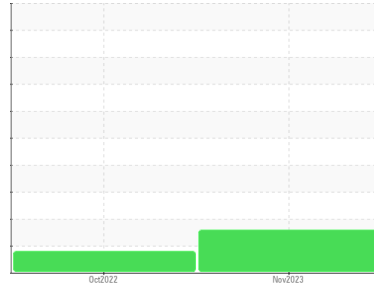




PROBLEM SUMMARY

Sample Rating Trend



ISO



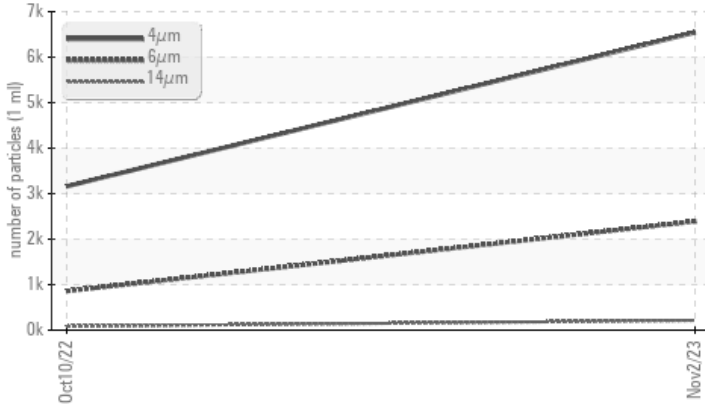
Machine Id
8361574 (S/N 1609)

Component
Compressor

Fluid
KAESER SIGMA (OEM) S-460 (--- QTS)

COMPONENT CONDITION SUMMARY

▲ Particle Trend



RECOMMENDATION

No corrective action is recommended at this time. The filter change at the time of sampling has been noted. Resample at the next service interval to monitor.

PROBLEMATIC TEST RESULTS

Sample Status			ABNORMAL	ATTENTION	---
Particles >6µm	ASTM D7647	>1300	▲ 2389	858	---
Particles >14µm	ASTM D7647	>80	▲ 214	▲ 83	---
Particles >21µm	ASTM D7647	>20	▲ 56	18	---
Oil Cleanliness	ISO 4406 (c)	>--/17/13	▲ 20/18/15	▲ 19/17/14	---

Customer Id: LAFLAFKC
Sample No.: KC124382
Lab Number: 06027751
Test Package: IND 2



To manage this report scan the QR code

To discuss the diagnosis or test data:
Doug Bogart +1 (800)237-1369 x4016
dougb@wearcheckusa.com

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

10 Oct 2022 Diag: Don Baldrige

ISO



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 a moderate 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.

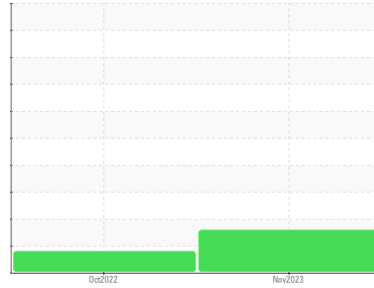
view report





OIL ANALYSIS REPORT

Sample Rating Trend



Machine Id
8361574 (S/N 1609)
 Component
Compressor
 Fluid
KAESER SIGMA (OEM) S-460 (--- QTS)

DIAGNOSIS

Recommendation

No corrective action is recommended at this time. The filter change at the time of sampling has been noted. Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

There is a high amount of particulates 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	KC124382	KC27168D	---
Sample Date	Client Info	02 Nov 2023	10 Oct 2022	---
Machine Age	hrs	10156	3503	---
Oil Age	hrs	0	3503	---
Oil Changed	Client Info	N/A	Changed	---
Sample Status		ABNORMAL	ATTENTION	---

