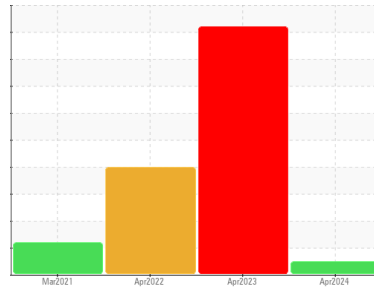




OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Machine Id
KAESER SM 15T 6987677 (S/N 1055)
 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			KC128795	KC102036	KC91321
Sample Date	Client Info			17 Apr 2024	18 Apr 2023	06 Apr 2022
Machine Age	hrs	Client Info		8284	6902	5056
Oil Age	hrs	Client Info		1382	3600	2200
Oil Changed	Client Info			Not Changed	Changed	Not Changed
Sample Status				NORMAL	SEVERE	ABNORMAL

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>50	0	▲ 433	<1
Chromium	ppm	ASTM D5185m	>10	0	4	0
Nickel	ppm	ASTM D5185m	>3	0	<1	<1
Titanium	ppm	ASTM D5185m	>3	0	<1	0
Silver	ppm	ASTM D5185m	>2	0	0	<1
Aluminum	ppm	ASTM D5185m	>10	0	0	<1
Lead	ppm	ASTM D5185m	>10	0	<1	<1
Copper	ppm	ASTM D5185m	>50	9	<1	13
Tin	ppm	ASTM D5185m	>10	0	<1	<1
Antimony	ppm	ASTM D5185m		---	0	---
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		0	0	0

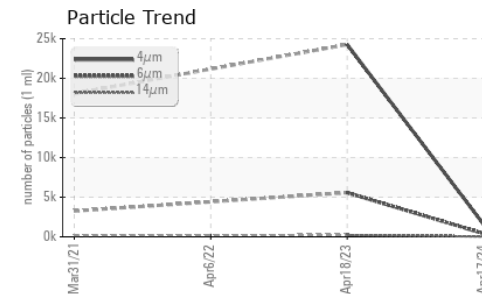
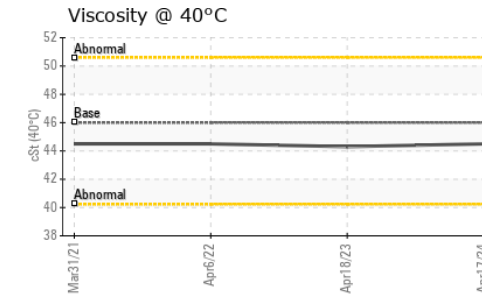
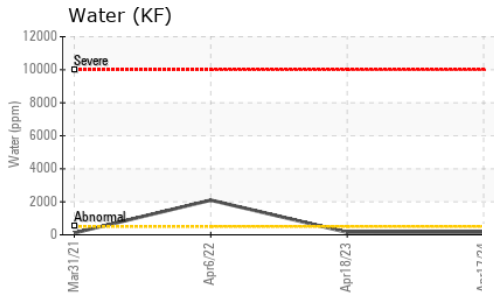
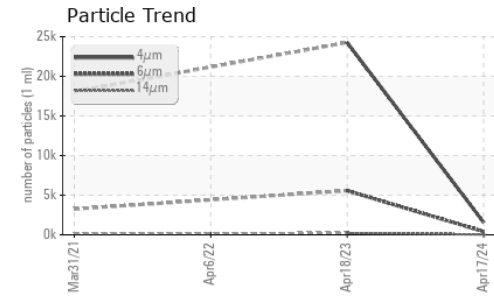
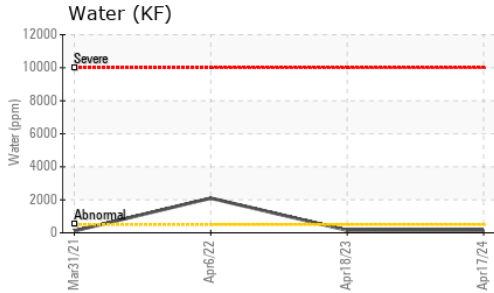
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		0	2	0
Barium	ppm	ASTM D5185m	90	<1	4	0
Molybdenum	ppm	ASTM D5185m		0	1	0
Manganese	ppm	ASTM D5185m		<1	4	<1
Magnesium	ppm	ASTM D5185m	90	55	2	34
Calcium	ppm	ASTM D5185m	2	0	12	0
Phosphorus	ppm	ASTM D5185m		0	362	3
Zinc	ppm	ASTM D5185m		15	8	30

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	0	▲ 28	2
Sodium	ppm	ASTM D5185m		17	2	8
Potassium	ppm	ASTM D5185m	>20	4	2	<1
Water	%	ASTM D6304	>0.05	0.014	0.015	▲ 0.210
ppm Water	ppm	ASTM D6304	>500	144	151.4	▲ 2100

FLUID CLEANLINESS		method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647		1564	24266	---
Particles >6µm		ASTM D7647	>1300	411	▲ 5569	---
Particles >14µm		ASTM D7647	>80	34	▲ 227	---
Particles >21µm		ASTM D7647	>20	9	▲ 40	---
Particles >38µm		ASTM D7647	>4	0	1	---
Particles >71µm		ASTM D7647	>3	0	0	---
Oil Cleanliness		ISO 4406 (c)	>--/17/13	18/16/12	▲ 22/20/15	---

FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	0.4	0.38	0.31	0.29

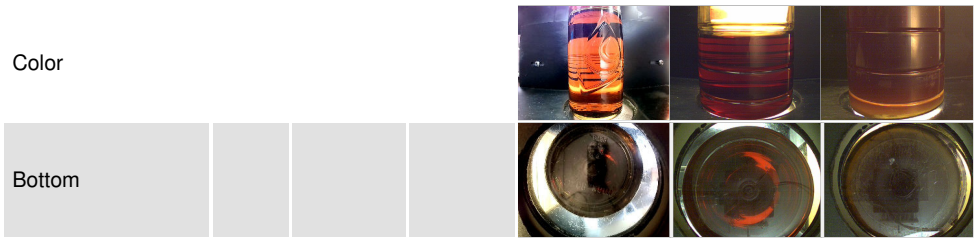
OIL ANALYSIS REPORT



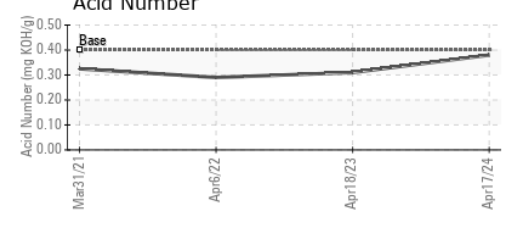
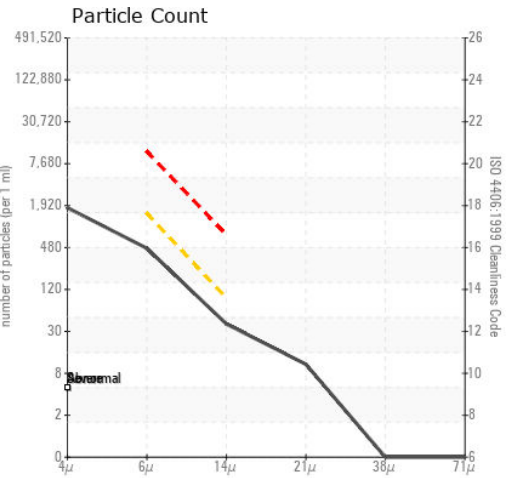
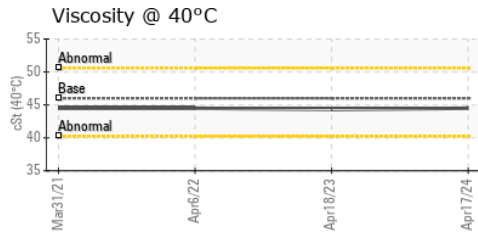
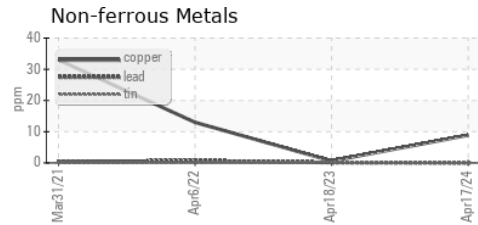
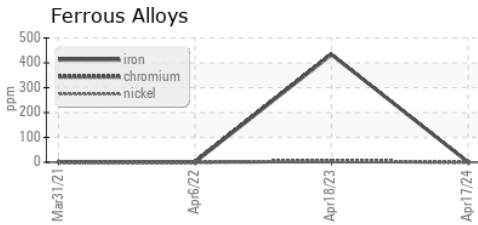
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	▲ MODER
Debris	scalar	*Visual	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.05	NEG	0.2%
Free Water	scalar	*Visual		NEG	▲ 1.0

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445 46	44.5	44.3	44.5

SAMPLE IMAGES	method	limit/base	current	history1	history2
---------------	--------	------------	---------	----------	----------



GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : KC128795
Lab Number : 06161446
Unique Number : 10996869
Test Package : IND 2
Received : 26 Apr 2024
Tested : 29 Apr 2024
Diagnosed : 30 Apr 2024 - Don Baldrige

SWR INC
 619 INDUSTRIAL PARK RD
 EBENSBURG, PA
 US 15931
 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)