KAESER COMPRESSORS®
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PROBLEM SUMMARY

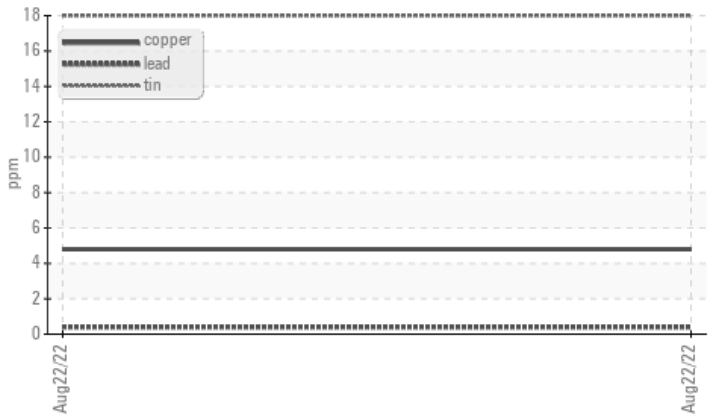
Sample Rating Trend

WEAR

Machine Id
KAESER DSD150T 3450379 - RENTAL (S/N 1004)
Component
Compressor
Fluid
KAESER SIGMA (OEM) S-460 (--- GAL)

COMPONENT CONDITION SUMMARY

▲ Non-ferrous Metals



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**	---	---
Tin	ppm	ASTM D5185m	>10	▲ **18**	---	---

Customer Id: KAEMEM
Sample No.: KCP50535
Lab Number: 05638593
Test Package: IND 2

To manage this report scan the QR code

To discuss the diagnosis or test data:
Angela Borella +1 800-237-1369
angela.borella@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

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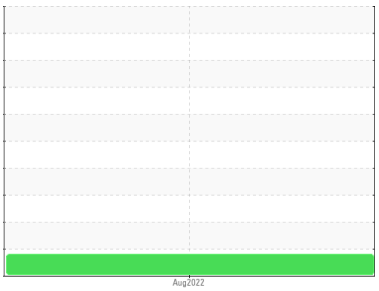
OIL ANALYSIS REPORT

Sample Rating Trend



WEAR

Machine Id
KAESER DSD150T 3450379 - RENTAL (S/N 1004)
Component
Compressor
Fluid
KAESER SIGMA (OEM) S-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
The tin level is abnormal. All other component wear rates are normal.

Contamination
The amount and size of particulates present in the system are acceptable.

Fluid Condition
The AN level is acceptable for this fluid. The condition of the oil is acceptable for the time in service.

SAMPLE INFORMATION	method	limit/base	current	history 1	history 2
Sample Number			**KCP50535**	---	---
Sample Date			**22 Aug 2022**	---	---
Machine Age	hrs		**8874**	---	---
Oil Age	hrs		**0**	---	---
Oil Changed			**Changed**	---	---
Sample Status			**ABNORMAL**	---	---

WEAR METALS		method	limit/base	current	history 1	history 2
Iron	ppm	ASTM D5185m	>50	**<1**	---	---
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	**2**	---	---
Lead	ppm	ASTM D5185m	>10	**<1**	---	---
Copper	ppm	ASTM D5185m	>50	**5**	---	---
Tin	ppm	ASTM D5185m	>10	▲ **18**	---	---
Vanadium	ppm	ASTM D5185m		**<1**	---	---
Cadmium	ppm	ASTM D5185m		**<1**	---	---

ADDITIVES		method	limit/base	current	history 1	history 2
Boron	ppm	ASTM D5185m		**0**	---	---
Barium	ppm	ASTM D5185m	90	**<1**	---	---
Molybdenum	ppm	ASTM D5185m		**0**	---	---
Manganese	ppm	ASTM D5185m		**1**	---	---
Magnesium	ppm	ASTM D5185m	90	**55**	---	---
Calcium	ppm	ASTM D5185m	2	**0**	---	---
Phosphorus	ppm	ASTM D5185m		**8**	---	---
Zinc	ppm	ASTM D5185m		**36**	---	---
Sulfur	ppm	ASTM D5185m		**18411**	---	---

CONTAMINANTS		method	limit/base	current	history 1	history 2
Silicon	ppm	ASTM D5185m	>25	**1**	---	---
Sodium	ppm	ASTM D5185m		**14**	---	---
Potassium	ppm	ASTM D5185m	>20	**4**	---	---
Water	%	ASTM D6304	>0.05	**0.012**	---	---
ppm Water	ppm	ASTM D6304	>500	**127.9**	---	---

FLUID CLEANLINESS	method	limit/base	current	history 1	history 2
Particles >4µm	ASTM D7647		**366**	---	---
Particles >6µm	ASTM D7647	>1300	**119**	---	---
Particles >14µm	ASTM D7647	>80	**10**	---	---
Particles >21µm	ASTM D7647	>20	**2**	---	---
Particles >38µm	ASTM D7647	>4	**0**	---	---
Particles >71µm	ASTM D7647	>3	**0**	---	---
Oil Cleanliness	ISO 4406 (c)	>--/17/13	**16/14/10**	---	---

