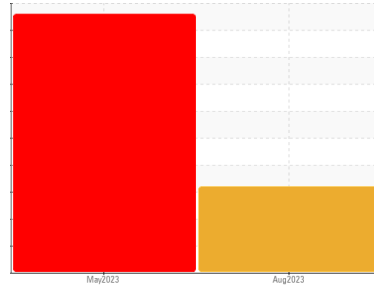




PROBLEM SUMMARY

Sample Rating Trend



WATER



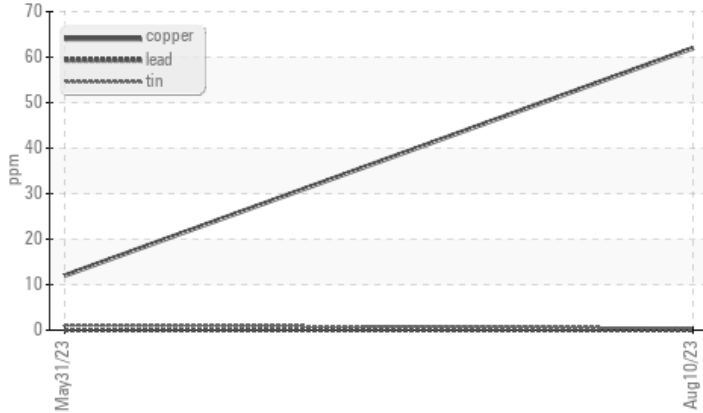
Machine Id
5386670 (S/N 4608)

Component
Compressor

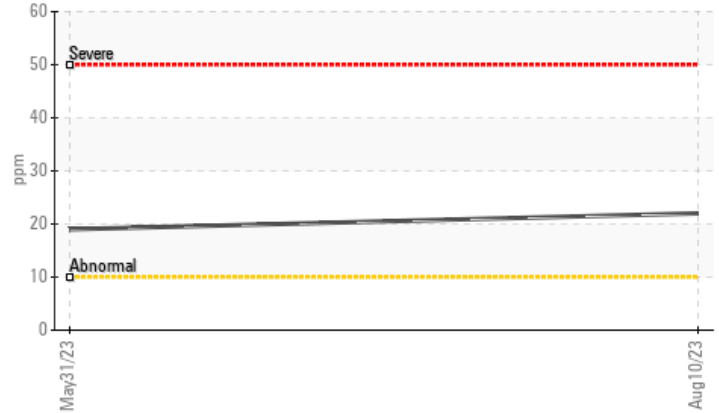
Fluid
KAESER SIGMA (OEM) FG-460 (--- GAL)

COMPONENT CONDITION SUMMARY

▲ Non-ferrous Metals



▲ Aluminum (ppm)



RECOMMENDATION

Oil and filter change at the time of sampling has been noted. There is too much water present in this sample to perform a particle count. We recommend an early resample in 500 hours to monitor this condition.

PROBLEMATIC TEST RESULTS

Sample Status				ABNORMAL	SEVERE	---
Aluminum	ppm	ASTM D5185m	>10	▲ 22	▲ 19	---
Copper	ppm	ASTM D5185m	>50	▲ 62	12	---
Free Water	scalar	*Visual		▲ 1.0	▲ 1.0	---

Customer Id: BAKLAKCA
Sample No.: KCP46381
Lab Number: 05938268
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

Action	Status	Date	Done By	Description
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.

HISTORICAL DIAGNOSIS

31 May 2023 Diag: Don Baldrige

DEGRADATION



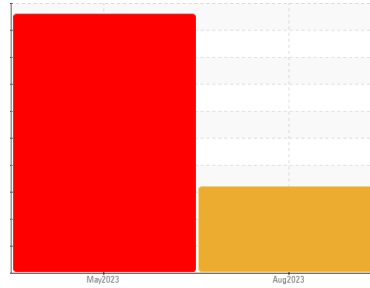
Oil and filter change at the time of sampling has been noted. We recommend an early resample in 500 hours to monitor this condition. We were unable to perform a particle count due to a high concentration of particles present in this sample. The iron level is abnormal. The aluminum level is abnormal. Moderate concentration of visible dirt/debris present in the oil. There is a moderate concentration of water present in the oil. Free water present. The AN level is above the recommended limit. The oil viscosity is higher than normal. The oil is no longer serviceable.

view report



OIL ANALYSIS REPORT

Sample Rating Trend



WATER



Machine Id
5386670 (S/N 4608)

Component
Compressor

Fluid
KAESER SIGMA (OEM) FG-460 (--- GAL)

DIAGNOSIS

▲ **Recommendation**

Oil and filter change at the time of sampling has been noted. There is too much water present in this sample to perform a particle count. We recommend an early resample in 500 hours to monitor this condition.

