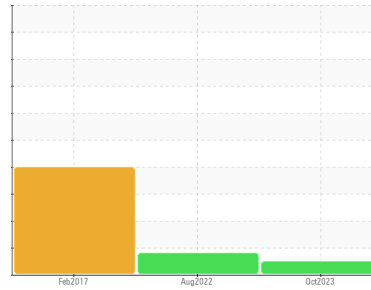


OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Machine Id
KAESER AS 31 1143421 (S/N 3111480)

Component
Compressor

Fluid
KAESER SIGMA (OEM) M-460 (--- GAL)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

The amount and size of particulates present in the system are acceptable. There is no indication of any contamination 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		KCPA007870	KCP50047	KCP62011
Sample Date	Client Info		20 Oct 2023	15 Aug 2022	21 Feb 2017
Machine Age	hrs	Client Info	65285	58989	36647
Oil Age	hrs	Client Info	0	9096	0
Oil Changed	Client Info		N/A	Changed	Changed
Sample Status			NORMAL	ATTENTION	ABNORMAL

WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >50	<1	0	10
Chromium	ppm	ASTM D5185m >10	0	0	<1
Nickel	ppm	ASTM D5185m >3	0	0	0
Titanium	ppm	ASTM D5185m >3	0	0	<1
Silver	ppm	ASTM D5185m >2	0	0	0
Aluminum	ppm	ASTM D5185m >10	2	0	2
Lead	ppm	ASTM D5185m >10	0	0	0
Copper	ppm	ASTM D5185m >50	0	13	2
Tin	ppm	ASTM D5185m >10	0	0	0
Antimony	ppm	ASTM D5185m	---	---	0
Vanadium	ppm	ASTM D5185m	0	0	0
Cadmium	ppm	ASTM D5185m	0	0	0

ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m 0	0	0	<1
Barium	ppm	ASTM D5185m 90	0	0	▲ 9
Molybdenum	ppm	ASTM D5185m 0	0	0	0
Manganese	ppm	ASTM D5185m	0	0	<1
Magnesium	ppm	ASTM D5185m 100	0	0	53
Calcium	ppm	ASTM D5185m 0	0	0	26
Phosphorus	ppm	ASTM D5185m 0	16	5	8
Zinc	ppm	ASTM D5185m 0	0	0	52
Sulfur	ppm	ASTM D5185m 23500	557	17021	8511

CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >25	0	5	▲ 26
Sodium	ppm	ASTM D5185m	<1	<1	17
Potassium	ppm	ASTM D5185m >20	0	0	3
Water	%	ASTM D6304 >0.05	0.006	0.006	▲ 0.133
ppm Water	ppm	ASTM D6304 >500	63.2	64.7	▲ 1330

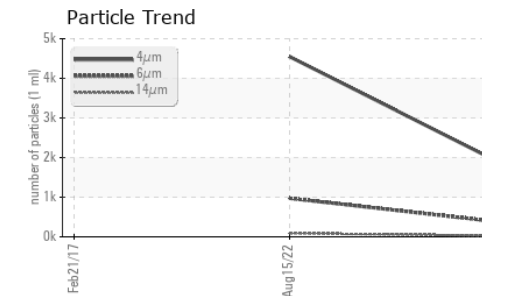
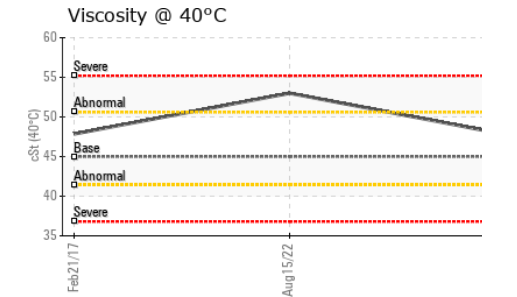
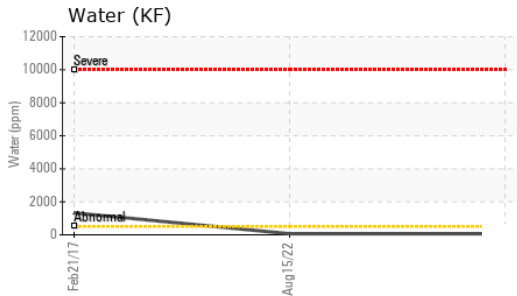
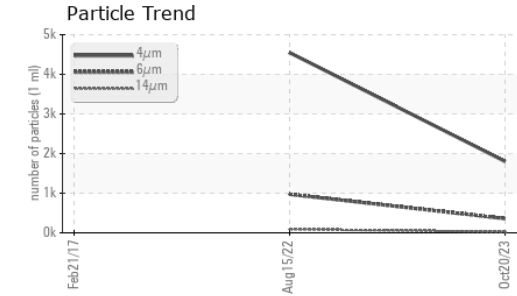
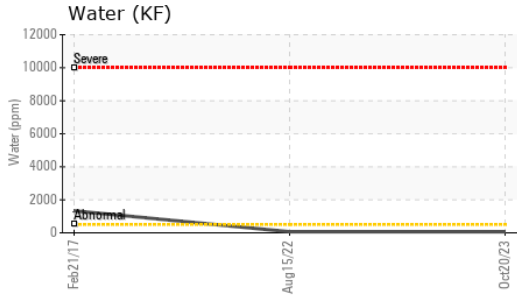
FLUID CLEANLINESS

	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647		1801	4547	---
Particles >6µm	ASTM D7647	>1300	358	973	---
Particles >14µm	ASTM D7647	>80	24	▲ 89	---
Particles >21µm	ASTM D7647	>20	7	13	---
Particles >38µm	ASTM D7647	>4	0	0	---
Particles >71µm	ASTM D7647	>3	0	0	---
Oil Cleanliness	ISO 4406 (c)	>--/17/13	18/16/12	▲ 19/17/14	---

FLUID DEGRADATION

	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045 1.0	0.56	0.52	0.388

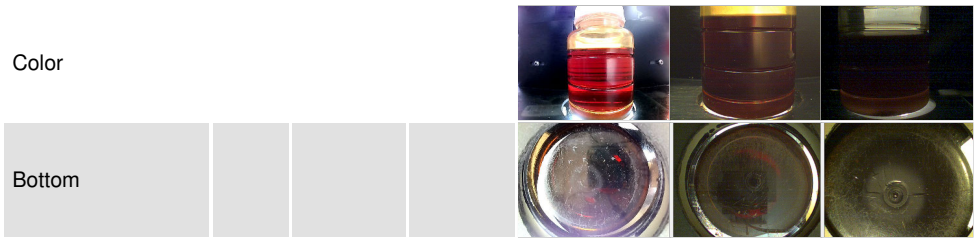
OIL ANALYSIS REPORT



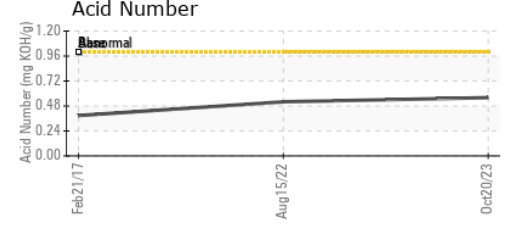
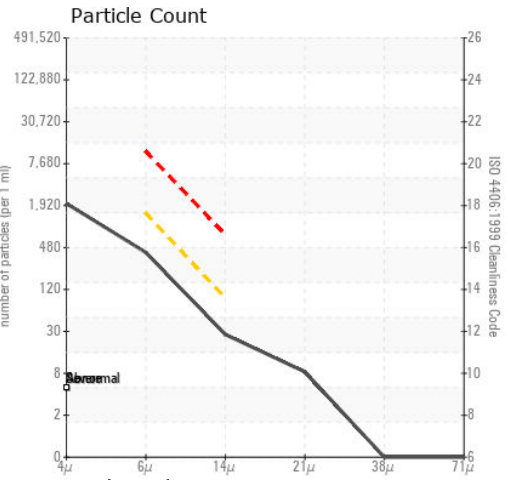
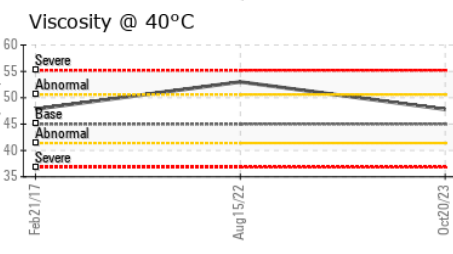
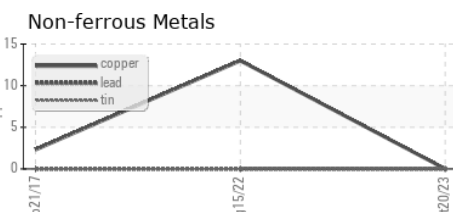
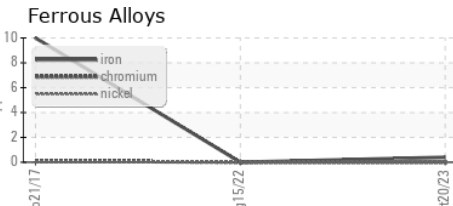
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	▲ HEAVY
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance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

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	45	47.8	53.0

SAMPLE IMAGES	method	limit/base	current	history1	history2
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GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : KCPA007870 **Received** : 06 Nov 2023
Lab Number : 05999871 **Diagnosed** : 08 Nov 2023
Unique Number : 10728231 **Diagnostician** : Don Baldrige
Test Package : IND 2 (Additional Tests: KF, PrtCount)

SEQUATCHIE CONCRETE
 2100 SUTHERLAND AVE
 KNOXVILLE, TN
 US 37923
 Contact: J. BITTLINGER
 jbittlinger@smrynareadymix.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)