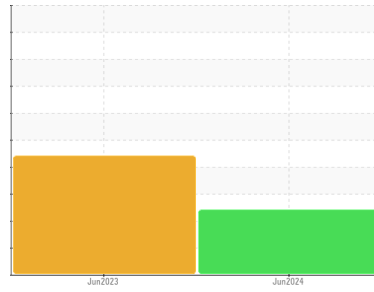




# OIL ANALYSIS REPORT

Sample Rating Trend



Machine Id  
**8384312 (S/N 1193)**  
 Component  
**Compressor**  
 Fluid  
**KAESER SIGMA (OEM) S-460 (--- LTR)**

## DIAGNOSIS

**Recommendation**  
 Oil and filter change at the time of sampling has been noted. No corrective action is recommended at this time. Resample at the next service interval to monitor.

**Wear**  
 All component wear rates are normal.

**Contamination**  
 There is a moderate amount of particulates present in the oil. Elemental level of silicon (Si) above normal indicating ingress of seal material.

**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>KC109400</b>	KC106078	---
Sample Date	Client Info		<b>11 Jun 2024</b>	15 Jun 2023	---
Machine Age	hrs	Client Info	<b>3423</b>	1743	---
Oil Age	hrs	Client Info	<b>1680</b>	1743	---
Oil Changed	Client Info		<b>Changed</b>	Changed	---
Sample Status			<b>ABNORMAL</b>	ABNORMAL	---

## WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >50	<b>0</b>	1	---
Chromium	ppm	ASTM D5185m >10	<b>0</b>	0	---
Nickel	ppm	ASTM D5185m >3	<b>0</b>	<1	---
Titanium	ppm	ASTM D5185m >3	<b>0</b>	0	---
Silver	ppm	ASTM D5185m >2	<b>0</b>	0	---
Aluminum	ppm	ASTM D5185m >10	<b>0</b>	0	---
Lead	ppm	ASTM D5185m >10	<b>0</b>	<1	---
Copper	ppm	ASTM D5185m >50	<b>7</b>	10	---
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 90	<b>0</b>	0	---
Molybdenum	ppm	ASTM D5185m	<b>0</b>	0	---
Manganese	ppm	ASTM D5185m	<b>0</b>	<1	---
Magnesium	ppm	ASTM D5185m 90	<b>19</b>	29	---
Calcium	ppm	ASTM D5185m 2	<b>0</b>	0	---
Phosphorus	ppm	ASTM D5185m	<b>0</b>	0	---
Zinc	ppm	ASTM D5185m	<b>9</b>	6	---

## CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >25	<b>▲ 98</b>	▲ 96	---
Sodium	ppm	ASTM D5185m	<b>7</b>	<1	---
Potassium	ppm	ASTM D5185m >20	<b>&lt;1</b>	1	---
Water	%	ASTM D6304 >0.05	<b>0.015</b>	▲ 0.163	---
ppm Water	ppm	ASTM D6304 >500	<b>156</b>	▲ 1630	---

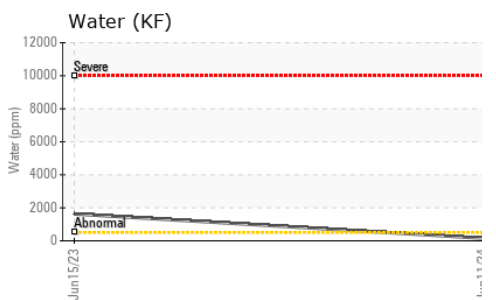
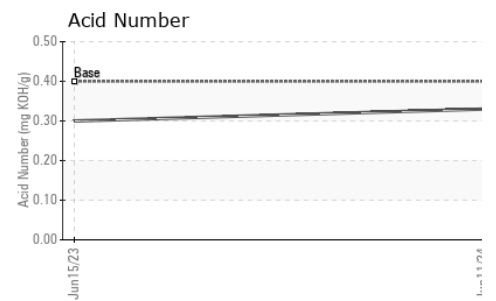
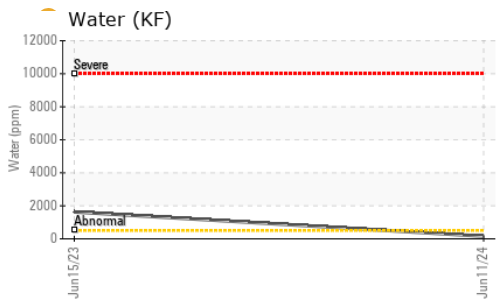
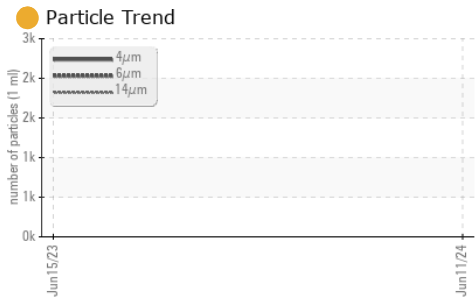
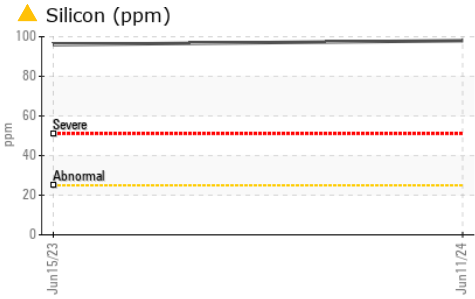
## FLUID CLEANLINESS

