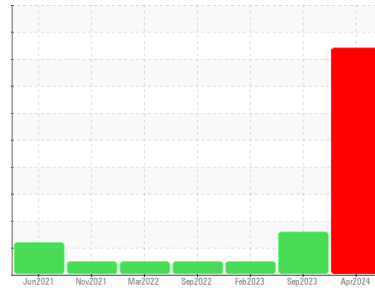




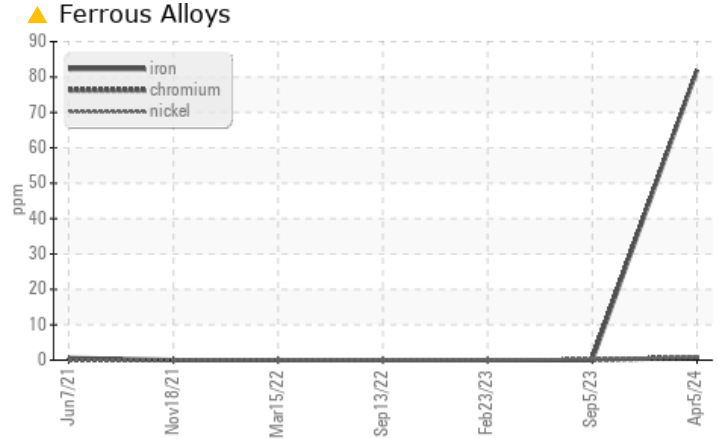
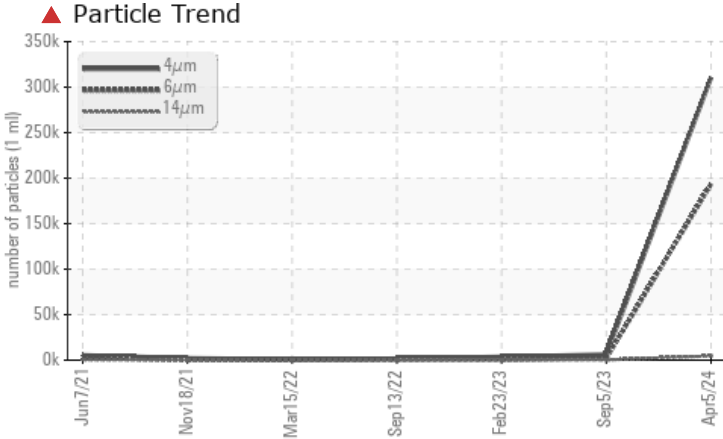
PROBLEM SUMMARY

Machine Id
KAESER 7349808
 Component
Compressor
 Fluid
KAESER SIGMA (OEM) M-460 (--- GAL)

Sample Rating Trend



COMPONENT CONDITION SUMMARY



RECOMMENDATION

Oil and filter change at the time of sampling has been noted. We advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition.

PROBLEMATIC TEST RESULTS

Sample Status			SEVERE	ABNORMAL	NORMAL
Iron	ppm	ASTM D5185m >50	▲ 82	0	0
Particles >4µm		ASTM D7647	▲ 310405	6226	3662
Particles >6µm		ASTM D7647 >1300	▲ 193724	▲ 2181	745
Particles >14µm		ASTM D7647 >80	▲ 4611	▲ 220	40
Particles >21µm		ASTM D7647 >20	▲ 171	▲ 57	8
Oil Cleanliness		ISO 4406 (c) >--/17/13	▲ 25/25/19	▲ 20/18/15	19/17/12

Customer Id: AMAOAK
 Sample No.: KCPA016954
 Lab Number: 06146605
 Test Package: IND 2



To manage this report scan the QR code

To discuss the diagnosis or test data:
 Angela Borella +1 800-237-1369
angela.borella@wearcheckusa.com

To change component or sample information:
 Customer Service +1 1-800-237-1369
customerservice@wearcheck.com

RECOMMENDED ACTIONS

Action	Status	Date	Done By	Description
Inspect Wear Source	---	---	?	We advise that you inspect for the source(s) of wear.
Change Fluid	---	---	?	Oil and filter change at the time of sampling has been noted.
Change Filter	---	---	?	Oil and filter change at the time of sampling has been noted.
Resample	---	---	?	We recommend an early resample to monitor this condition.

