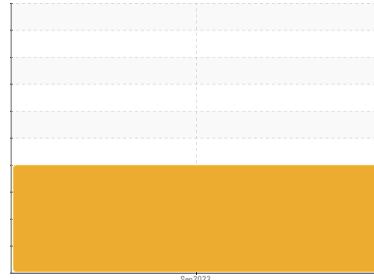# KAESER COMPRESSORS
Built for a lifetime.

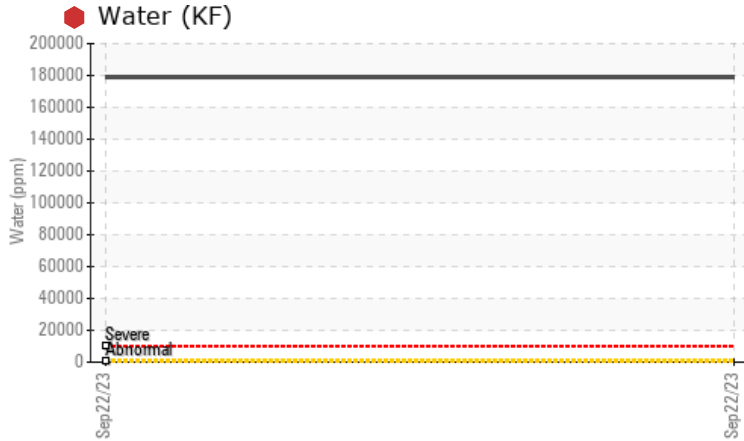## PROBLEM SUMMARY

Sample Rating Trend

Sep2023

WATER

Machine Id
4886618 (S/N 1073)
Component
Compressor
Fluid
KAESER SIGMA (OEM) FG-460 (--- GAL)

COMPONENT CONDITION SUMMARY

Water (KF)

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				**SEVERE**	---	---
Water	%	ASTM D6304	>0.05	🔴 **17.9**	---	---
ppm Water	ppm	ASTM D6304	>500	🔴 **179000**	---	---
Appearance	scalar	*Visual	NORML	🔺 **HAZY**	---	---
Emulsified Water	scalar	*Visual	>0.05	🔴 **0.2%**	---	---

Customer Id: NATPRO
Sample No.: KCPA000585
Lab Number: 05965391
Test Package: IND 2

To manage this report scan the QR code

To discuss the diagnosis or test data:
Jonathan Hester +1 919-379-4092 x4092
jhester@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
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

OIL ANALYSIS REPORT

KAESER COMPRESSORS
Built for a lifetime.

Sample Rating Trend

Machine Id
4886618 (S/N 1073)
Component
Compressor
Fluid
KAESER SIGMA (OEM) FG-460 (--- GAL)

Sep 2023

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

All component wear rates are normal.

🔴 **Contamination**

Appearance is unacceptable There is a high concentration of water 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		**KCPA000585**	---	---
Sample Date	Client Info		**22 Sep 2023**	---	---
Machine Age	hrs	Client Info	**21785**	---	---
Oil Age	hrs	Client Info	**0**	---	---
Oil Changed		Client Info	**Changed**	---	---
Sample Status			**SEVERE**	---	---

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>50	**21**	---	---
Chromium	ppm	ASTM D5185m	>10	**0**	---	---
Nickel	ppm	ASTM D5185m	>3	**0**	---	---
Titanium	ppm	ASTM D5185m	>3	**0**	---	---
Silver	ppm	ASTM D5185m	>2	**0**	---	---
Aluminum	ppm	ASTM D5185m	>10	**5**	---	---
Lead	ppm	ASTM D5185m	>10	**0**	---	---
Copper	ppm	ASTM D5185m	>50	**3**	---	---
Tin	ppm	ASTM D5185m	>10	**0**	---	---
Vanadium	ppm	ASTM D5185m		**0**	---	---
Cadmium	ppm	ASTM D5185m		**0**	---	---

ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		**0**	---	---
Barium	ppm	ASTM D5185m		**0**	---	---
Molybdenum	ppm	ASTM D5185m		**0**	---	---
Manganese	ppm	ASTM D5185m		**0**	---	---
Magnesium	ppm	ASTM D5185m		**3**	---	---
Calcium	ppm	ASTM D5185m		**0**	---	---
Phosphorus	ppm	ASTM D5185m	500	**198**	---	---
Zinc	ppm	ASTM D5185m		**256**	---	---
Sulfur	ppm	ASTM D5185m		**1636**	---	---

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	**0**	---	---
Sodium	ppm	ASTM D5185m		**1**	---	---
Potassium	ppm	ASTM D5185m	>20	**0**	---	---
Water	%	ASTM D6304	>0.05	🔴 **17.9**	---	---
ppm Water	ppm	ASTM D6304	>500	🔴 **179000**	---	---

FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	1.5	**0.50**	---	---

OIL ANALYSIS REPORT

KAESER COMPRESSORS — Built for a lifetime.™

Water (KF)

Water (ppm) — Severe / Abnormal

Acid Number

Acid Number (mg KOH/g) — Base

Viscosity @ 40°C

cSt (40°C) — Abnormal / Base / Abnormal
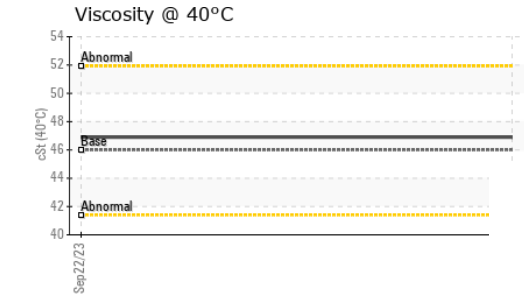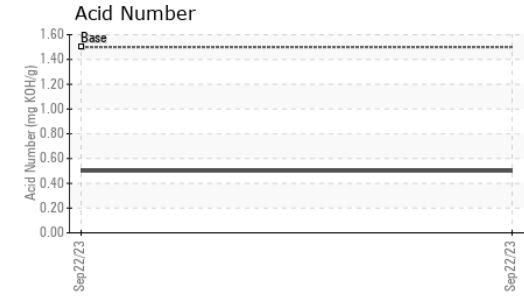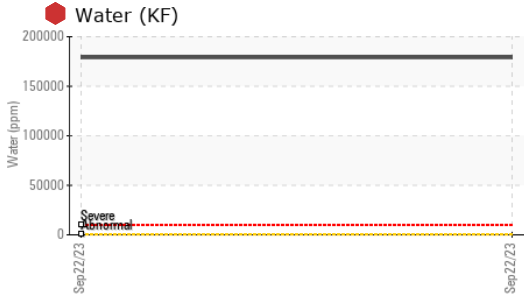
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	**NONE**	---	---
Yellow Metal	scalar	*Visual	NONE	**NONE**	---	---
Precipitate	scalar	*Visual	NONE	**NONE**	---	---
Silt	scalar	*Visual	NONE	**NONE**	---	---
Debris	scalar	*Visual	NONE	**NONE**	---	---
Sand/Dirt	scalar	*Visual	NONE	**NONE**	---	---
Appearance	scalar	*Visual	NORML	⚠ **HAZY**	---	---
Odor	scalar	*Visual	NORML	**NORML**	---	---
Emulsified Water	scalar	*Visual	>0.05	🔴 **0.2%**	---	---
Free Water	scalar	*Visual		**NEG**	---	---

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445 46	**46.9**	---	---

SAMPLE IMAGES	method	limit/base	current	history1	history2
Color				no image	no image
Bottom				no image	no image

GRAPHS
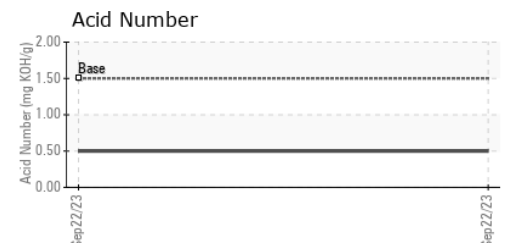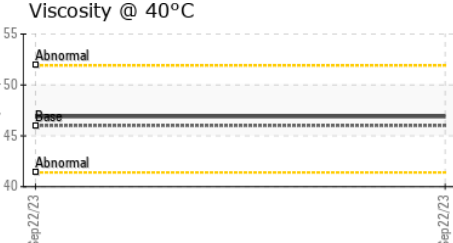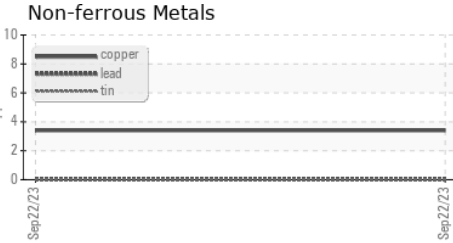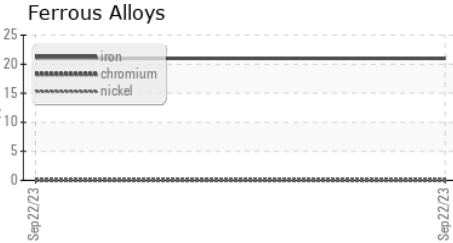
Ferrous Alloys

ppm — iron, chromium, nickel

Non-ferrous Metals

ppm — copper, lead, tin

Viscosity @ 40°C

cSt (40°C) — Abnormal / Base / Abnormal

Acid Number

Acid Number (mg KOH/g) — Base

ANAB ACCREDITED — GOV-VC 0558 TESTING LABORATORY — Certificate L2367

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.   T:
Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)   F: