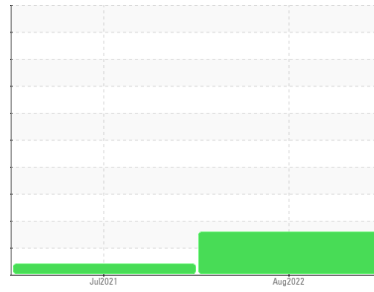


PROBLEM SUMMARY

Sample Rating Trend



ISO



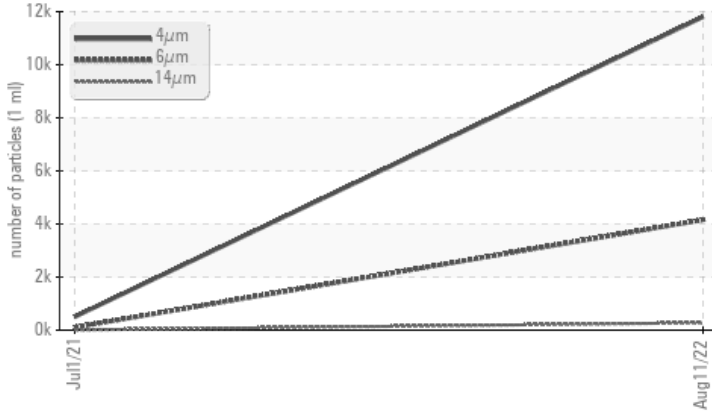
Machine Id
5804533 (S/N 1316)

Component
Compressor

Fluid
KAESER SIGMA (OEM) M-460 (--- GAL)

COMPONENT CONDITION SUMMARY

▲ Particle Trend



RECOMMENDATION

No corrective action is recommended at this time. 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	ASTM D7647	ISO	ABNORMAL	ABNORMAL	---
Particles >6µm	>1300	▲ 4157	105	---	
Particles >14µm	>80	▲ 277	7	---	
Particles >21µm	>20	▲ 35	2	---	
Oil Cleanliness	ISO 4406 (c)	>--/17/13	▲ 21/19/15	14/10	---

Customer Id: GMAOAK
Sample No.: KCP51982
Lab Number: 05632383
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.

HISTORICAL DIAGNOSIS

01 Jul 2021 Diag: Jonathan Hester

VISCOSITY



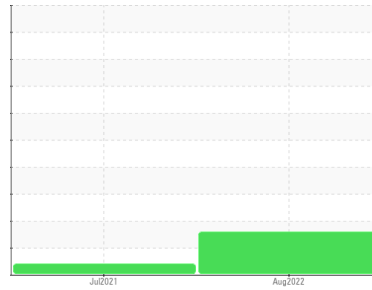
Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the oil. The amount and size of particulates present in the system are acceptable. The oil viscosity is higher than normal. The AN level is acceptable for this fluid.

view report



OIL ANALYSIS REPORT

Sample Rating Trend



ISO



Machine Id
5804533 (S/N 1316)

Component
Compressor

Fluid
KAESER SIGMA (OEM) M-460 (--- GAL)

DIAGNOSIS

▲ Recommendation

No corrective action is recommended at this time. 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 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	history 1	history 2
Sample Number			KCP51982	KCP33693	---
Sample Date			11 Aug 2022	01 Jul 2021	---
Machine Age	hrs		24796	19973	---
Oil Age	hrs		3000	4300	---
Oil Changed			Changed	Changed	---
Sample Status			ABNORMAL	ABNORMAL	---