▲ **Wear**

Bearing and/or bushing wear is indicated.

▲ **Contamination**

Free water present.

Fluid Condition

The AN level is acceptable for this fluid.

SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		KCP46381	KCP55357	---
Sample Date	Client Info		10 Aug 2023	31 May 2023	---
Machine Age	hrs	Client Info	39176	38316	---
Oil Age	hrs	Client Info	2786	3000	---
Oil Changed	Client Info		Changed	Changed	---
Sample Status			ABNORMAL	SEVERE	---

WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >50	6	▲ 82	---
Chromium	ppm	ASTM D5185m >10	0	<1	---
Nickel	ppm	ASTM D5185m >3	0	0	---
Titanium	ppm	ASTM D5185m >3	0	0	---
Silver	ppm	ASTM D5185m >2	0	0	---
Aluminum	ppm	ASTM D5185m >10	▲ 22	▲ 19	---
Lead	ppm	ASTM D5185m >10	0	0	---
Copper	ppm	ASTM D5185m >50	▲ 62	12	---
Tin	ppm	ASTM D5185m >10	<1	1	---
Vanadium	ppm	ASTM D5185m	0	0	---
Cadmium	ppm	ASTM D5185m	0	<1	---

ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	0	---
Barium	ppm	ASTM D5185m	2	<1	---
Molybdenum	ppm	ASTM D5185m	0	<1	---
Manganese	ppm	ASTM D5185m	0	<1	---
Magnesium	ppm	ASTM D5185m	<1	5	---
Calcium	ppm	ASTM D5185m	<1	4	---
Phosphorus	ppm	ASTM D5185m 500	418	231	---
Zinc	ppm	ASTM D5185m	369	30	---
Sulfur	ppm	ASTM D5185m	2292	810	---

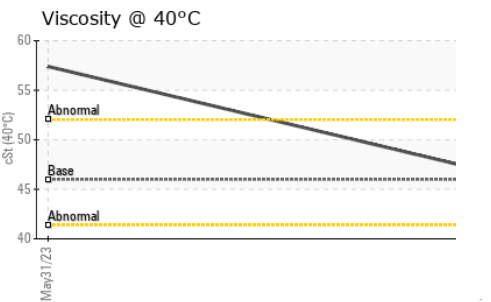
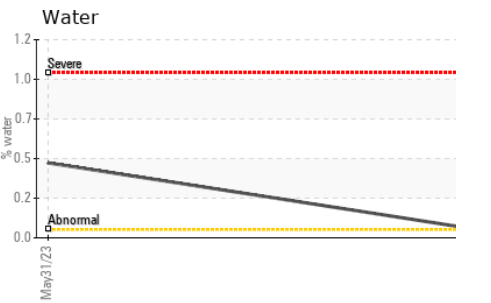
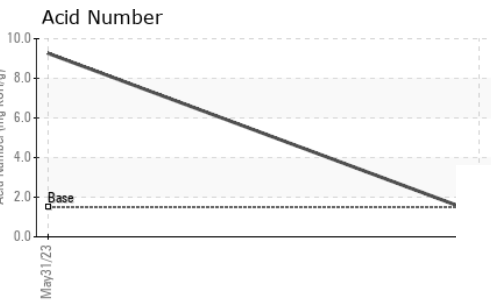
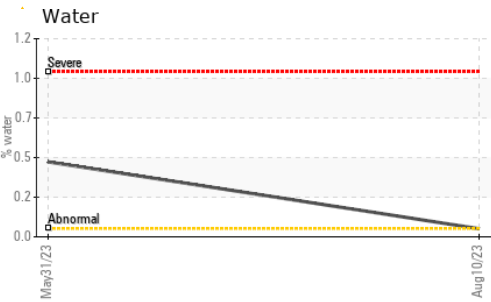
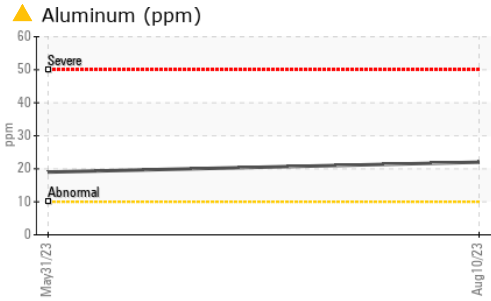
CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >25	0	0	---
Sodium	ppm	ASTM D5185m	0	3	---
Potassium	ppm	ASTM D5185m >20	2	2	---
Water	%	ASTM D6304 >0.05	0.049	▲ 0.454	---
ppm Water	ppm	ASTM D6304 >500	490	▲ 4540	---

FLUID DEGRADATION

	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045 1.5	1.17	⬇ 9.262	---

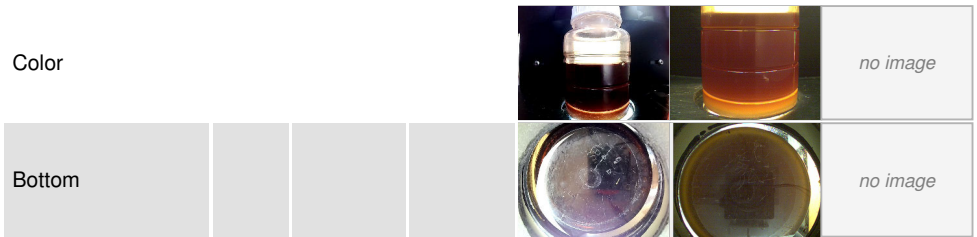
OIL ANALYSIS REPORT



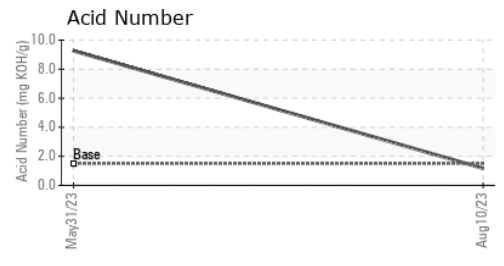
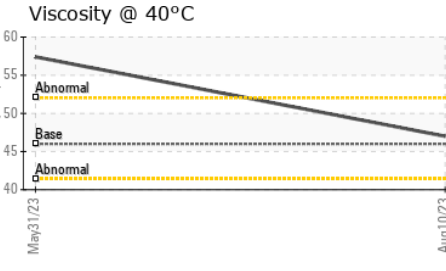
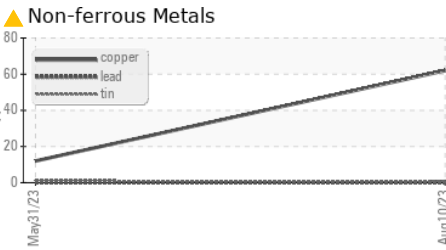
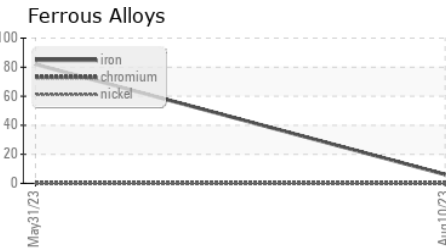
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	---
Precipitate	scalar	*Visual	NONE	NONE	---
Silt	scalar	*Visual	NONE	NONE	---
Debris	scalar	*Visual	NONE	NONE	▲ MODER
Sand/Dirt	scalar	*Visual	NONE	NONE	---
Appearance	scalar	*Visual	NORML	NORML	▲ HAZY
Odor	scalar	*Visual	NORML	NORML	---
Emulsified Water	scalar	*Visual	>0.05	0.2%	▲ 0.2%
Free Water	scalar	*Visual		1.0	▲ 1.0

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445 46	47.0	▲ 57.4	---

SAMPLE IMAGES	method	limit/base	current	history1	history2
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GRAPHS



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : KCP46381 **Received** : 30 Aug 2023
Lab Number : 05938268 **Diagnosed** : 31 Aug 2023
Unique Number : 10628880 **Diagnostician** : Don Baldrige

BAKER WATER TREATMENT
 50 CIVIC CENTER DR
 LAKE FOREST, CA
 US 92630
 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: