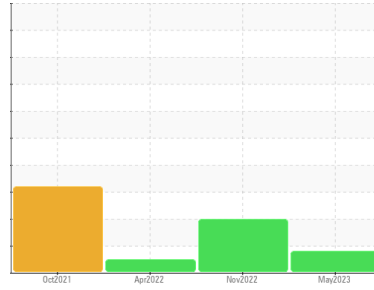


PROBLEM SUMMARY

Sample Rating Trend



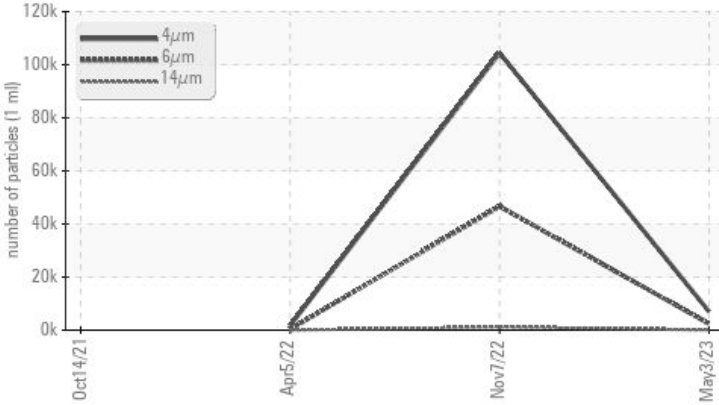
ISO



Machine Id
KAESER 7446646 (S/N 1139)
Component
Compressor
Fluid
KAESER SIGMA (OEM) S-460 (--- GAL)

COMPONENT CONDITION SUMMARY

▲ Particle Trend



RECOMMENDATION

No corrective action is recommended at this time.
Resample at the next service interval to monitor.

PROBLEMATIC TEST RESULTS

Sample Status		ATTENTION	ABNORMAL	NORMAL
Particles >6µm	ASTM D7647 >1300	▲ 2434	▲ 46645	337
Oil Cleanliness	ISO 4406 (c) >--/17/13	▲ 20/18/13	▲ 24/23/17	16/12

Customer Id: PREWINFL
Sample No.: KC102756
Lab Number: 05849740
Test Package: IND 2



To manage this report scan the QR code

To discuss the diagnosis or test data:
Don Baldrige +1
don.b505@comcast.net

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

RECOMMENDED ACTIONS

There are no recommended actions for this sample.

HISTORICAL DIAGNOSIS

07 Nov 2022 Diag: Don Baldrige

ISO



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



05 Apr 2022 Diag: Don Baldrige

NORMAL



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

view report



14 Oct 2021 Diag: Jonathan Hester

WATER



Oil and filter change at the time of sampling has been noted. We recommend an early resample in 500 hours to monitor this condition. We were unable to perform a particle count due to a high concentration of particles present in this sample. All component wear rates are normal. Appearance is hazy. There is a light concentration of water present in the oil. There is a moderate amount of visible silt present in the sample. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

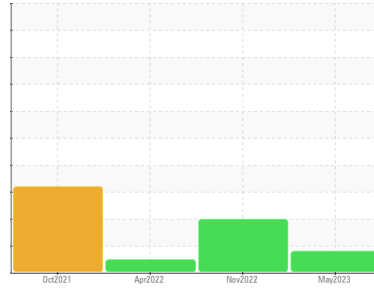
view report





OIL ANALYSIS REPORT

Sample Rating Trend



Machine Id
KAESER 7446646 (S/N 1139)
 Component
Compressor
 Fluid
KAESER SIGMA (OEM) S-460 (--- GAL)

DIAGNOSIS

Recommendation
 No corrective action is recommended at this time. Resample at the next service interval to monitor.

Wear
 All component wear rates are normal.

Contamination
 There is a moderate amount of silt (particulates < 14 microns in size) 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	KC102756	KC90675	KC94610
Sample Date	Client Info	03 May 2023	07 Nov 2022	05 Apr 2022
Machine Age	hrs	3396	2945	2386
Oil Age	hrs	451	1393	0
Oil Changed	Client Info	Not Changed	Changed	Not Changed
Sample Status		ATTENTION	ABNORMAL	NORMAL

WEAR METALS

method	limit/base	current	history1	history2
Iron ppm	ASTM D5185m >50	0	<1	0
Chromium ppm	ASTM D5185m >10	0	0	0
Nickel ppm	ASTM D5185m >3	0	0	0
Titanium ppm	ASTM D5185m >3	0	0	0
Silver ppm	ASTM D5185m >2	0	<1	<1
Aluminum ppm	ASTM D5185m >10	0	0	1
Lead ppm	ASTM D5185m >10	0	0	0
Copper ppm	ASTM D5185m >50	11	16	0
Tin ppm	ASTM D5185m >10	0	0	0
Antimony ppm	ASTM D5185m	---	---	---
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	0
Barium ppm	ASTM D5185m 90	0	0	86
Molybdenum ppm	ASTM D5185m	0	0	0
Manganese ppm	ASTM D5185m	<1	0	0
Magnesium ppm	ASTM D5185m 90	11	1	91
Calcium ppm	ASTM D5185m 2	0	0	2
Phosphorus ppm	ASTM D5185m	1	<1	<1
Zinc ppm	ASTM D5185m	26	3	0

CONTAMINANTS

method	limit/base	current	history1	history2
Silicon ppm	ASTM D5185m >25	0	<1	<1
Sodium ppm	ASTM D5185m	4	<1	<1
Potassium ppm	ASTM D5185m >20	<1	0	0
Water %	ASTM D6304 >0.05	0.014	0.006	0.039
ppm Water	ASTM D6304 >500	140.8	69.8	392.7

FLUID CLEANLINESS

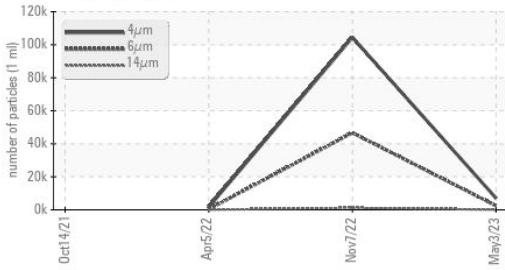
method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	7029	104427	1688
Particles >6µm	ASTM D7647 >1300	▲ 2434	▲ 46645	337
Particles >14µm	ASTM D7647 >80	61	▲ 1164	30
Particles >21µm	ASTM D7647 >20	9	▲ 116	6
Particles >38µm	ASTM D7647 >4	1	▲ 6	0
Particles >71µm	ASTM D7647 >3	0	1	0
Oil Cleanliness	ISO 4406 (c) >--/17/13	▲ 20/18/13	▲ 24/23/17	16/12

FLUID DEGRADATION

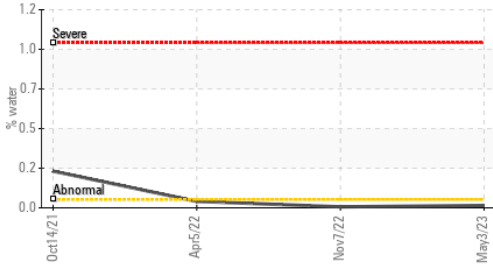
method	limit/base	current	history1	history2
Acid Number (AN) mg KOH/g	ASTM D8045 0.4	0.27	0.28	0.40