WEAR METALS

method	limit/base	current	history1	history2
Iron ppm	ASTM D5185m >50	0	<1	---
Chromium ppm	ASTM D5185m >10	<1	0	---
Nickel ppm	ASTM D5185m >3	0	0	---
Titanium ppm	ASTM D5185m >3	<1	0	---
Silver ppm	ASTM D5185m >2	0	0	---
Aluminum ppm	ASTM D5185m >10	2	0	---
Lead ppm	ASTM D5185m >10	0	<1	---
Copper ppm	ASTM D5185m >50	8	3	---
Tin ppm	ASTM D5185m >10	0	0	---
Vanadium ppm	ASTM D5185m	0	0	---
Cadmium ppm	ASTM D5185m	0	0	---

ADDITIVES

method	limit/base	current	history1	history2
Boron ppm	ASTM D5185m	0	0	---
Barium ppm	ASTM D5185m 90	26	51	---
Molybdenum ppm	ASTM D5185m	0	0	---
Manganese ppm	ASTM D5185m	0	<1	---
Magnesium ppm	ASTM D5185m 90	39	68	---
Calcium ppm	ASTM D5185m 2	<1	4	---
Phosphorus ppm	ASTM D5185m	29	6	---
Zinc ppm	ASTM D5185m	0	7	---

CONTAMINANTS

method	limit/base	current	history1	history2
Silicon ppm	ASTM D5185m >25	<1	<1	---
Sodium ppm	ASTM D5185m	24	20	---
Potassium ppm	ASTM D5185m >20	20	21	---
Water %	ASTM D6304 >0.05	0.017	0.023	---
ppm Water	ASTM D6304 >500	174	236.3	---

FLUID CLEANLINESS

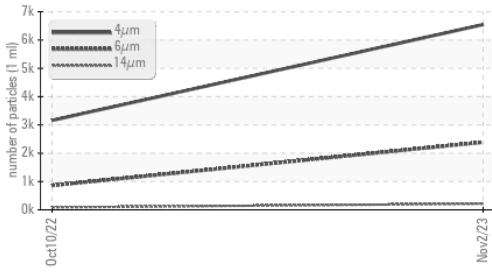
method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	6545	3161	---
Particles >6µm	ASTM D7647 >1300	▲ 2389	858	---
Particles >14µm	ASTM D7647 >80	▲ 214	▲ 83	---
Particles >21µm	ASTM D7647 >20	▲ 56	18	---
Particles >38µm	ASTM D7647 >4	1	1	---
Particles >71µm	ASTM D7647 >3	0	0	---
Oil Cleanliness	ISO 4406 (c) >--/17/13	▲ 20/18/15	▲ 19/17/14	---

FLUID DEGRADATION

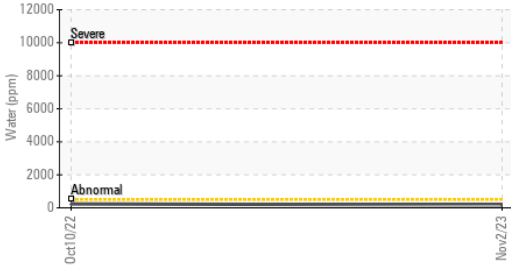
method	limit/base	current	history1	history2
Acid Number (AN) mg KOH/g	ASTM D8045 0.4	0.24	0.29	---

OIL ANALYSIS REPORT

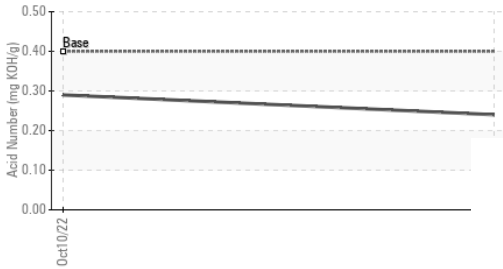
▲ Particle Trend



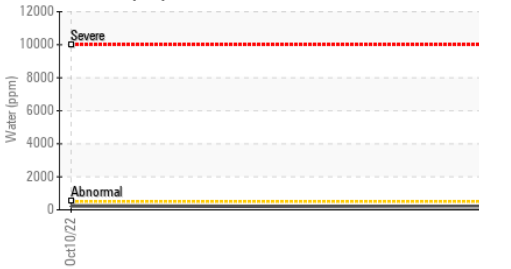
Water (KF)



Acid Number



Water (KF)



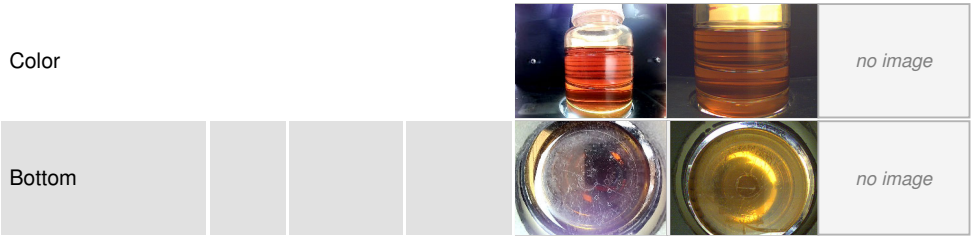
Viscosity @ 40°C



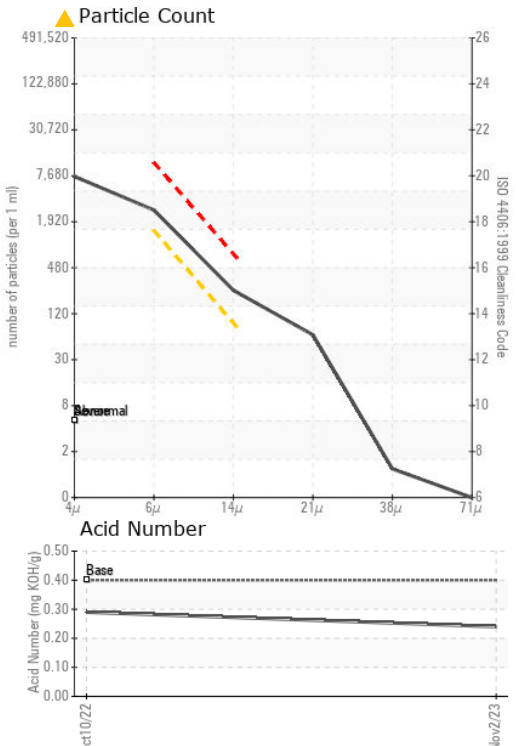
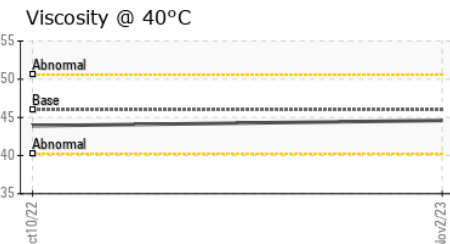
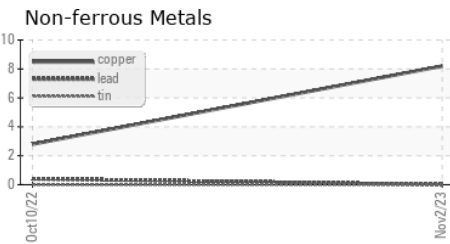
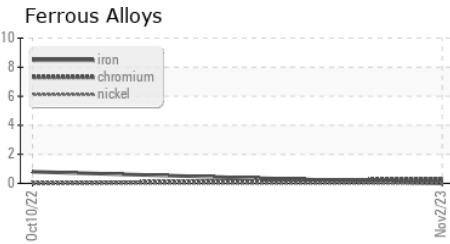
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	---
Precipitate	scalar	*Visual	NONE	NONE	---
Silt	scalar	*Visual	NONE	NONE	---
Debris	scalar	*Visual	NONE	NONE	---
Sand/Dirt	scalar	*Visual	NONE	NONE	---
Appearance	scalar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

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	46	44.6	43.9

SAMPLE IMAGES	method	limit/base	current	history1	history2
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GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : KC124382 **Received** : 07 Dec 2023
Lab Number : 06027751 **Diagnosed** : 08 Dec 2023
Unique Number : 10777542 **Diagnostician** : Doug Bogart
Test Package : IND 2

LAFRANCE INDUSTRIES
 LAFRANCE, SC
 US
 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: