



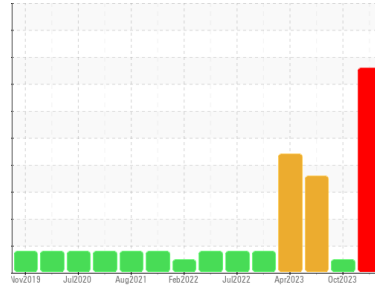
PROBLEM SUMMARY

Sample Rating Trend

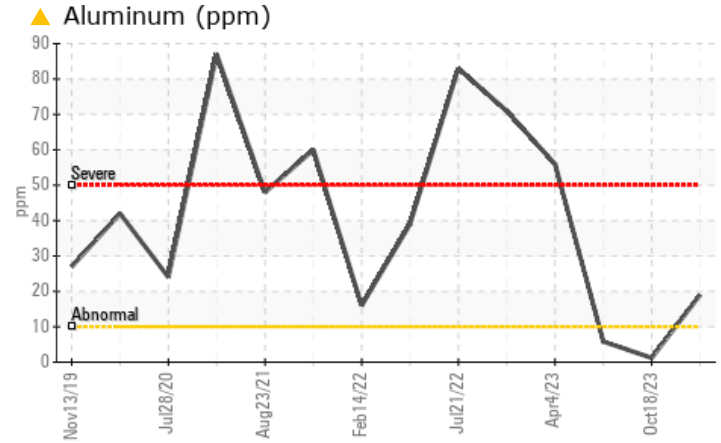
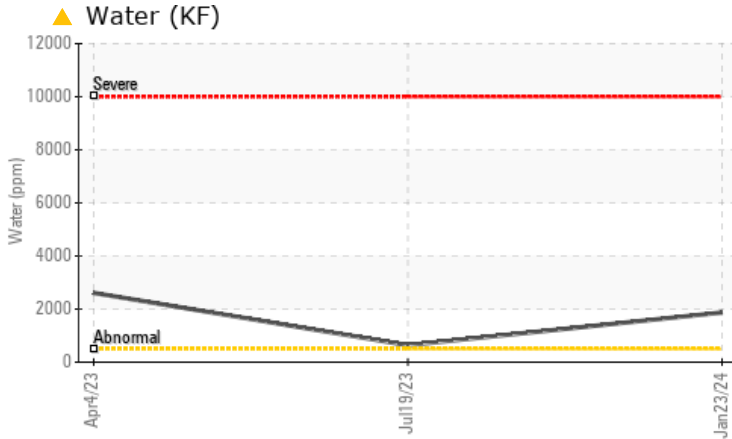
WATER



Area
[2152]
 Machine Id
KAESER 6094304- US WAFFLE (S/N 1771)
 Component
Compressor
 Fluid
KAESER SIGMA (OEM) FG-460 (10 GAL)



COMPONENT CONDITION SUMMARY



RECOMMENDATION

We advise that you check for the source of water entry. Oil and filter change at the time of sampling has been noted. We recommend an early resample to monitor this condition.

PROBLEMATIC TEST RESULTS

Sample Status				SEVERE	NORMAL	ABNORMAL
Aluminum	ppm	ASTM D5185m	>10	▲ 19	1	6
Water	%	ASTM D6304	>0.05	▲ 0.187	---	▲ 0.064
ppm Water	ppm	ASTM D6304	>500	▲ 1870	---	▲ 640
Debris	scalar	*Visual	NONE	▲ MODER	NONE	▲ MODER
Emulsified Water	scalar	*Visual	>0.05	▲ 0.2%	NEG	0.2%
Free Water	scalar	*Visual		▲ >10%	NEG	▲ 1.0

Customer Id: PALFOU
 Sample No.: WC0887804
 Lab Number: 06125029
 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.
Resample	---	---	?	We recommend an early resample to monitor this condition.
Check Water Access	---	---	?	We advise that you check for the source of water entry.

