



PROBLEM SUMMARY

Sample Rating Trend



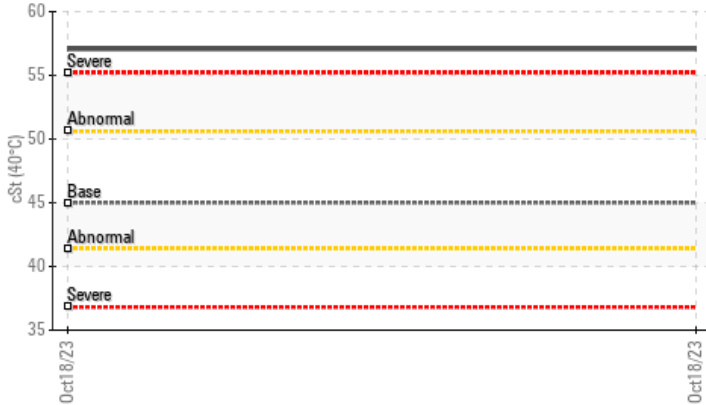
VISCOSITY



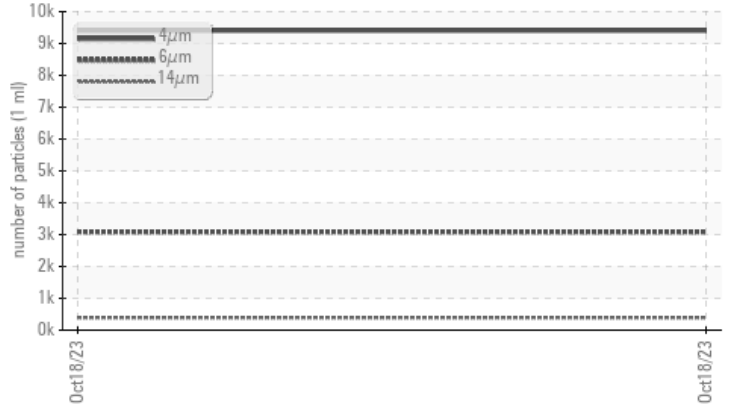
Machine Id
KAESER 5914218 (S/N 2000)
 Component
Compressor
 Fluid
KAESER SIGMA (OEM) M-460 (--- GAL)

COMPONENT CONDITION SUMMARY

▲ Viscosity @ 40°C



▲ Particle Trend



RECOMMENDATION

The filter change at the time of sampling has been noted. Resample at the next service interval to monitor.

PROBLEMATIC TEST RESULTS

Sample Status	ASTM	Value	Result	---	---
Particles >6µm	ASTM D7647	>1300	▲ 3085	---	---
Particles >14µm	ASTM D7647	>80	▲ 391	---	---
Particles >21µm	ASTM D7647	>20	▲ 134	---	---
Particles >38µm	ASTM D7647	>4	▲ 6	---	---
Oil Cleanliness	ISO 4406 (c)	>--/17/13	▲ 20/19/16	---	---
Visc @ 40°C	cSt ASTM D445	45	▲ 57.07	---	---

Customer Id: TOMRED
 Sample No.: KCPA007659
 Lab Number: 05994373
 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

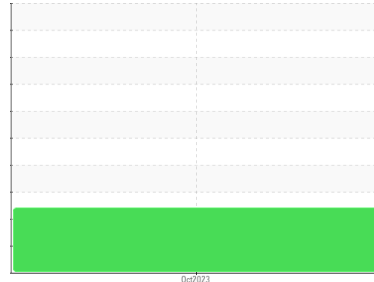
There are no recommended actions for this sample.

HISTORICAL DIAGNOSIS



OIL ANALYSIS REPORT

Sample Rating Trend



VISCOSITY



Machine Id
KAESER 5914218 (S/N 2000)
 Component
Compressor
 Fluid
KAESER SIGMA (OEM) M-460 (--- GAL)

DIAGNOSIS

▲ Recommendation

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 oil viscosity is higher than normal. The AN level is acceptable for this fluid.

SAMPLE INFORMATION

method	limit/base	current	history1	history2
Sample Number	Client Info	KCPA007659	---	---
Sample Date	Client Info	18 Oct 2023	---	---
Machine Age	hrs Client Info	13737	---	---
Oil Age	hrs Client Info	0	---	---
Oil Changed	Client Info	N/A	---	---
Sample Status		ABNORMAL	---	---

WEAR METALS

method	limit/base	current	history1	history2
Iron ppm ASTM D5185m	>50	0	---	---
Chromium ppm ASTM D5185m	>10	<1	---	---
Nickel ppm ASTM D5185m	>3	0	---	---
Titanium ppm ASTM D5185m	>3	0	---	---
Silver ppm ASTM D5185m	>2	0	---	---
Aluminum ppm ASTM D5185m	>10	<1	---	---
Lead ppm ASTM D5185m	>10	0	---	---
Copper ppm ASTM D5185m	>50	9	---	---
Tin ppm ASTM D5185m	>10	<1	---	---
Vanadium ppm ASTM D5185m		0	---	---
Cadmium ppm ASTM D5185m		0	---	---

ADDITIVES

method	limit/base	current	history1	history2
Boron ppm ASTM D5185m	0	0	---	---
Barium ppm ASTM D5185m	90	20	---	---
Molybdenum ppm ASTM D5185m	0	0	---	---
Manganese ppm ASTM D5185m		0	---	---
Magnesium ppm ASTM D5185m	100	0	---	---
Calcium ppm ASTM D5185m	0	0	---	---
Phosphorus ppm ASTM D5185m	0	33	---	---
Zinc ppm ASTM D5185m	0	19	---	---
Sulfur ppm ASTM D5185m	23500	21514	---	---

CONTAMINANTS

method	limit/base	current	history1	history2
Silicon ppm ASTM D5185m	>25	<1	---	---
Sodium ppm ASTM D5185m		4	---	---
Potassium ppm ASTM D5185m	>20	0	---	---
Water % ASTM D6304	>0.05	0.005	---	---
ppm Water ppm ASTM D6304	>500	51.6	---	---

FLUID CLEANLINESS

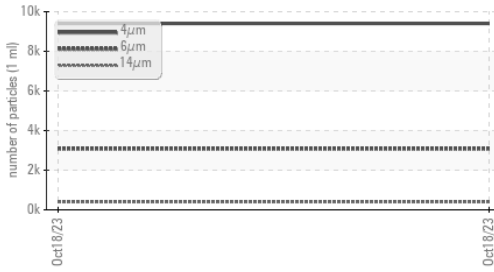
method	limit/base	current	history1	history2
Particles >4µm ASTM D7647		9405	---	---
Particles >6µm ASTM D7647	>1300	▲ 3085	---	---
Particles >14µm ASTM D7647	>80	▲ 391	---	---
Particles >21µm ASTM D7647	>20	▲ 134	---	---
Particles >38µm ASTM D7647	>4	▲ 6	---	---
Particles >71µm ASTM D7647	>3	0	---	---
Oil Cleanliness ISO 4406 (c)	>--/17/13	▲ 20/19/16	---	---

FLUID DEGRADATION

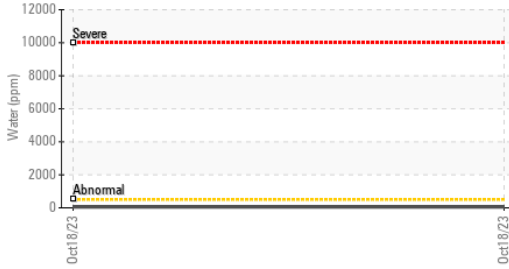
method	limit/base	current	history1	history2
Acid Number (AN) mg KOH/g ASTM D8045	1.0	0.49	---	---

OIL ANALYSIS REPORT

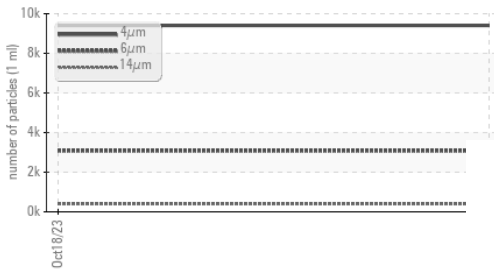
▲ Particle Trend



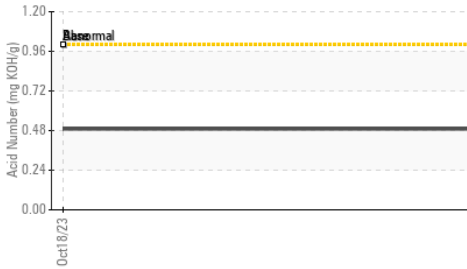
Water (KF)



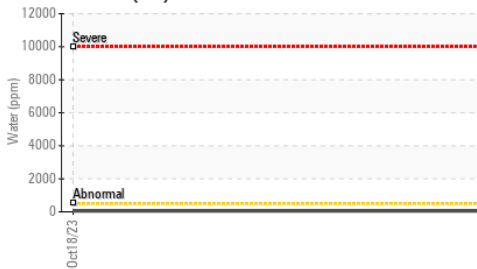
▲ Particle Trend



Acid Number



Water (KF)



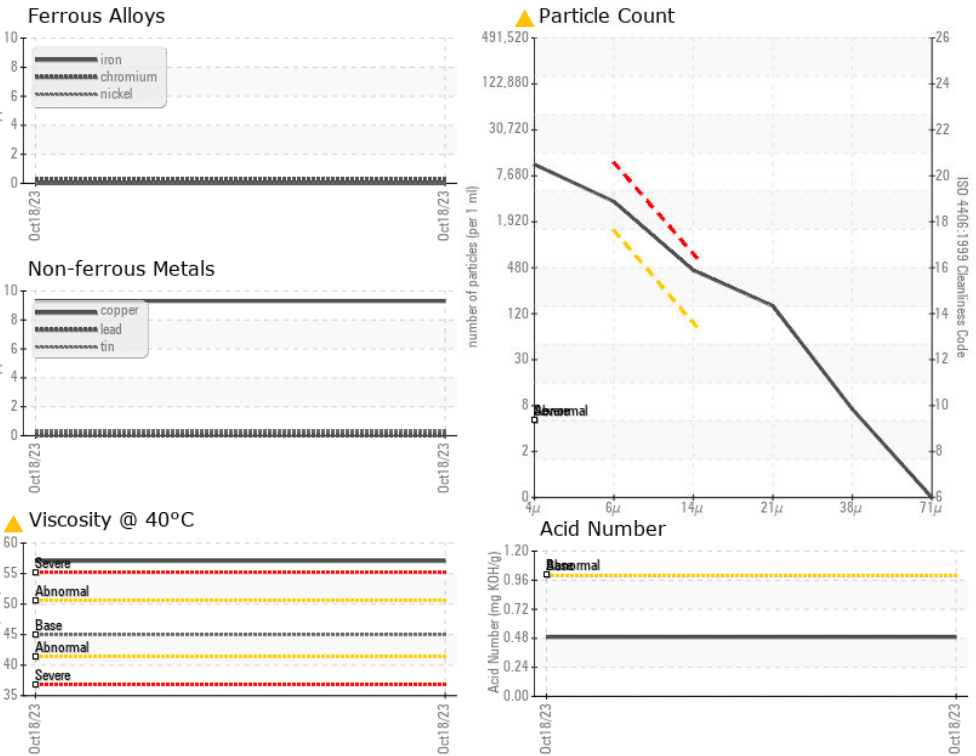
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	---
Precipitate	scalar	*Visual	NONE	NONE	---
Silt	scalar	*Visual	NONE	NONE	---
Debris	scalar	*Visual	NONE	NONE	---
Sand/Dirt	scalar	*Visual	NONE	NONE	---
Appearance	scalar	*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	45	▲ 57.07	---

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

GRAPHS



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : KCPA007659 **Received** : 31 Oct 2023
Lab Number : 05994373 **Diagnosed** : 08 Nov 2023
Unique Number : 10722733 **Diagnostician** : Jonathan Hester
Test Package : IND 2 (Additional Tests: KF, PrtCount)

TOM BELL COLLISION CENTER
 1105 W REDLANDS BLVD
 REDLANDS, CA
 US 92373
 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: