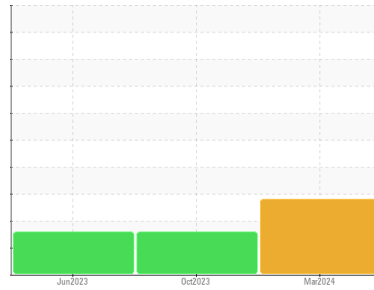




OIL ANALYSIS REPORT

Sample Rating Trend



WATER



Machine Id
7921402 (S/N 1348)
 Component
Compressor
 Fluid
KAESER SIGMA (OEM) M-460 (--- GAL)

DIAGNOSIS

▲ Recommendation

Oil and filter change at the time of sampling has been noted. We recommend an early resample in 500 hours to monitor this condition.

Wear

All component wear rates are normal.

▲ Contamination

There is a moderate amount of particulates present in the oil. There is a light concentration of water present 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			KCPA014952	KCPA007795	KCPA002227
Sample Date	Client Info			27 Mar 2024	16 Oct 2023	06 Jun 2023
Machine Age	hrs	Client Info		10203	8402	7279
Oil Age	hrs	Client Info		0	0	0
Oil Changed	Client Info			Changed	N/A	N/A
Sample Status				ABNORMAL	ABNORMAL	ABNORMAL

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>50	3	2	0
Chromium	ppm	ASTM D5185m	>10	<1	0	0
Nickel	ppm	ASTM D5185m	>3	<1	2	0
Titanium	ppm	ASTM D5185m	>3	<1	0	<1
Silver	ppm	ASTM D5185m	>2	0	<1	0
Aluminum	ppm	ASTM D5185m	>10	2	2	<1
Lead	ppm	ASTM D5185m	>10	1	0	0
Copper	ppm	ASTM D5185m	>50	7	4	7
Tin	ppm	ASTM D5185m	>10	1	<1	0
Vanadium	ppm	ASTM D5185m		<1	<1	0
Cadmium	ppm	ASTM D5185m		<1	0	0

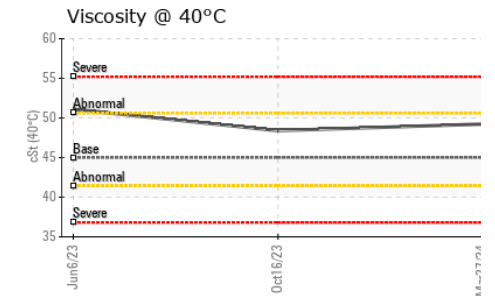
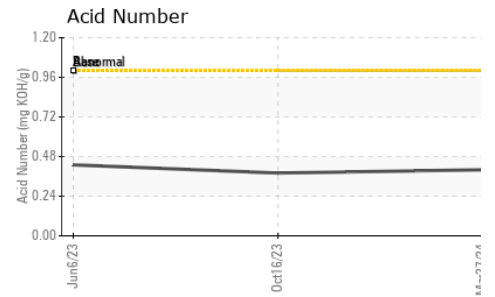
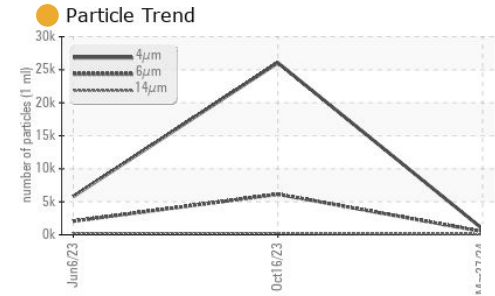
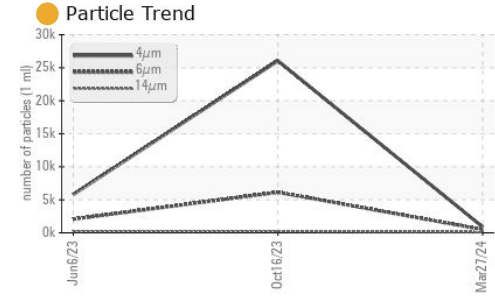
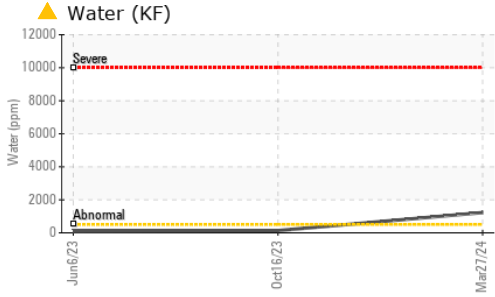
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	0	0	0
Barium	ppm	ASTM D5185m	90	8	2	0
Molybdenum	ppm	ASTM D5185m	0	<1	0	0
Manganese	ppm	ASTM D5185m		<1	<1	0
Magnesium	ppm	ASTM D5185m	100	28	33	0
Calcium	ppm	ASTM D5185m	0	4	1	0
Phosphorus	ppm	ASTM D5185m	0	5	<1	0
Zinc	ppm	ASTM D5185m	0	1	3	0
Sulfur	ppm	ASTM D5185m	23500	21672	20531	17441

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	4	<1	<1
Sodium	ppm	ASTM D5185m		11	6	0
Potassium	ppm	ASTM D5185m	>20	3	6	0
Water	%	ASTM D6304	>0.05	▲ 0.123	0.013	0.009
ppm Water	ppm	ASTM D6304	>500	▲ 1226	134.8	91.4

FLUID CLEANLINESS		method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647		896	26042	5810
Particles >6µm		ASTM D7647	>1300	488	▲ 6141	▲ 2063
Particles >14µm		ASTM D7647	>80	● 83	▲ 211	▲ 199
Particles >21µm		ASTM D7647	>20	● 28	▲ 59	▲ 51
Particles >38µm		ASTM D7647	>4	4	2	1
Particles >71µm		ASTM D7647	>3	0	0	0
Oil Cleanliness		ISO 4406 (c)	>--/17/13	● 17/16/14	▲ 22/20/15	▲ 20/18/15

FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	1.0	0.40	0.38	0.43

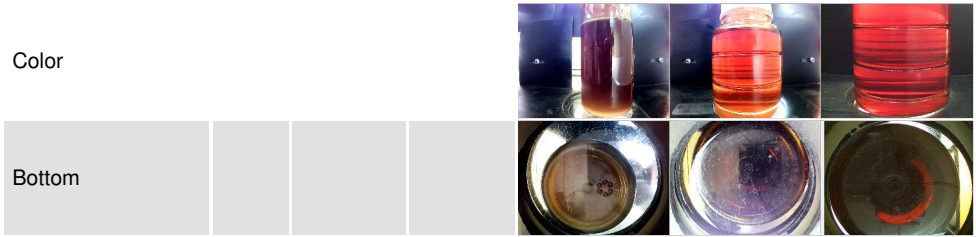
OIL ANALYSIS REPORT



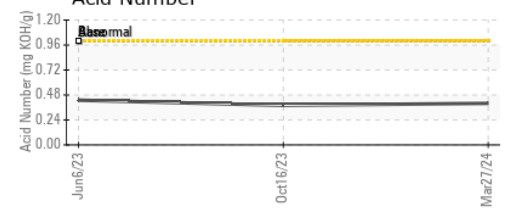
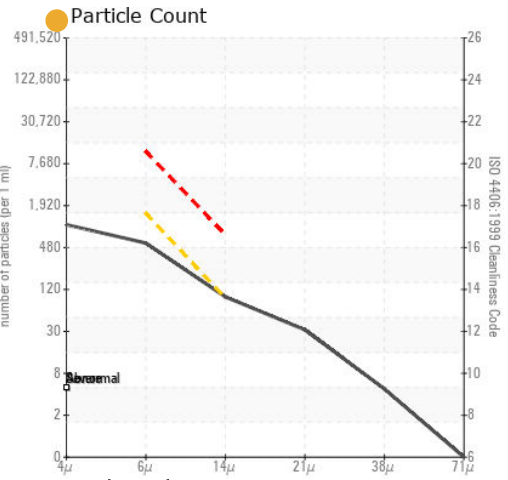
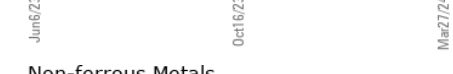
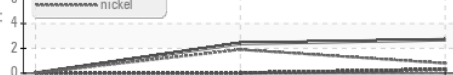
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	LIGHT
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance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

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	45	49.23	48.4

SAMPLE IMAGES	method	limit/base	current	history1	history2
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GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : KCPA014952 **Received** : 01 Apr 2024
Lab Number : 06135654 **Tested** : 08 Apr 2024
Unique Number : 10955119 **Diagnosed** : 08 Apr 2024 - Jonathan Hester
Test Package : IND 2 (Additional Tests: KF, PrtCount)

STG MACHINE
 481 GIANNI ST
 SANTA CLARA, CA
 US 95054
 Contact: TYLER
 tyler@stgmachine.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)