HISTORICAL DIAGNOSIS

18 Oct 2023 Diag: Don Baldrige

NORMAL



Oil and filter change at the time of sampling has been noted. 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 AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

view report



19 Jul 2023 Diag: Don Baldrige

WATER



We advise that you follow the water drain-off procedure for this component. The filter change at the time of sampling has been noted. Resample at the next service interval to monitor. All component wear rates are normal. Moderate concentration of visible dirt/debris present in the oil. There is a light concentration of water present in the oil. Free water present. The AN level is acceptable for this fluid.

view report



04 Apr 2023 Diag: Jonathan Hester

WATER



We advise that you follow the water drain-off procedure for this component. The filter change at the time of sampling has been noted. Resample at the next service interval to monitor. The aluminum level is abnormal. All other component wear rates are normal. Free water present. There is a light concentration of water present in the oil. Moderate concentration of visible dirt/debris present in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

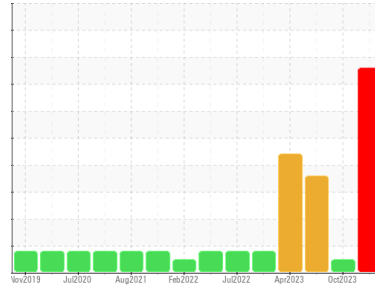
view report





OIL ANALYSIS REPORT

Sample Rating Trend



WATER



Area
[2152]
 Machine Id
KAESER 6094304- US WAFFLE (S/N 1771)
 Component
Compressor
 Fluid
KAESER SIGMA (OEM) FG-460 (10 GAL)

DIAGNOSIS

▲ Recommendation

We advise that you check for the source of water entry. Oil and filter change at the time of sampling has been noted. We recommend an early resample to monitor this condition.

▲ Wear

The aluminum level is abnormal.

▲ Contamination

Moderate concentration of visible dirt/debris present in the oil. There is a light concentration of water present in the oil. Excessive free water present.

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		WC0887804	WC0845243	WC0826059
Sample Date	Client Info		23 Jan 2024	18 Oct 2023	19 Jul 2023
Machine Age	hrs	Client Info	31255	30383	29127
Oil Age	hrs	Client Info	1000	2300	3979
Oil Changed	Client Info		Changed	Changed	Not Changed
Sample Status			SEVERE	NORMAL	ABNORMAL

WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >50	4	0	<1
Chromium	ppm	ASTM D5185m >10	<1	0	0
Nickel	ppm	ASTM D5185m >3	0	0	0
Titanium	ppm	ASTM D5185m >3	<1	0	0
Silver	ppm	ASTM D5185m >2	0	0	0
Aluminum	ppm	ASTM D5185m >10	▲ 19	1	6
Lead	ppm	ASTM D5185m >10	<1	0	0
Copper	ppm	ASTM D5185m >50	1	4	2
Tin	ppm	ASTM D5185m >10	<1	0	0
Vanadium	ppm	ASTM D5185m	<1	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	2	0	11
Molybdenum	ppm	ASTM D5185m	<1	0	0
Manganese	ppm	ASTM D5185m	0	<1	0
Magnesium	ppm	ASTM D5185m	<1	0	2
Calcium	ppm	ASTM D5185m	3	0	0
Phosphorus	ppm	ASTM D5185m 500	200	20	113
Zinc	ppm	ASTM D5185m	30	4	50
Sulfur	ppm	ASTM D5185m	1634	1224	1788

CONTAMINANTS

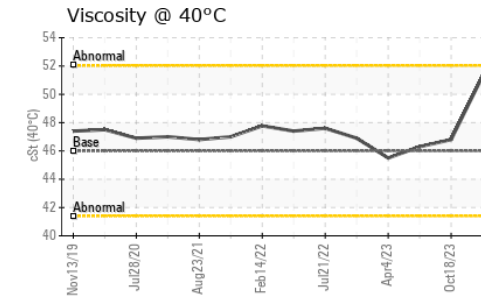
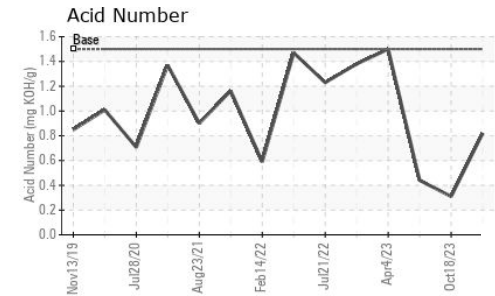
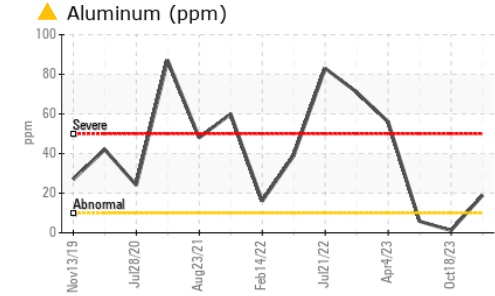
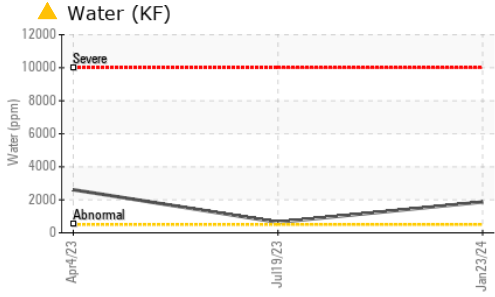
	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >25	4	3	0
Sodium	ppm	ASTM D5185m	0	<1	0
Potassium	ppm	ASTM D5185m >20	2	1	0
Water	%	ASTM D6304 >0.05	▲ 0.187	---	▲ 0.064
ppm Water	ppm	ASTM D6304 >500	▲ 1870	---	▲ 640

FLUID DEGRADATION

	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045 1.5	0.82	0.31	0.44



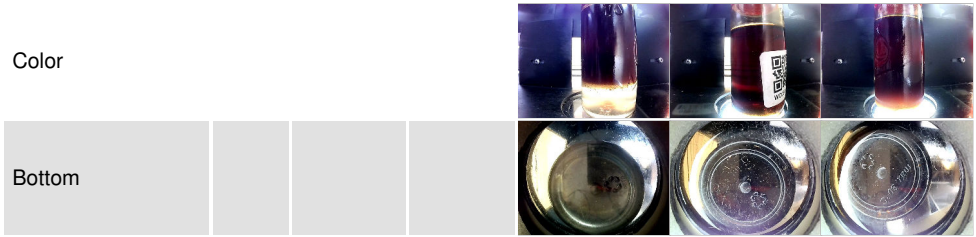
OIL ANALYSIS REPORT



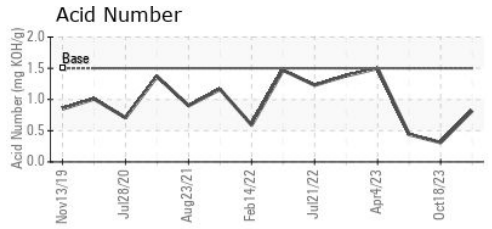
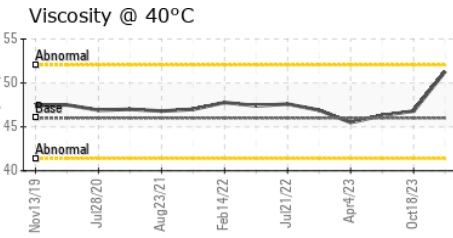
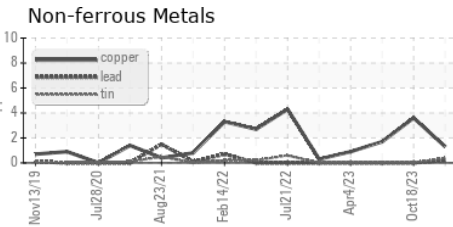
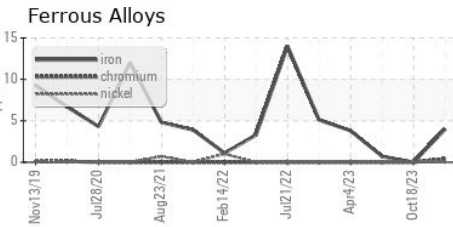
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	▲ MODER	▲ MODER
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.05	▲ 0.2%	NEG
Free Water	scalar	*Visual		▲ >10%	NEG

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	46	51.3	46.8

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. : WC0887804 **Received** : 21 Mar 2024
Lab Number : 06125029 **Tested** : 25 Mar 2024
Unique Number : 10939180 **Diagnosed** : 25 Mar 2024 - Don Baldrige
Test Package : IND 2 (Additional Tests: KF)

ELEVATED INDUSTRIAL SOLUTIONS - EIS
 302 HUGHES ST
 FOUNTAIN INN, SC
 US 29644
 Contact: DARRIN WARD
 dward@elevatedindustrial.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)

T: (864)862-7653