	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647		<b>2160</b>	---	---
Particles >6µm	ASTM D7647 >1300		<b>1191</b>	---	---
Particles >14µm	ASTM D7647 >80		<b>● 118</b>	---	---
Particles >21µm	ASTM D7647 >20		<b>17</b>	---	---
Particles >38µm	ASTM D7647 >4		<b>1</b>	---	---
Particles >71µm	ASTM D7647 >3		<b>0</b>	---	---
Oil Cleanliness	ISO 4406 (c) >--/17/13		<b>● 18/17/14</b>	---	---

## FLUID DEGRADATION

	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045 0.4	<b>0.33</b>	0.30	---

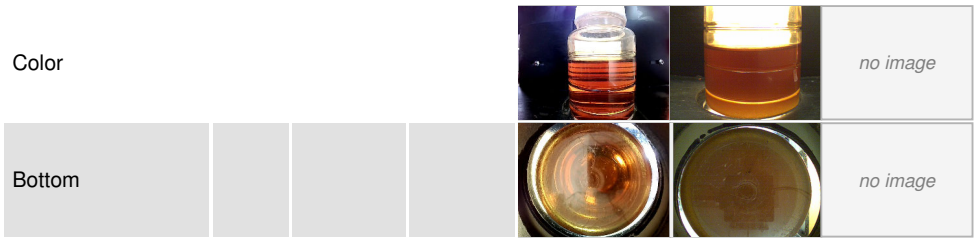
# OIL ANALYSIS REPORT



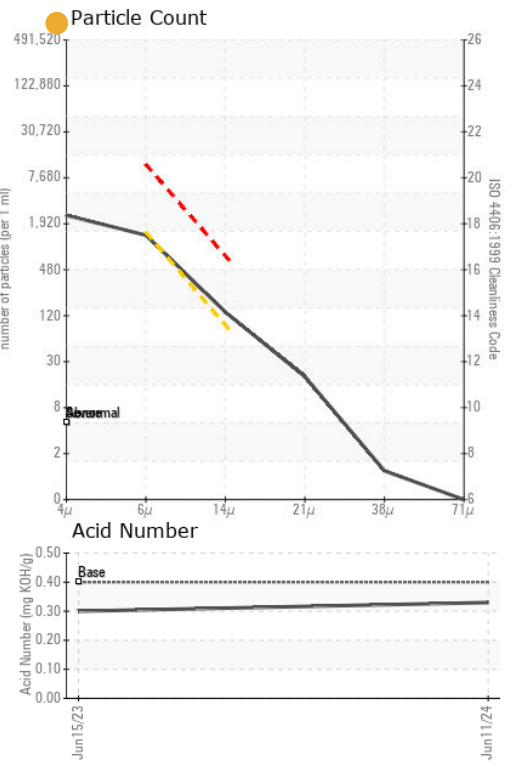
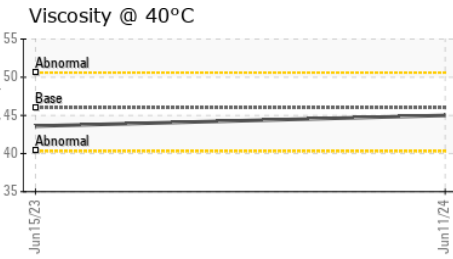
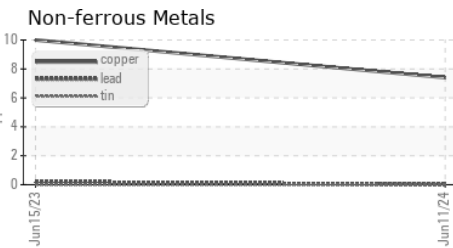
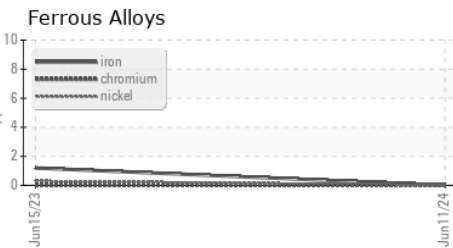
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	---
Precipitate	scalar	*Visual	NONE	NONE	---
Silt	scalar	*Visual	NONE	NONE	---
Debris	scalar	*Visual	NONE	NONE	▲ MODER
Sand/Dirt	scalar	*Visual	NONE	NONE	---
Appearance	scalar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

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	46	45.0	43.6

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



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : KC109400  
**Lab Number** : 06219715  
**Unique Number** : 11097912  
**Test Package** : IND 2  
**Received** : 25 Jun 2024  
**Tested** : 26 Jun 2024  
**Diagnosed** : 26 Jun 2024 - Don Baldrige

**INTER-TECH SUPPLIES INC**  
 802 E FAIRMONT ST  
 ALLENTOWN, PA  
 US 18106  
 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)