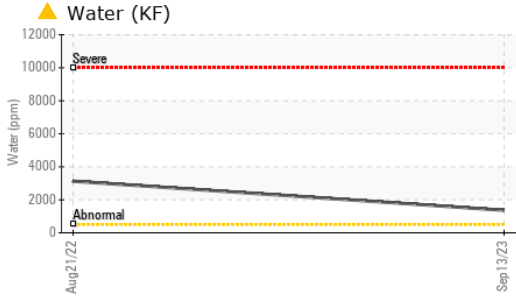
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		<b>0</b>	0	---
Barium	ppm	ASTM D5185m		<b>0</b>	0	---
Molybdenum	ppm	ASTM D5185m		<b>0</b>	0	---
Manganese	ppm	ASTM D5185m		<b>0</b>	<1	---
Magnesium	ppm	ASTM D5185m		<b>0</b>	13	---
Calcium	ppm	ASTM D5185m		<b>0</b>	<1	---
Phosphorus	ppm	ASTM D5185m	500	<b>436</b>	5	---
Zinc	ppm	ASTM D5185m		<b>562</b>	15	---
Sulfur	ppm	ASTM D5185m		<b>3254</b>	18917	---

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	<b>&lt;1</b>	<1	---
Sodium	ppm	ASTM D5185m		<b>2</b>	5	---
Potassium	ppm	ASTM D5185m	>20	<b>0</b>	5	---
Water	%	ASTM D6304	>0.05	▲ <b>0.137</b>	▲ 0.313	---
ppm Water	ppm	ASTM D6304	>500	▲ <b>1367</b>	▲ 3130	---

FLUID CLEANLINESS		method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647		<b>1966</b>	1870	---
Particles >6µm		ASTM D7647	>1300	<b>1071</b>	1019	---
Particles >14µm		ASTM D7647	>80	▲ <b>182</b>	▲ 173	---
Particles >21µm		ASTM D7647	>20	▲ <b>61</b>	▲ 58	---
Particles >38µm		ASTM D7647	>4	▲ <b>9</b>	▲ 9	---
Particles >71µm		ASTM D7647	>3	<b>1</b>	1	---
Oil Cleanliness		ISO 4406 (c)	>--/17/13	▲ <b>18/17/15</b>	▲ 18/17/15	---

FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	1.5	<b>1.11</b>	0.34	---

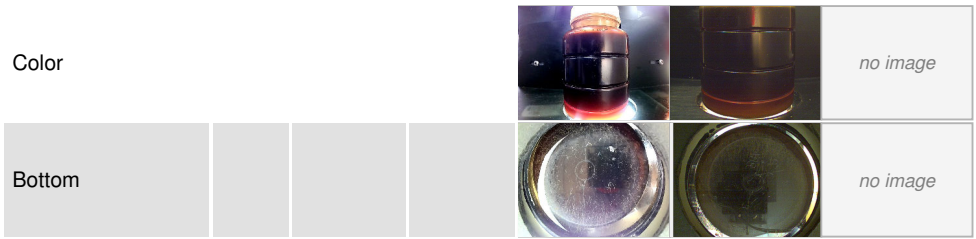
# OIL ANALYSIS REPORT



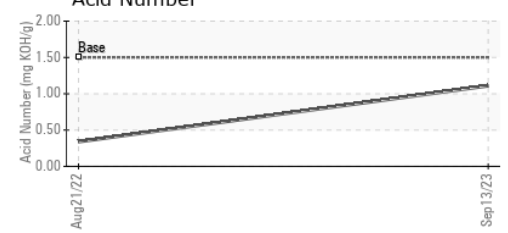
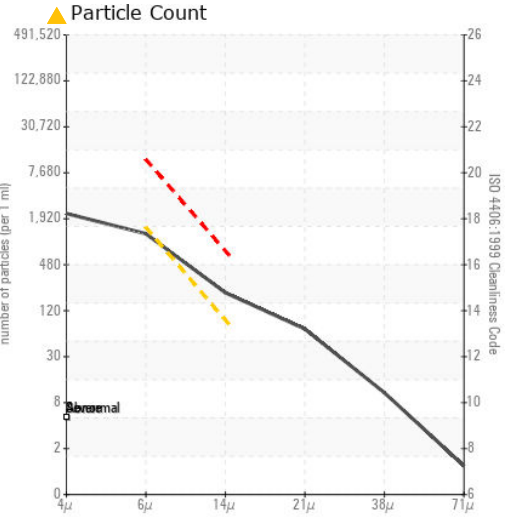
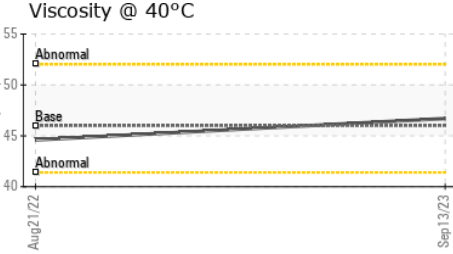
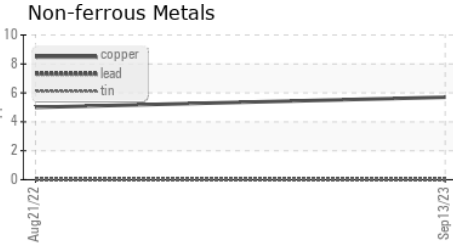
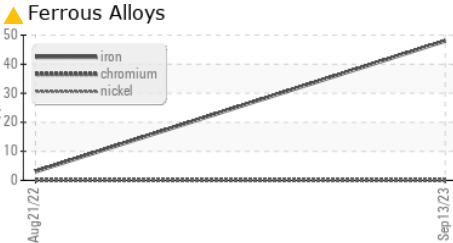
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	VLITE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance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

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	46	46.7	44.6

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



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : KCP40054D **Recieved** : 30 Jan 2024  
**Lab Number** : 06073989 **Diagnosed** : 02 Feb 2024  
**Unique Number** : 10856080 **Diagnostician** : Jonathan Hester  
**Test Package** : IND 2 ( Additional Tests: KF, PrtCount )

**RIVER OAKS ORCHARDS**  
 9839 HUTCHINSON RD  
 MANTECA, CA  
 US 95337  
 Contact: BRAD  
 BRAD@RIVEROAKORCHARDS.COM  
 T:  
 F:

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)