WEAR METALS

	method	limit/base	current	history 1	history 2
Iron	ppm	ASTM D5185m >50	0	<1	---
Chromium	ppm	ASTM D5185m >10	0	0	---
Nickel	ppm	ASTM D5185m >3	0	<1	---
Titanium	ppm	ASTM D5185m >3	0	0	---
Silver	ppm	ASTM D5185m >2	0	<1	---
Aluminum	ppm	ASTM D5185m >10	1	<1	---
Lead	ppm	ASTM D5185m >10	0	<1	---
Copper	ppm	ASTM D5185m >50	3	5	---
Tin	ppm	ASTM D5185m >10	<1	<1	---
Antimony	ppm	ASTM D5185m	---	<1	---
Vanadium	ppm	ASTM D5185m	0	0	---
Cadmium	ppm	ASTM D5185m	0	<1	---

ADDITIVES

	method	limit/base	current	history 1	history 2
Boron	ppm	ASTM D5185m 0	0	35	---
Barium	ppm	ASTM D5185m 90	22	0	---
Molybdenum	ppm	ASTM D5185m 0	0	0	---
Manganese	ppm	ASTM D5185m	0	0	---
Magnesium	ppm	ASTM D5185m 100	66	26	---
Calcium	ppm	ASTM D5185m 0	<1	0	---
Phosphorus	ppm	ASTM D5185m 0	3	13	---
Zinc	ppm	ASTM D5185m 0	0	15	---
Sulfur	ppm	ASTM D5185m 23500	20779	20027	---

CONTAMINANTS

	method	limit/base	current	history 1	history 2
Silicon	ppm	ASTM D5185m >25	2	10	---
Sodium	ppm	ASTM D5185m	7	6	---
Potassium	ppm	ASTM D5185m >20	2	<1	---
Water	%	ASTM D6304 >0.05	0.027	0.007	---
ppm Water	ppm	ASTM D6304 >500	274.8	71.5	---

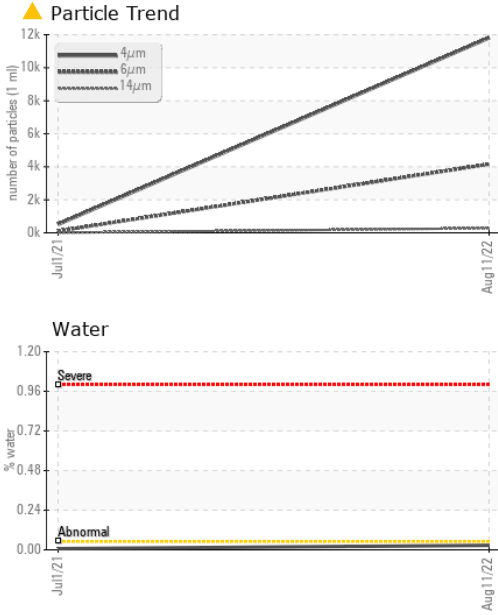
FLUID CLEANLINESS

	method	limit/base	current	history 1	history 2
Particles >4µm	ASTM D7647		11806	503	---
Particles >6µm	ASTM D7647	>1300	▲ 4157	105	---
Particles >14µm	ASTM D7647	>80	▲ 277	7	---
Particles >21µm	ASTM D7647	>20	▲ 35	2	---
Particles >38µm	ASTM D7647	>4	1	0	---
Particles >71µm	ASTM D7647	>3	0	0	---
Oil Cleanliness	ISO 4406 (c)	>--/17/13	▲ 21/19/15	14/10	---

FLUID DEGRADATION

	method	limit/base	current	history 1	history 2
Acid Number (AN)	mg KOH/g	ASTM D8045 1.0	0.44	0.380	---

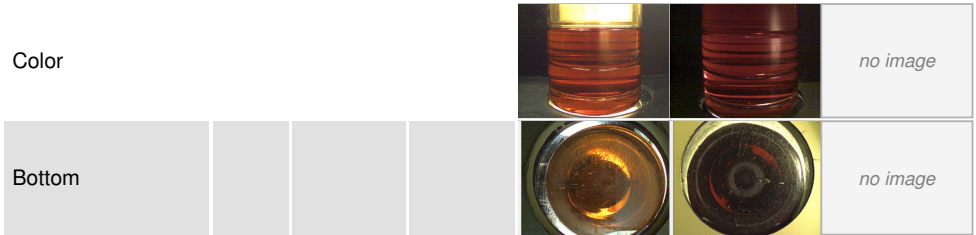
OIL ANALYSIS REPORT



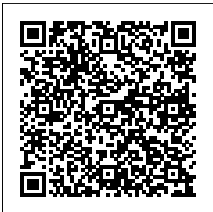
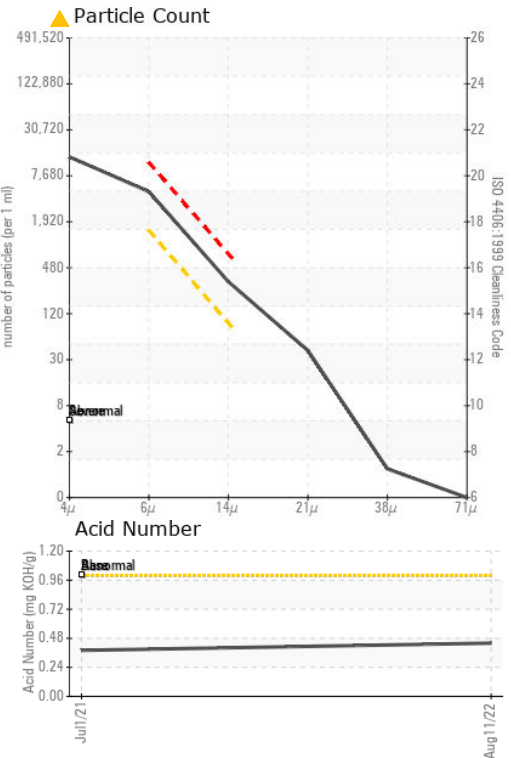
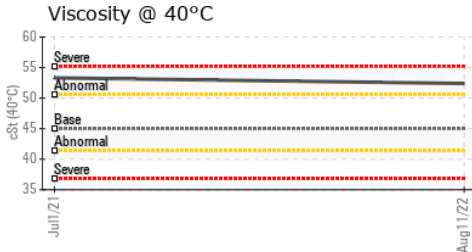
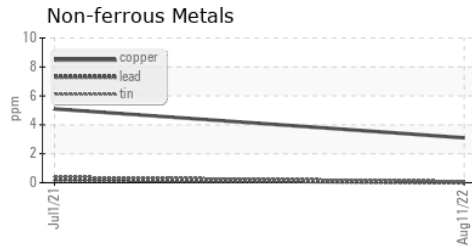
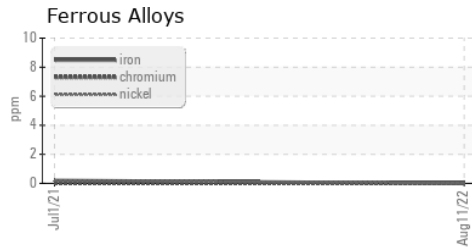
VISUAL	method	limit/base	current	history 1	history 2
White Metal	scalar	*Visual	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	---
Precipitate	scalar	*Visual	NONE	NONE	---
Silt	scalar	*Visual	NONE	NONE	---
Debris	scalar	*Visual	NONE	NONE	---
Sand/Dirt	scalar	*Visual	NONE	NONE	---
Appearance	scalar	*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	45	52.4	▲ 53.32	---

SAMPLE IMAGES	method	limit/base	current	history 1	history 2
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GRAPHS



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : KCP51982 **Received** : 01 Sep 2022
Lab Number : 05632383 **Diagnosed** : 03 Sep 2022
Unique Number : 10116904 **Diagnostician** : Don Baldrige
Test Package : IND 2 (Additional Tests: KF, PrtCount)

GM ASSOCIATES
 9824 KITTY LN
 OAKLAND, CA
 USA 94603
 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: