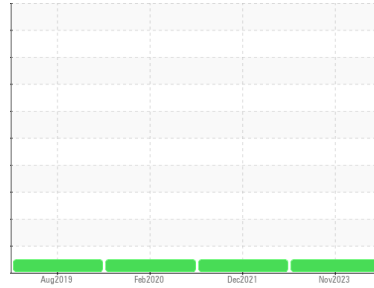




OIL ANALYSIS REPORT

Sample Rating Trend



Machine Id
KAESER SX 7.5 6542674 (S/N 1076)

Component
Compressor

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

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

There is no indication of any contamination in the oil. The amount and size of particulates present in the system are acceptable.

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	KCPA010326	KCP39924	KC89005
Sample Date	Client Info	30 Nov 2023	07 Dec 2021	28 Feb 2020
Machine Age	hrs Client Info	22327	11924	4904
Oil Age	hrs Client Info	0	7020	2186
Oil Changed	Client Info	N/A	Changed	Changed
Sample Status		NORMAL	NORMAL	NORMAL

WEAR METALS

method	limit/base	current	history1	history2
Iron ppm ASTM D5185m	>50	0	0	<1
Chromium ppm ASTM D5185m	>10	0	0	0
Nickel ppm ASTM D5185m	>3	0	0	<1
Titanium ppm ASTM D5185m	>3	0	0	0
Silver ppm ASTM D5185m	>2	0	<1	<1
Aluminum ppm ASTM D5185m	>10	0	0	<1
Lead ppm ASTM D5185m	>10	0	0	3
Copper ppm ASTM D5185m	>50	12	22	4
Tin ppm ASTM D5185m	>10	0	<1	0
Antimony ppm ASTM D5185m		---	0	<1
Vanadium ppm ASTM D5185m		0	0	0
Cadmium ppm ASTM D5185m		0	0	<1

ADDITIVES

method	limit/base	current	history1	history2
Boron ppm ASTM D5185m		0	21	<1
Barium ppm ASTM D5185m	90	0	0	0
Molybdenum ppm ASTM D5185m		0	0	<1
Manganese ppm ASTM D5185m		0	0	<1
Magnesium ppm ASTM D5185m	90	13	<1	37
Calcium ppm ASTM D5185m	2	0	0	1
Phosphorus ppm ASTM D5185m		<1	3	0
Zinc ppm ASTM D5185m		15	9	14
Sulfur ppm ASTM D5185m		17523	16430	16190

CONTAMINANTS

method	limit/base	current	history1	history2
Silicon ppm ASTM D5185m	>25	<1	<1	<1
Sodium ppm ASTM D5185m		7	<1	20
Potassium ppm ASTM D5185m	>20	1	0	5
Water % ASTM D6304	>0.05	0.004	0.003	0.014
ppm Water ppm ASTM D6304	>500	46	33.5	145.8

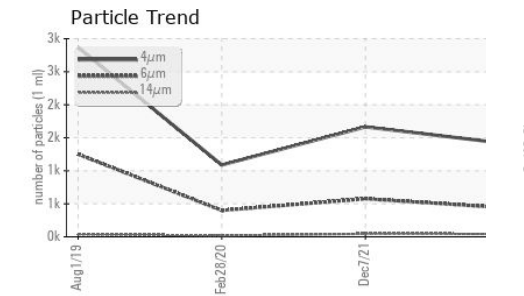
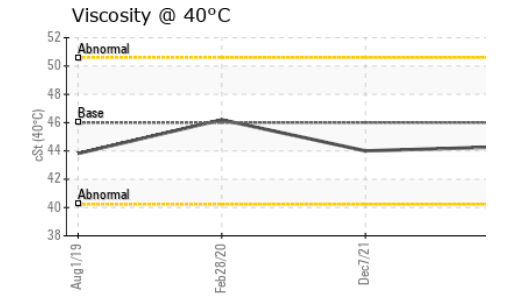
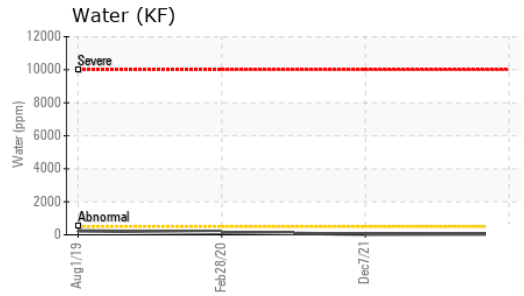
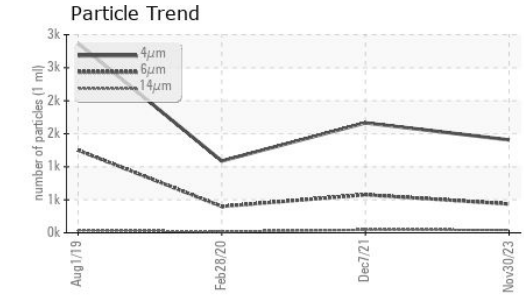
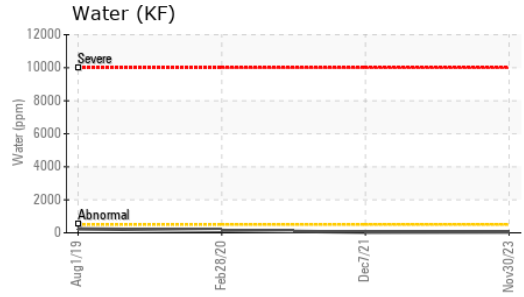
FLUID CLEANLINESS

method	limit/base	current	history1	history2
Particles >4µm ASTM D7647		1407	1665	1088
Particles >6µm ASTM D7647	>1300	436	576	399
Particles >14µm ASTM D7647	>80	43	46	19
Particles >21µm ASTM D7647	>20	15	15	5
Particles >38µm ASTM D7647	>4	1	1	3
Particles >71µm ASTM D7647	>3	0	0	2
Oil Cleanliness ISO 4406 (c)	>--/17/13	18/16/13	16/13	16/11

FLUID DEGRADATION

method	limit/base	current	history1	history2
Acid Number (AN) mg KOH/g ASTM D8045	0.4	0.17	0.229	0.273

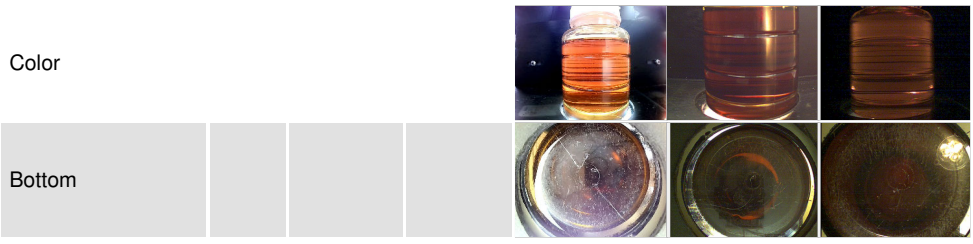
OIL ANALYSIS REPORT



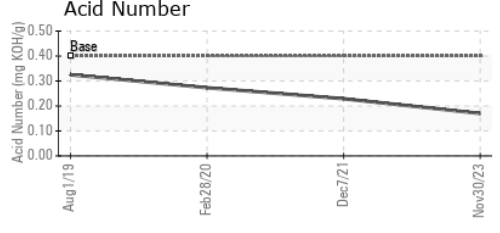
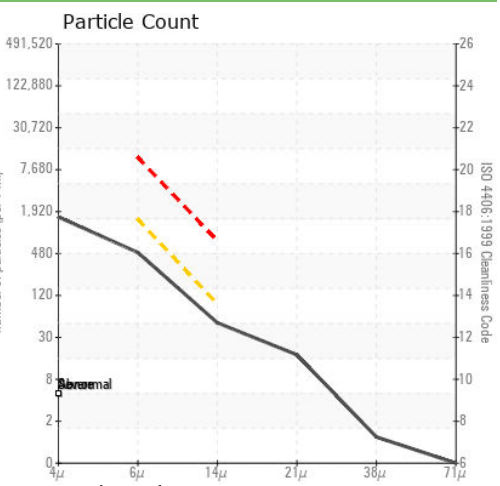
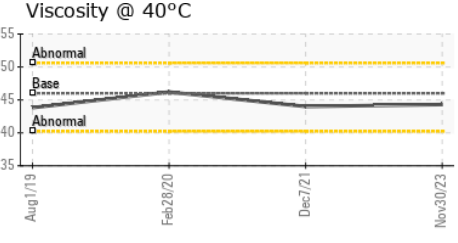
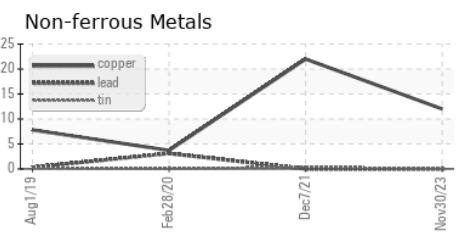
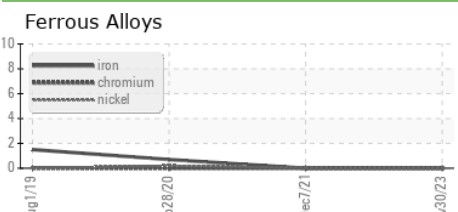
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance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

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445 46	44.3	44.0	46.2

SAMPLE IMAGES	method	limit/base	current	history1	history2
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GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : KCPA010326 **Received** : 07 Dec 2023
Lab Number : 06028695 **Diagnosed** : 10 Dec 2023
Unique Number : 10778486 **Diagnostician** : Doug Bogart
Test Package : IND 2 (Additional Tests: KF, PrtCount)

AIKEN COUNTY WW
 70 PSA RD
 AIKEN, SC
 US 29842
 Contact: P. FOURNIER
 pfournier@aikencountysc.gov
 T:
 F:

Certificate L2367
 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)