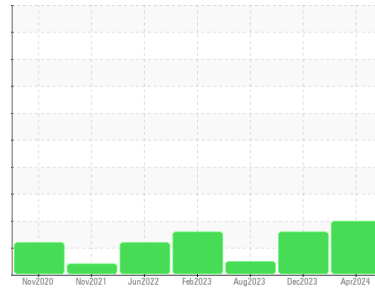




OIL ANALYSIS REPORT

Sample Rating Trend



ISO



Machine Id
KAESER 7245793 (S/N 1453)
 Component
Compressor
 Fluid
KAESER SIGMA (OEM) S-460 (--- GAL)

DIAGNOSIS

Recommendation

No corrective action is recommended at this time. The filter change at the time of sampling has been noted. Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

There is a high amount of particulates 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	KC06177740	KC124431	KC125337
Sample Date	Client Info	05 Apr 2024	19 Dec 2023	11 Aug 2023
Machine Age	hrs	25062	22537	19459
Oil Age	hrs	0	0	0
Oil Changed	Client Info	N/A	N/A	N/A
Sample Status		ABNORMAL	ATTENTION	NORMAL

WEAR METALS

method	limit/base	current	history1	history2
Iron ppm	ASTM D5185m >50	0	<1	0
Chromium ppm	ASTM D5185m >10	<1	<1	0
Nickel ppm	ASTM D5185m >3	0	0	0
Titanium ppm	ASTM D5185m >3	<1	<1	0
Silver ppm	ASTM D5185m >2	0	0	0
Aluminum ppm	ASTM D5185m >10	2	2	0
Lead ppm	ASTM D5185m >10	<1	0	0
Copper ppm	ASTM D5185m >50	11	11	7
Tin ppm	ASTM D5185m >10	<1	0	0
Vanadium ppm	ASTM D5185m	<1	0	<1
Cadmium ppm	ASTM D5185m	<1	0	0

ADDITIVES

method	limit/base	current	history1	history2
Boron ppm	ASTM D5185m	0	0	0
Barium ppm	ASTM D5185m 90	2	0	0
Molybdenum ppm	ASTM D5185m	<1	0	0
Manganese ppm	ASTM D5185m	0	0	0
Magnesium ppm	ASTM D5185m 90	2	26	13
Calcium ppm	ASTM D5185m 2	3	<1	0
Phosphorus ppm	ASTM D5185m	6	15	<1
Zinc ppm	ASTM D5185m	3	0	10

CONTAMINANTS

method	limit/base	current	history1	history2
Silicon ppm	ASTM D5185m >25	<1	<1	<1
Sodium ppm	ASTM D5185m	0	11	6
Potassium ppm	ASTM D5185m >20	2	2	2
Water %	ASTM D6304 >0.05	0.005	0.008	0.010
ppm Water	ASTM D6304 >500	58	85	102.5

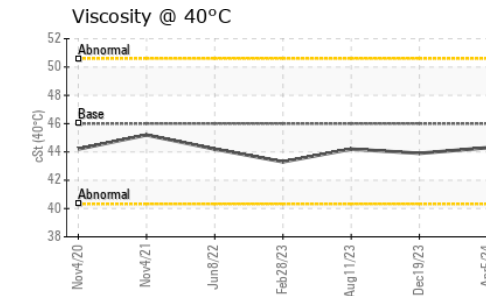
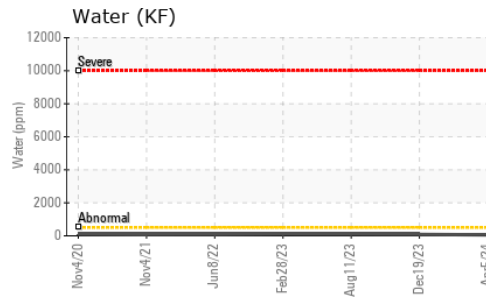
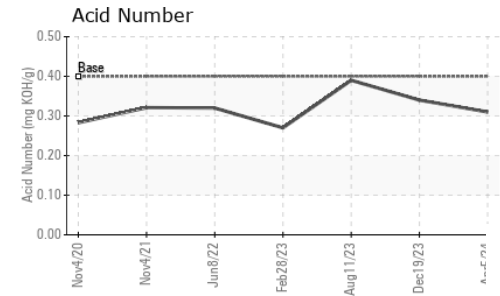
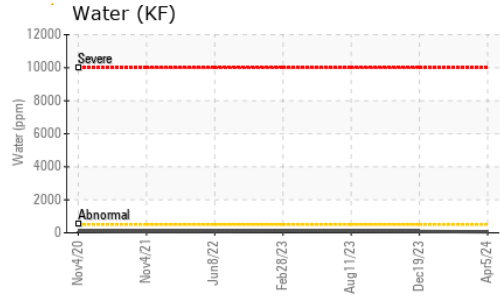
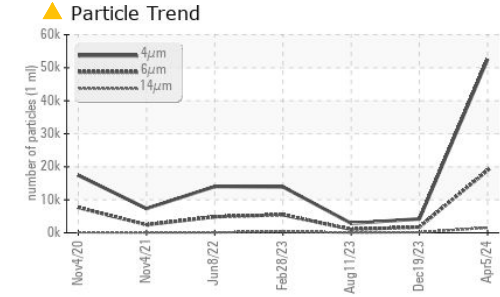
FLUID CLEANLINESS

method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	52579	4204	2857
Particles >6µm	ASTM D7647 >1300	▲ 18919	● 1711	1037
Particles >14µm	ASTM D7647 >80	▲ 1545	● 152	52
Particles >21µm	ASTM D7647 >20	▲ 391	● 44	14
Particles >38µm	ASTM D7647 >4	● 9	2	0
Particles >71µm	ASTM D7647 >3	0	0	0
Oil Cleanliness	ISO 4406 (c) >--/17/13	▲ 23/21/18	● 19/18/14	19/17/13

FLUID DEGRADATION

method	limit/base	current	history1	history2
Acid Number (AN) mg KOH/g	ASTM D8045 0.4	0.31	0.34	0.39

OIL ANALYSIS REPORT

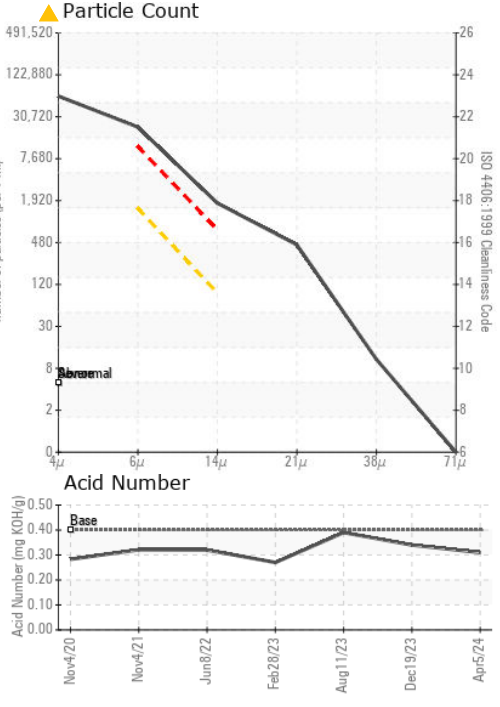
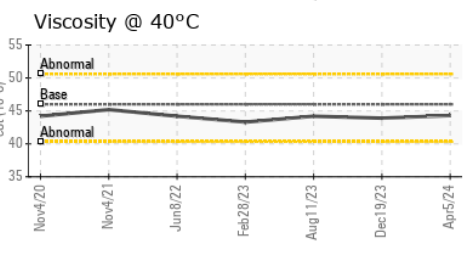
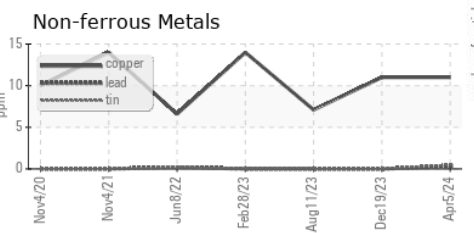
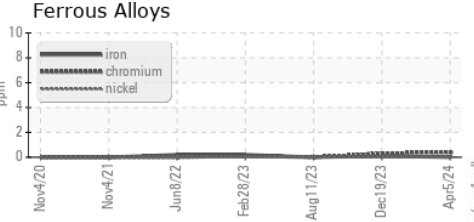


VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	LIGHT	LIGHT
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.05	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	43.9

SAMPLE IMAGES	method	limit/base	current	history1	history2
Color					
Bottom					

GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : KC06177740
Lab Number : 06177740
Unique Number : 11023793
Test Package : IND 2
Received : 13 May 2024
Tested : 15 May 2024
Diagnosed : 15 May 2024 - Angela Borella

TRI-STATE TOOL GRINDING
 5311 A ROBERT AVE
 CINCINNATI, OH
 US 45048
 Contact: Service Manager

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)