FLUID DEGRADATION		method	limit/base	current	history 1	history 2
Acid Number (AN)	mg KOH/g	ASTM D8045	0.4	**0.42**	---	---

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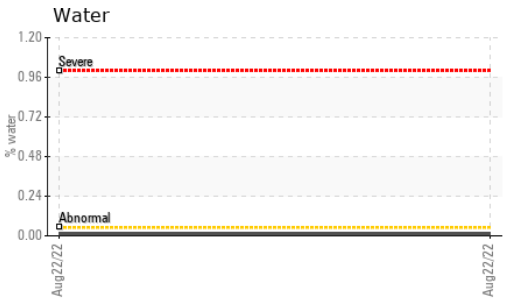
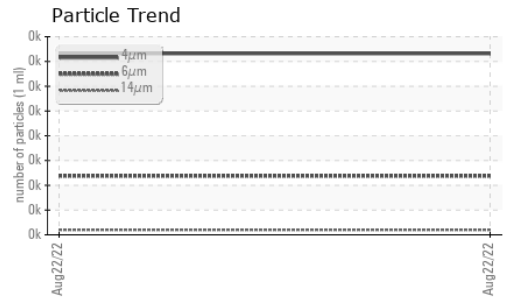
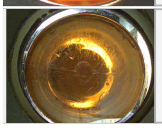
OIL ANALYSIS REPORT



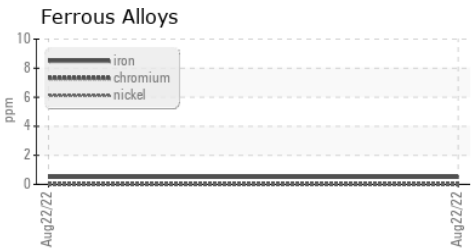


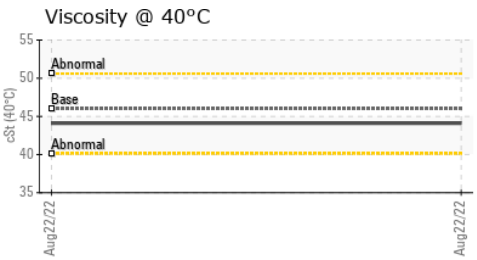
VISUAL		method	limit/base	current	history 1	history 2
White Metal	scalar	*Visual	NONE	**NONE**	---	---
Yellow Metal	scalar	*Visual	NONE	**NONE**	---	---
Precipitate	scalar	*Visual	NONE	**NONE**	---	---
Silt	scalar	*Visual	NONE	**NONE**	---	---
Debris	scalar	*Visual	NONE	**NONE**	---	---
Sand/Dirt	scalar	*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**	---	---

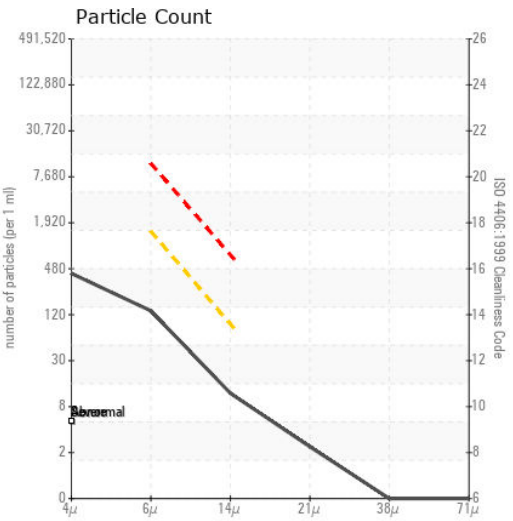
FLUID PROPERTIES		method	limit/base	current	history 1	history 2
Visc @ 40°C	cSt	ASTM D445	46	**44.1**	---	---

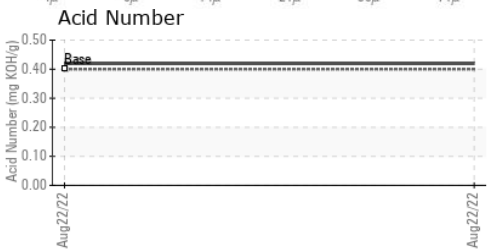
SAMPLE IMAGES	method	limit/base	current	history 1	history 2
Color				*no image*	*no image*
Bottom				*no image*	*no image*

GRAPHS









Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : KCP50535 **Received** : 12 Sep 2022
Lab Number : 05638593 **Diagnosed** : 14 Sep 2022
Unique Number : 10128123 **Diagnostician** : Angela Borella
Test Package : IND 2 (Additional Tests: KF, PrtCount)

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

KAESER COMPRESSORS
4446 MALONE ROAD
MEMPHIS, TN
USA 38118
Contact: SAM COATES
Sam.coates@kaeser.com
T: (901)795-4884
F: (901)795-4885