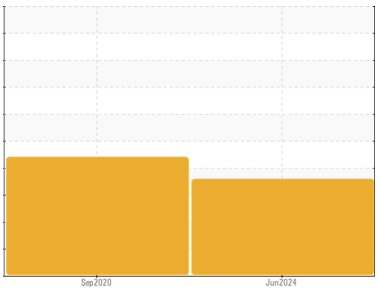
KAESER COMPRESSORS
Built for a lifetime.

OIL ANALYSIS REPORT

Sample Rating Trend



WATER

Machine Id
KAESER 5620737
Component
Compressor
Fluid
KAESER SIGMA (OEM) M-460 (--- GAL)

DIAGNOSIS

▲ Recommendation
Oil and filter change at the time of sampling has been noted. We were unable to perform a particle count due to a high concentration of particles present in this sample. We recommend an early resample in 500 hours to monitor this condition.

▲ Wear
The copper level is abnormal. All other component wear rates are normal.

▲ Contamination
There is a moderate amount of visible silt present in the sample. Moderate concentration of visible dirt/debris present in the oil. There is a moderate concentration of water present in the oil.

Fluid Condition
The AN level is acceptable for this fluid.

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number		Client Info		**KCPA012272**	KCP29140	---
Sample Date		Client Info		**07 Jun 2024**	02 Sep 2020	---
Machine Age	hrs	Client Info		**7134**	3487	---
Oil Age	hrs	Client Info		**0**	3487	---
Oil Changed		Client Info		**Changed**	Changed	---
Sample Status				**ABNORMAL**	ABNORMAL	---

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>50	**0**	<1	---
Chromium	ppm	ASTM D5185m	>10	**0**	<1	---
Nickel	ppm	ASTM D5185m	>3	**0**	0	---
Titanium	ppm	ASTM D5185m	>3	**0**	0	---
Silver	ppm	ASTM D5185m	>2	**0**	<1	---
Aluminum	ppm	ASTM D5185m	>10	**0**	0	---
Lead	ppm	ASTM D5185m	>10	**0**	<1	---
Copper	ppm	ASTM D5185m	>50	▲ **119**	8	---
Tin	ppm	ASTM D5185m	>10	**0**	<1	---
Antimony	ppm	ASTM D5185m		**---**	<1	---
Vanadium	ppm	ASTM D5185m		**0**	0	---
Cadmium	ppm	ASTM D5185m		**0**	<1	---

ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	**0**	2	---
Barium	ppm	ASTM D5185m	90	**0**	▲ 1	---
Molybdenum	ppm	ASTM D5185m	0	**0**	<1	---
Manganese	ppm	ASTM D5185m		**0**	<1	---
Magnesium	ppm	ASTM D5185m	100	**4**	▲ 51	---
Calcium	ppm	ASTM D5185m	0	**0**	<1	---
Phosphorus	ppm	ASTM D5185m	0	**<1**	1	---
Zinc	ppm	ASTM D5185m	0	**4**	<1	---
Sulfur	ppm	ASTM D5185m	23500	**17003**	18706	---

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	**6**	3	---
Sodium	ppm	ASTM D5185m		**<1**	9	---
Potassium	ppm	ASTM D5185m	>20	**0**	2	---
Water	%	ASTM D6304	>0.05	▲ **0.559**	▲ 0.830	---
ppm Water	ppm	ASTM D6304	>500	▲ **5590**	▲ 8300	---

FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	1.0	**0.37**	0.372	---

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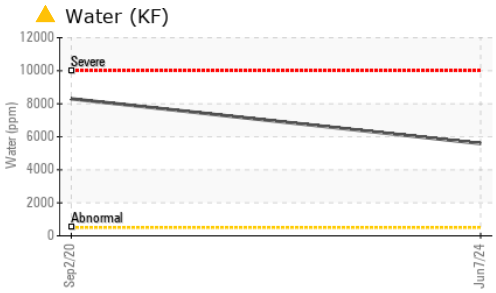
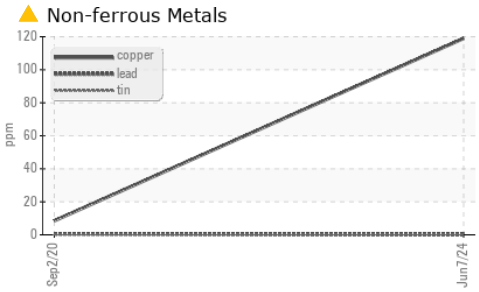
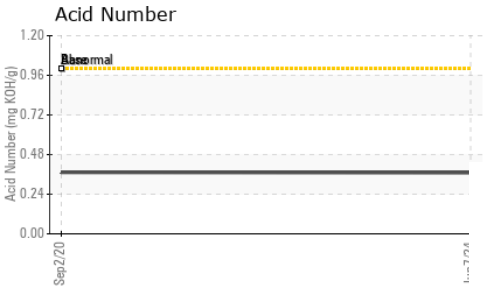
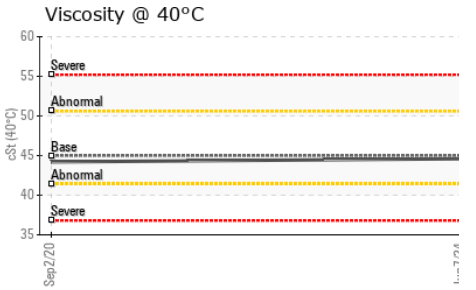






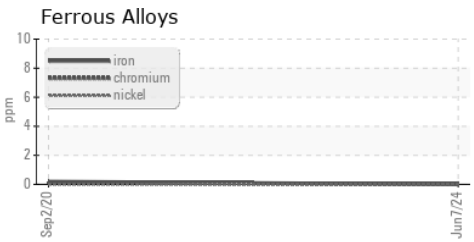


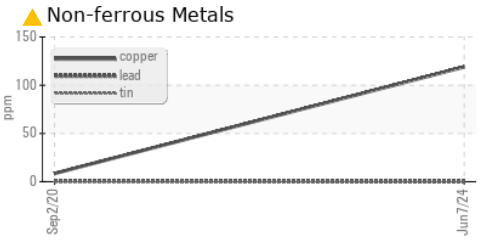
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	**NONE**	NONE	---
Yellow Metal	scalar	*Visual	NONE	**NONE**	NONE	---
Precipitate	scalar	*Visual	NONE	**NONE**	NONE	---
Silt	scalar	*Visual	NONE	▲ **MODER**	NONE	---
Debris	scalar	*Visual	NONE	▲ **MODER**	▲ MODER	---
Sand/Dirt	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%**	0.2%	---
Free Water	scalar	*Visual		**NEG**	▲ 1.0	---

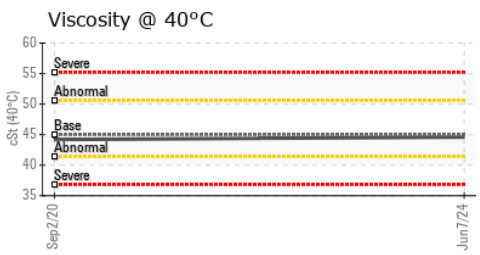
FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	45	**44.6**	44.2	---

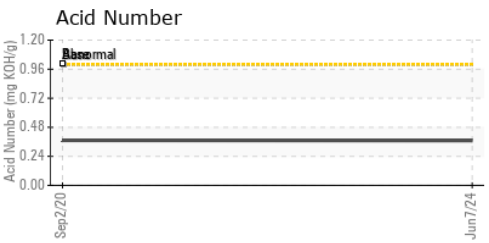
SAMPLE IMAGES	method	limit/base	current	history1	history2
Color					*no image*
Bottom					*no image*

GRAPHS









Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : KCPA012272 **Received** : 11 Jul 2024
Lab Number : 06233847 **Tested** : 13 Jul 2024
Unique Number : 11122681 **Diagnosed** : 13 Jul 2024 - Don Baldridge
Test Package : IND 2 (Additional Tests: KF, PrtCount)

ZIPS DRY CLEANERS
371 W DEKALB PIKE
KING OF PRUSSIA, PA
US 19406
Contact: Service Manager
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)