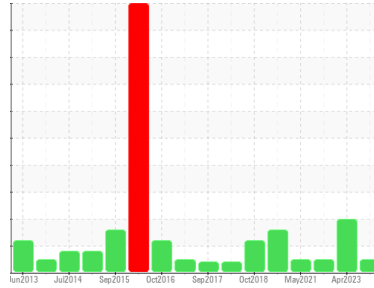




OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Machine Id
KAESER ASD 25T 4385393 (S/N 1045)

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

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			KCPA015709	KCP53099	KCP43035
Sample Date	Client Info			15 Mar 2024	25 Apr 2023	27 Dec 2021
Machine Age	hrs	Client Info		50676	46545	39785
Oil Age	hrs	Client Info		4000	2000	3000
Oil Changed	Client Info			Changed	Not Changd	Changed
Sample Status				NORMAL	ABNORMAL	NORMAL

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

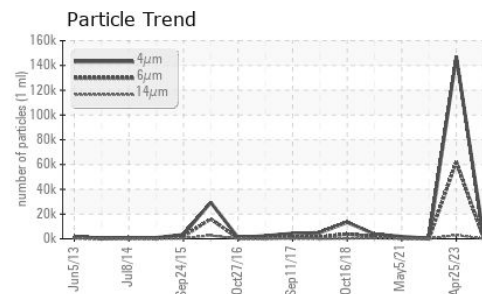
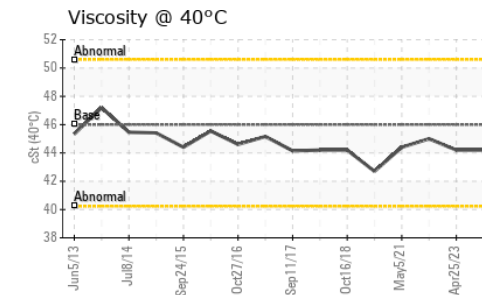
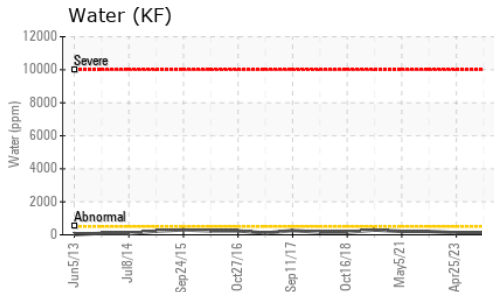
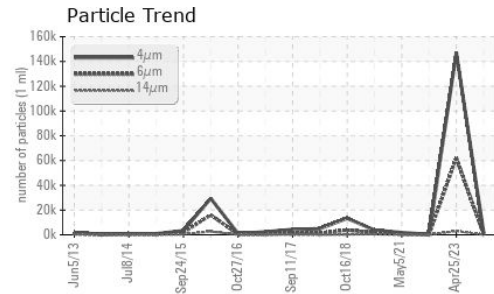
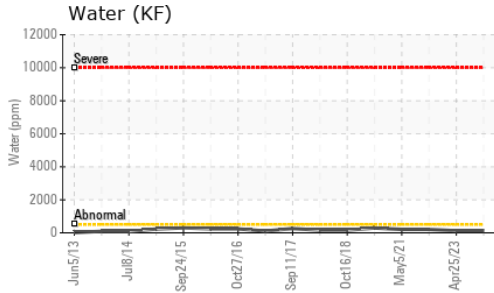
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		0	0	12
Barium	ppm	ASTM D5185m	90	24	47	11
Molybdenum	ppm	ASTM D5185m		0	0	0
Manganese	ppm	ASTM D5185m		<1	<1	0
Magnesium	ppm	ASTM D5185m	90	50	73	69
Calcium	ppm	ASTM D5185m	2	<1	2	<1
Phosphorus	ppm	ASTM D5185m		0	6	1
Zinc	ppm	ASTM D5185m		<1	7	4
Sulfur	ppm	ASTM D5185m		20522	22126	18109

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	4	1	5
Sodium	ppm	ASTM D5185m		37	35	31
Potassium	ppm	ASTM D5185m	>20	4	6	4
Water	%	ASTM D6304	>0.05	0.012	0.012	0.020
ppm Water	ppm	ASTM D6304	>500	121	123.1	208.0

FLUID CLEANLINESS		method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647		1896	146979	326
Particles >6µm		ASTM D7647	>1300	485	▲ 62090	78
Particles >14µm		ASTM D7647	>80	35	▲ 3068	6
Particles >21µm		ASTM D7647	>20	8	▲ 451	2
Particles >38µm		ASTM D7647	>4	1	▲ 34	0
Particles >71µm		ASTM D7647	>3	0	3	0
Oil Cleanliness		ISO 4406 (c)	>--/17/13	18/16/12	▲ 24/23/19	13/10

FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	0.4	0.35	0.29	0.322

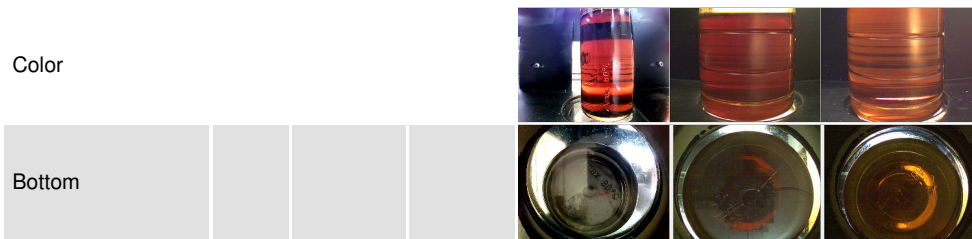
OIL ANALYSIS REPORT



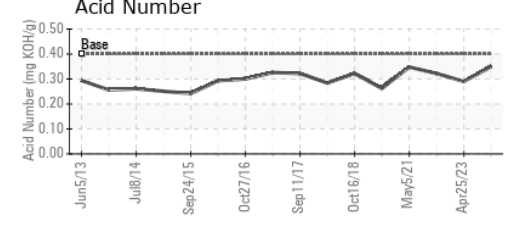
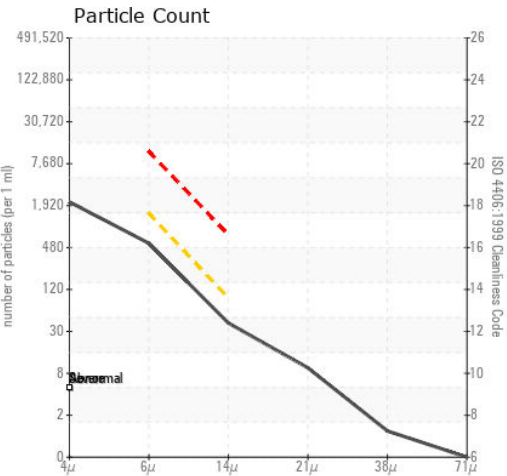
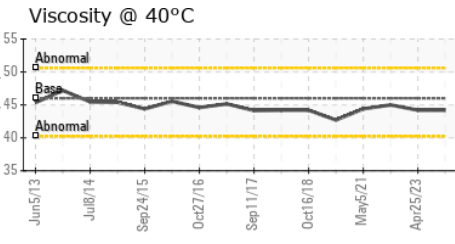
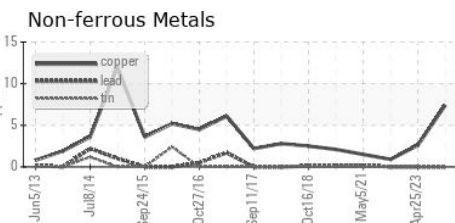
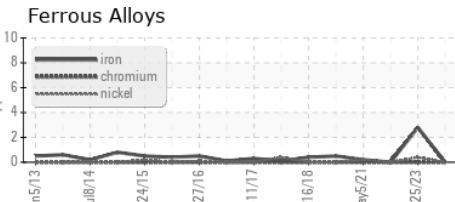
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	LIGHT	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance	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	44.2	44.2	45.0

SAMPLE IMAGES	method	limit/base	current	history1	history2
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GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : KCPA015709
Lab Number : 06125713
Unique Number : 10939864
Test Package : IND 2 (Additional Tests: KF, PrtCount)
Received : 21 Mar 2024
Tested : 22 Mar 2024
Diagnosed : 25 Mar 2024 - Don Baldrige

FRED KNAPP ENGRAVING CO INC
 5102 DOUGLAS AVE
 RACINE, WI
 US 53402
 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)

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