HISTORICAL DIAGNOSIS



05 Sep 2023 Diag: Don Baldrige

Oil and filter change at the time of sampling has been noted. No corrective action is recommended at this time. Resample at the next service interval to monitor. All component wear rates are normal. There is a high amount of particulates present in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

view report



23 Feb 2023 Diag: Angela Borella

Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the oil. The amount and size of particulates present in the system are acceptable. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

view report



13 Sep 2022 Diag: Don Baldrige

Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the oil. The amount and size of particulates present in the system are acceptable. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

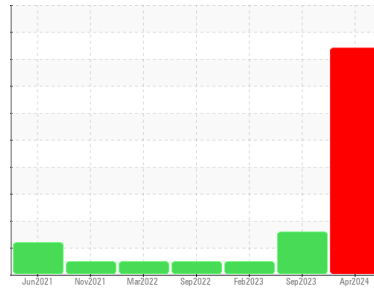
view report





OIL ANALYSIS REPORT

Sample Rating Trend



Machine Id
KAESER 7349808
 Component
Compressor
 Fluid
KAESER SIGMA (OEM) M-460 (--- GAL)

DIAGNOSIS

▲ Recommendation
 Oil and filter change at the time of sampling has been noted. We advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition.

▲ Wear
 The iron level is abnormal.

▲ Contamination
 There is a high amount of particulates present in the oil.

Fluid Condition
 The AN level is acceptable for this fluid. The oil is no longer serviceable due to the presence of contaminants.

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number	Client Info			KCPA016954	KCP48197D	KCP55934
Sample Date	Client Info			05 Apr 2024	05 Sep 2023	23 Feb 2023
Machine Age	hrs	Client Info		20814	16111	13235
Oil Age	hrs	Client Info		8000	4000	3000
Oil Changed	Client Info			Changed	Changed	Changed
Sample Status				SEVERE	ABNORMAL	NORMAL

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>50	▲ 82	0	0
Chromium	ppm	ASTM D5185m	>10	<1	0	0
Nickel	ppm	ASTM D5185m	>3	<1	<1	0
Titanium	ppm	ASTM D5185m	>3	<1	0	0
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>10	1	0	<1
Lead	ppm	ASTM D5185m	>10	1	0	0
Copper	ppm	ASTM D5185m	>50	2	1	<1
Tin	ppm	ASTM D5185m	>10	1	<1	0
Vanadium	ppm	ASTM D5185m		<1	0	0
Cadmium	ppm	ASTM D5185m		<1	0	0

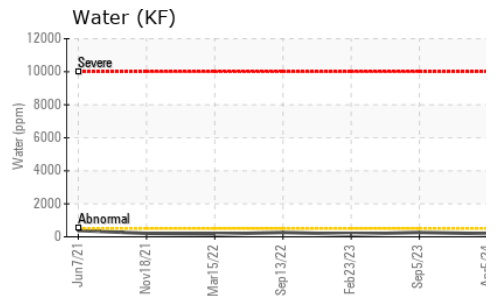
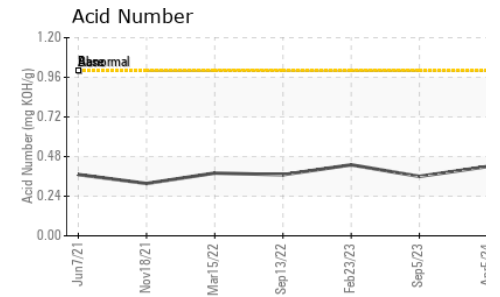
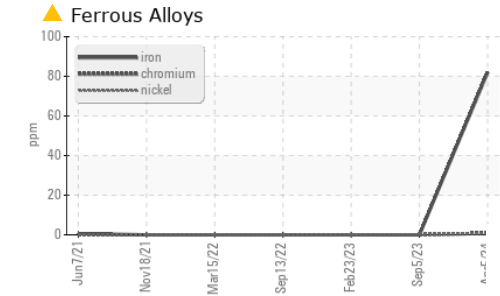
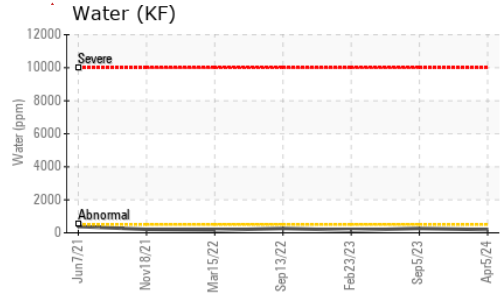
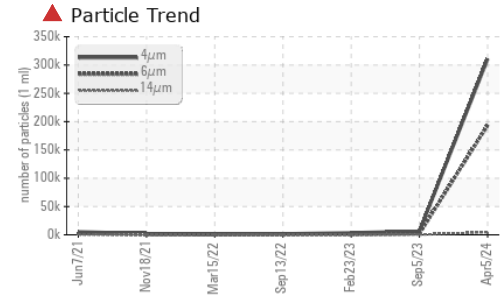
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	0	0	0
Barium	ppm	ASTM D5185m	90	26	33	49
Molybdenum	ppm	ASTM D5185m	0	1	0	0
Manganese	ppm	ASTM D5185m		2	<1	1
Magnesium	ppm	ASTM D5185m	100	68	66	96
Calcium	ppm	ASTM D5185m	0	5	1	2
Phosphorus	ppm	ASTM D5185m	0	4	7	0
Zinc	ppm	ASTM D5185m	0	6	6	27
Sulfur	ppm	ASTM D5185m	23500	20521	24702	21870

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	2	2	1
Sodium	ppm	ASTM D5185m		15	16	16
Potassium	ppm	ASTM D5185m	>20	7	4	6
Water	%	ASTM D6304	>0.05	0.018	0.026	0.015
ppm Water	ppm	ASTM D6304	>500	190	263.4	156.9

FLUID CLEANLINESS		method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647		▲ 310405	6226	3662
Particles >6µm		ASTM D7647	>1300	▲ 193724	▲ 2181	745
Particles >14µm		ASTM D7647	>80	▲ 4611	▲ 220	40
Particles >21µm		ASTM D7647	>20	▲ 171	▲ 57	8
Particles >38µm		ASTM D7647	>4	1	1	0
Particles >71µm		ASTM D7647	>3	0	0	0
Oil Cleanliness		ISO 4406 (c)	>--/17/13	▲ 25/25/19	▲ 20/18/15	19/17/12

FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	1.0	0.42	0.36	0.43

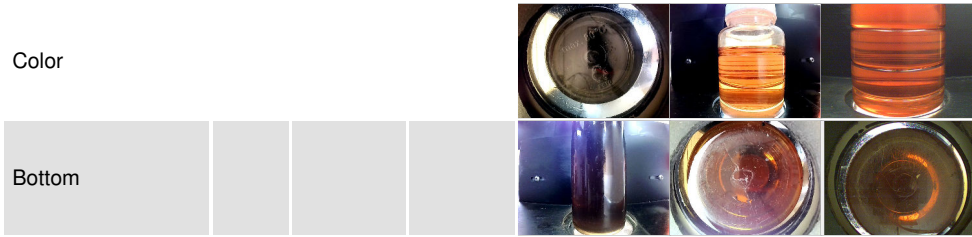
OIL ANALYSIS REPORT



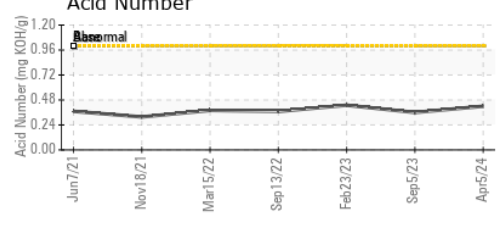
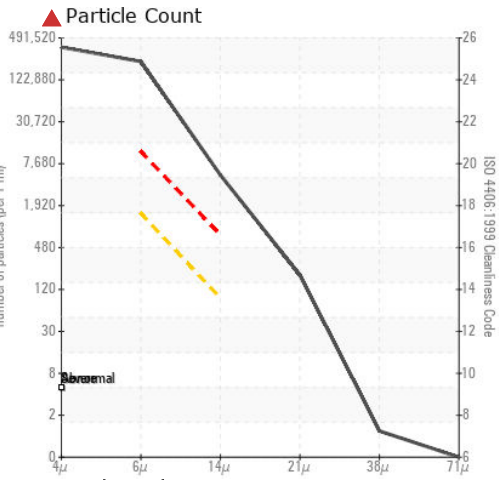
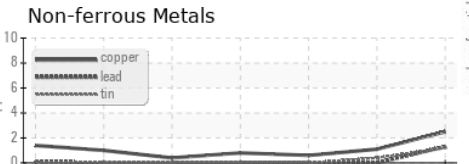
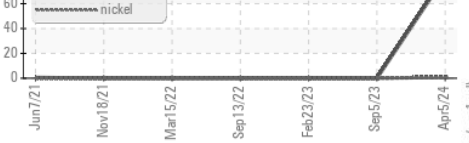
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance	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	45	49.9	49.2

SAMPLE IMAGES	method	limit/base	current	history1	history2
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GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : KCPA016954 **Received** : 11 Apr 2024
Lab Number : 06146605 **Tested** : 12 Apr 2024
Unique Number : 10976683 **Diagnosed** : 16 Apr 2024 - Angela Borella
Test Package : IND 2 (Additional Tests: KF, PrtCount)

AMAZON
 9700 S 13TH ST
 OAK CREEK, WI
 US 53154
 Contact: Service Manager
 ssswosin@amazon.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)