

PROBLEM SUMMARY

Sample Rating Trend



VISCOSITY



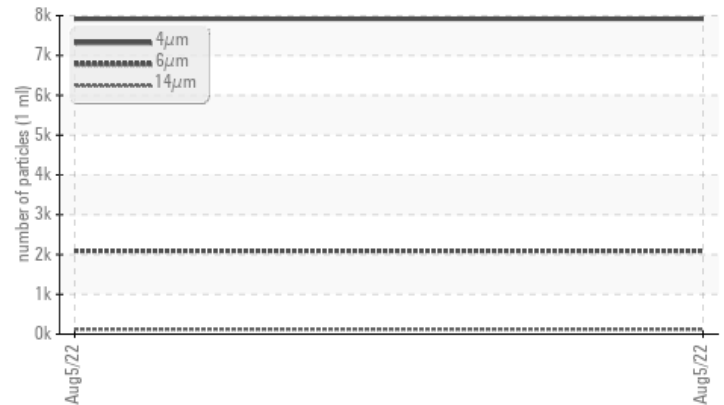
Machine Id
KAESER ES 250 251129
Component
Compressor
Fluid
KAESER SIGMA (OEM) FG-460 (--- GAL)

COMPONENT CONDITION SUMMARY

▲ Viscosity @ 40°C



▲ Particle Trend



RECOMMENDATION

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

PROBLEMATIC TEST RESULTS

Sample Status			ABNORMAL	---	---
Particles >6µm	ASTM D7647	>1300	▲ 2091	---	---
Particles >14µm	ASTM D7647	>80	▲ 122	---	---
Particles >21µm	ASTM D7647	>20	▲ 24	---	---
Oil Cleanliness	ISO 4406 (c)	>--/17/13	▲ 20/18/14	---	---
Visc @ 40°C	cSt	ASTM D445	46	▲ 55.29	---

Customer Id: DARLANKC
Sample No.: KCP44948
Lab Number: 05645548
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

Sample Rating Trend



VISCOSITY



Machine Id
KAESER ES 250 251129
Component
Compressor
Fluid
KAESER SIGMA (OEM) FG-460 (--- GAL)

DIAGNOSIS

▲ **Recommendation**

Oil and 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 moderate 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 history 1 history 2

Sample Number			KCP44948	---	---
Sample Date			05 Aug 2022	---	---
Machine Age	hrs		102584	---	---
Oil Age	hrs		3658	---	---
Oil Changed			Changed	---	---
Sample Status			ABNORMAL	---	---

WEAR METALS method limit/base current history 1 history 2

Iron	ppm	ASTM D5185m	>50	2	---	---
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	<1	---	---
Lead	ppm	ASTM D5185m	>10	0	---	---
Copper	ppm	ASTM D5185m	>50	7	---	---
Tin	ppm	ASTM D5185m	>10	<1	---	---
Vanadium	ppm	ASTM D5185m		0	---	---
Cadmium	ppm	ASTM D5185m		0	---	---

ADDITIVES method limit/base current history 1 history 2

Boron	ppm	ASTM D5185m		0	---	---
Barium	ppm	ASTM D5185m		0	---	---
Molybdenum	ppm	ASTM D5185m		0	---	---
Manganese	ppm	ASTM D5185m		0	---	---
Magnesium	ppm	ASTM D5185m		<1	---	---
Calcium	ppm	ASTM D5185m		0	---	---
Phosphorus	ppm	ASTM D5185m	500	105	---	---
Zinc	ppm	ASTM D5185m		84	---	---
Sulfur	ppm	ASTM D5185m		321	---	---

CONTAMINANTS method limit/base current history 1 history 2

Silicon	ppm	ASTM D5185m	>25	<1	---	---
Sodium	ppm	ASTM D5185m		<1	---	---
Potassium	ppm	ASTM D5185m	>20	0	---	---
Water	%	ASTM D6304	>0.05	0.005	---	---
ppm Water	ppm	ASTM D6304	>500	58.9	---	---

FLUID CLEANLINESS method limit/base current history 1 history 2

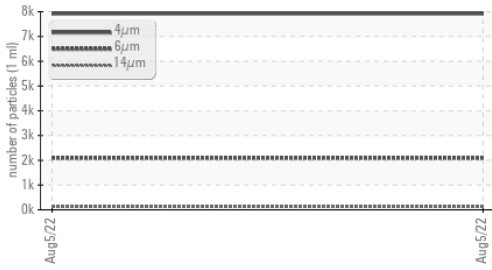
Particles >4µm		ASTM D7647		7919	---	---
Particles >6µm		ASTM D7647	>1300	▲ 2091	---	---
Particles >14µm		ASTM D7647	>80	▲ 122	---	---
Particles >21µm		ASTM D7647	>20	▲ 24	---	---
Particles >38µm		ASTM D7647	>4	0	---	---
Particles >71µm		ASTM D7647	>3	0	---	---
Oil Cleanliness		ISO 4406 (c)	>--/17/13	▲ 20/18/14	---	---

FLUID DEGRADATION method limit/base current history 1 history 2

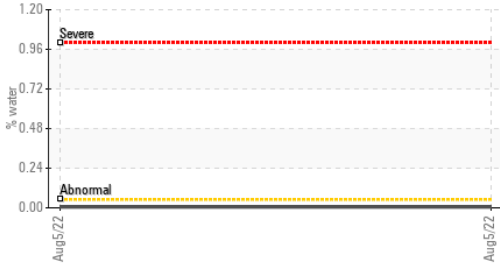
Acid Number (AN)	mg KOH/g	ASTM D8045	1.5	0.76	---	---
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OIL ANALYSIS REPORT

▲ Particle Trend



Water



VISUAL	method	limit/base	current	history 1	history 2
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	---

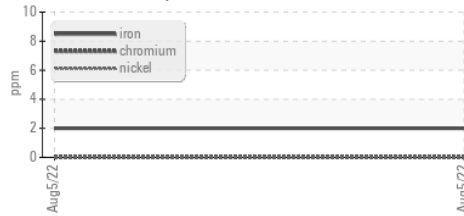
FLUID PROPERTIES	method	limit/base	current	history 1	history 2
Visc @ 40°C	cSt	ASTM D445	46	▲ 55.29	---

SAMPLE IMAGES	method	limit/base	current	history 1	history 2
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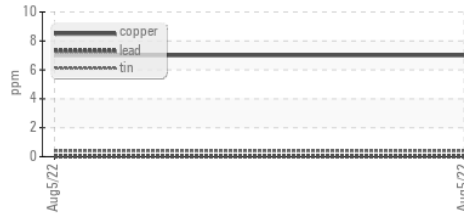
Color				no image	no image
Bottom				no image	no image

GRAPHS

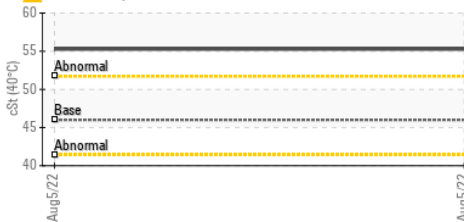
Ferrous Alloys



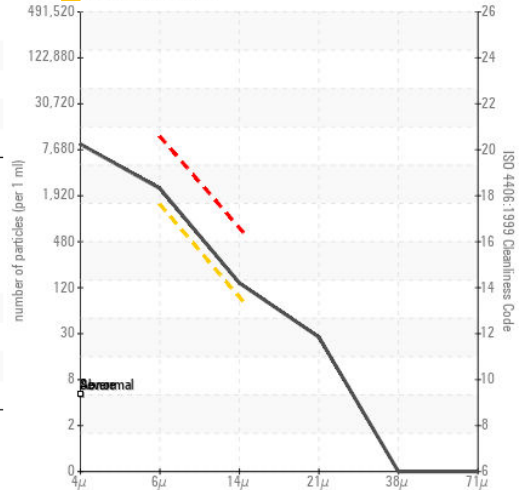
Non-ferrous Metals



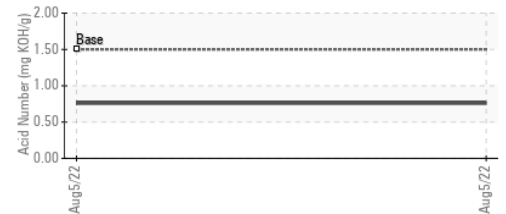
▲ Viscosity @ 40°C



▲ Particle Count



Acid Number



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
 Sample No. : KCP44948 Received : 19 Sep 2022
 Lab Number : 05645548 Diagnosed : 22 Sep 2022
 Unique Number : 10140087 Diagnostician : Jonathan Hester
 Test Package : IND 2 (Additional Tests: KF, PrtCount)

DART CONTAINER
 110 PITNEY RD
 LANCASTER, PA
 USA 17602
 Contact:

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: