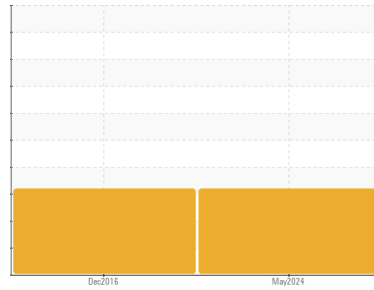




OIL ANALYSIS REPORT

Sample Rating Trend



Machine Id
KAESER BSV 100 4717112 (S/N 1013)
 Component
Compressor
 Fluid
KAESER SIGMA (OEM) S-460 (--- GAL)

DIAGNOSIS

Recommendation

Check seals and/or filters for points of contaminant entry. We recommend you service the filters on this component. 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. 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		KCPA012390	KCP61451	---
Sample Date	Client Info		03 May 2024	20 Dec 2016	---
Machine Age	hrs	Client Info	45519	136354	---
Oil Age	hrs	Client Info	3639	6518	---
Oil Changed		Client Info	N/A	Changed	---
Sample Status			ABNORMAL	ABNORMAL	---

WEAR METALS

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

ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	<1	---
Barium	ppm	ASTM D5185m 90	92	109	---
Molybdenum	ppm	ASTM D5185m	0	0	---
Manganese	ppm	ASTM D5185m	<1	<1	---
Magnesium	ppm	ASTM D5185m 90	89	113	---
Calcium	ppm	ASTM D5185m 2	3	3	---
Phosphorus	ppm	ASTM D5185m	15	0	---
Zinc	ppm	ASTM D5185m	3	2	---
Sulfur	ppm	ASTM D5185m	19790	8537	---

CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >25	▲ 102	▲ 51	---
Sodium	ppm	ASTM D5185m	13	12	---
Potassium	ppm	ASTM D5185m >20	3	1	---
Water	%	ASTM D6304 >0.05	0.031	0.026	---
ppm Water	ppm	ASTM D6304 >500	311	260	---

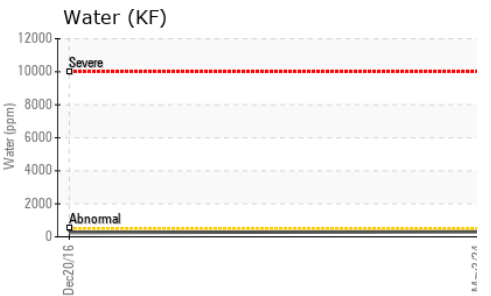
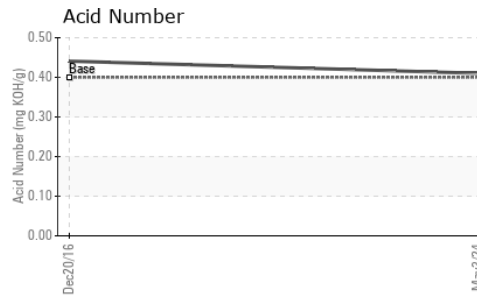
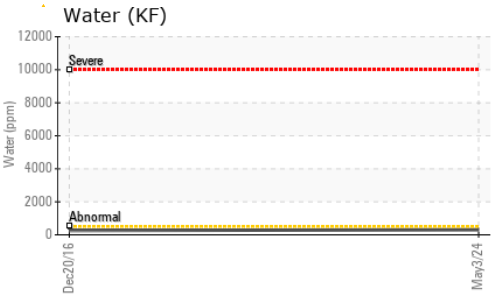
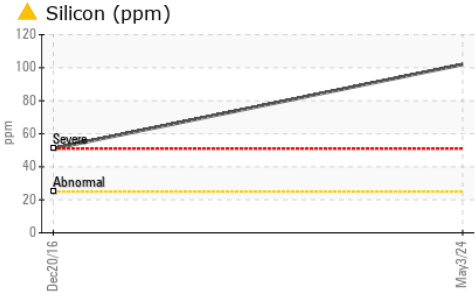
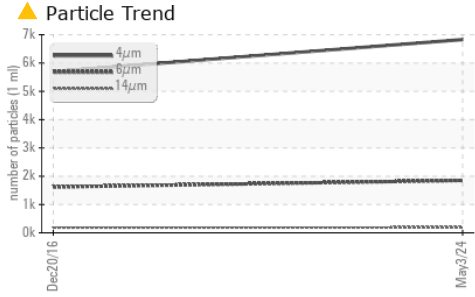
FLUID CLEANLINESS

	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647		6829	5696	---
Particles >6µm	ASTM D7647 >1300		● 1850	● 1619	---
Particles >14µm	ASTM D7647 >80		▲ 186	▲ 182	---
Particles >21µm	ASTM D7647 >20		▲ 49	▲ 46	---
Particles >38µm	ASTM D7647 >4		2	3	---
Particles >71µm	ASTM D7647 >3		0	0	---
Oil Cleanliness	ISO 4406 (c) >--/17/13		▲ 20/18/15	▲ 18/15	---

FLUID DEGRADATION

	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045 0.4	0.41	0.441	---

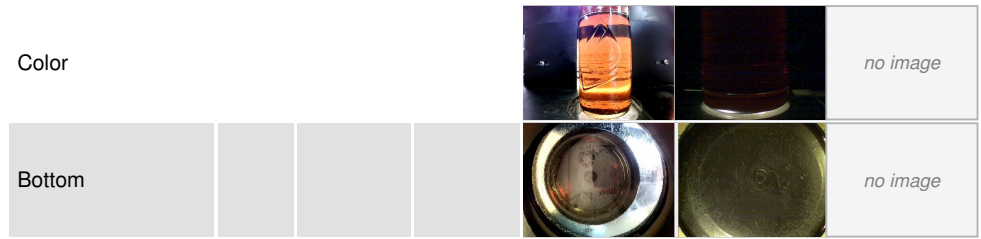
OIL ANALYSIS REPORT



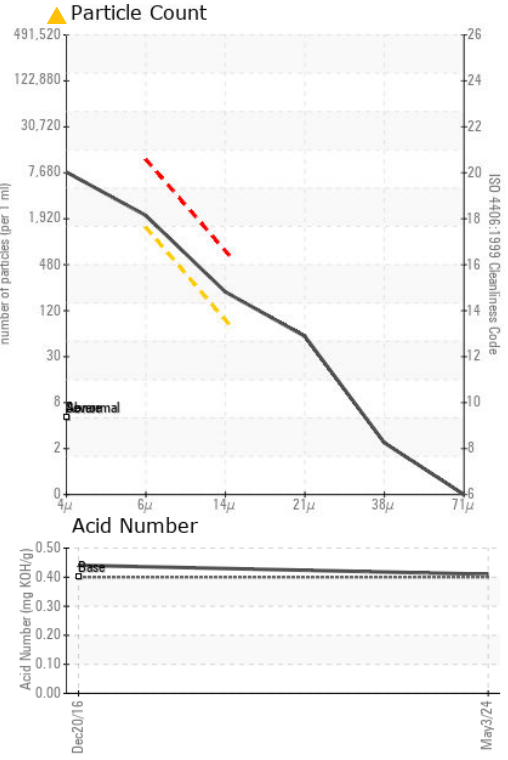
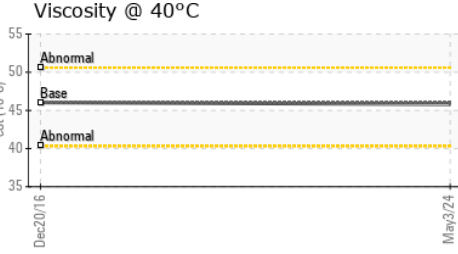
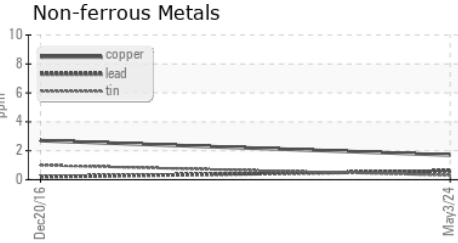
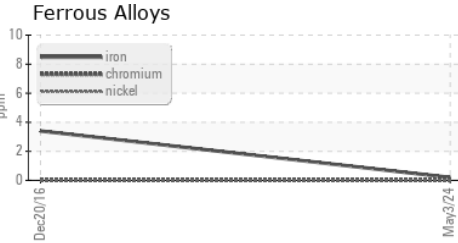
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	---
Precipitate	scalar	*Visual	NONE	NONE	---
Silt	scalar	*Visual	NONE	NONE	---
Debris	scalar	*Visual	NONE	NONE	---
Sand/Dirt	scalar	*Visual	NONE	NONE	---
Appearance	scalar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

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	46	45.8	46.03

SAMPLE IMAGES	method	limit/base	current	history1	history2
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GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : KCPA012390 **Received** : 29 May 2024
Lab Number : 06193978 **Tested** : 30 May 2024
Unique Number : 11056101 **Diagnosed** : 31 May 2024 - Angela Borella
Test Package : IND 2 (Additional Tests: KF, PrtCount)

HI-TEMP INSULATION INC
 705 CALLE PLANO
 CAMARILLO, CA
 US 93012
 Contact:

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)