OIL ANALYSIS REPORT

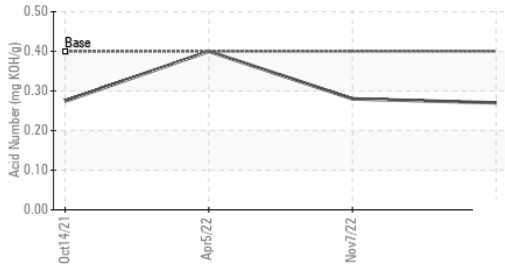
Particle Trend



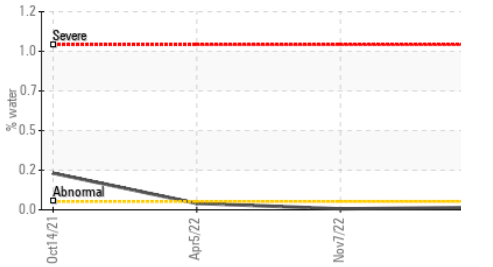
Water



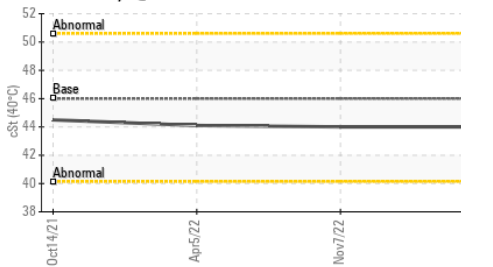
Acid Number



Water



Viscosity @ 40°C

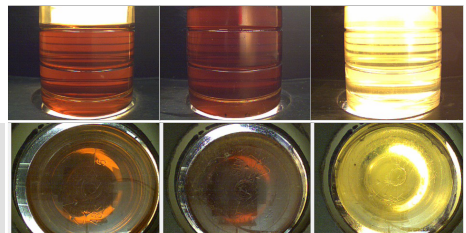


VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	LIGHT	LIGHT
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance	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	44.0	44.0	44.1

SAMPLE IMAGES	method	limit/base	current	history1	history2
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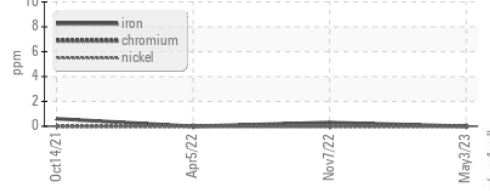
Color



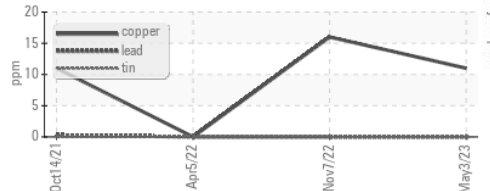
Bottom

GRAPHS

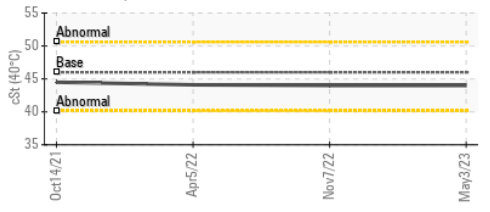
Ferrous Alloys



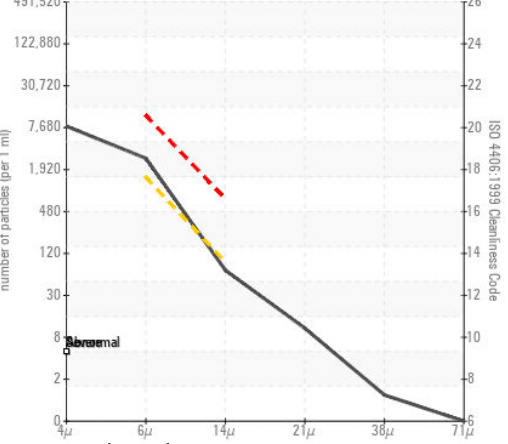
Non-ferrous Metals



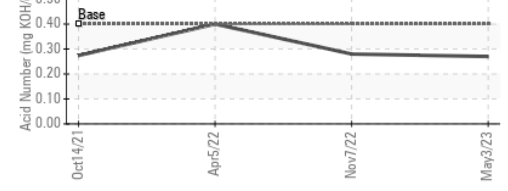
Viscosity @ 40°C



Particle Count



Acid Number



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : KC102756 **Received** : 17 May 2023
Lab Number : 05849740 **Diagnosed** : 19 May 2023
Unique Number : 10479095 **Diagnostician** : Don Baldrige
Test Package : IND 2

PRECISION COLLISION
 1301 42ND ST NW
 WINTER HAVEN, FL
 US 33881
 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)

T:
F: