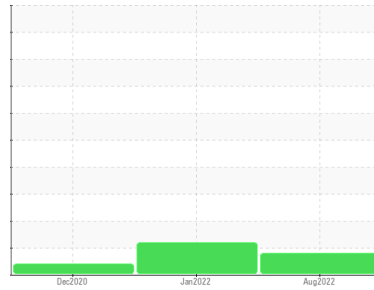


PROBLEM SUMMARY

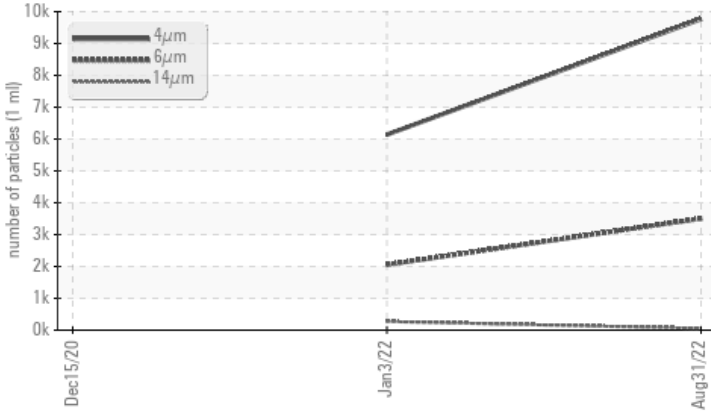
Area
[13142637]
 Machine Id
6563534 (S/N 1225)
 Component
Compressor
 Fluid
KAESER SIGMA (OEM) M-460 (--- GAL)

Sample Rating Trend



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		ABNORMAL	ABNORMAL	ABNORMAL
Particles >6µm	ASTM D7647 >1300	▲ 3505	▲ 2055	---
Oil Cleanliness	ISO 4406 (c) >--/17/13	▲ 20/19/13	▲ 18/15	---

Customer Id: EXASAN
 Sample No.: KCP49322
 Lab Number: 05638106
 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

03 Jan 2022 Diag: Doug Bogart

ISO



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. All component wear rates are normal. There is a high 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](#)



15 Dec 2020 Diag: Jonathan Hester

VIS DEBRIS



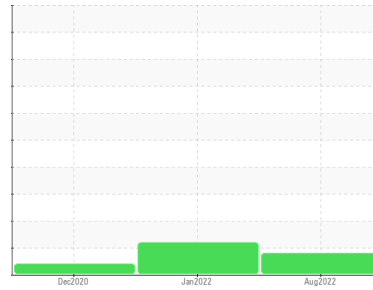
Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor. We were unable to perform a particle count due to a high concentration of particles present in this sample. All component wear rates are normal. Moderate concentration of visible dirt/debris 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



ISO



Area
[13142637]
Machine Id
6563534 (S/N 1225)

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 silt (particulates < 14 microns in size) 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			KCP49322	KCP39623	KCP06604
Sample Date			31 Aug 2022	03 Jan 2022	15 Dec 2020
Machine Age	hrs		11840	9804	6849
Oil Age	hrs		4000	3000	3154
Oil Changed			Changed	Changed	Changed
Sample Status			ABNORMAL	ABNORMAL	ABNORMAL

WEAR METALS

	method	limit/base	current	history 1	history 2
Iron	ppm ASTM D5185m	>50	<1	0	0
Chromium	ppm ASTM D5185m	>10	0	0	0
Nickel	ppm ASTM D5185m	>3	0	0	<1
Titanium	ppm ASTM D5185m	>3	0	0	0
Silver	ppm ASTM D5185m	>2	0	<1	0
Aluminum	ppm ASTM D5185m	>10	0	0	<1
Lead	ppm ASTM D5185m	>10	<1	0	<1
Copper	ppm ASTM D5185m	>50	5	12	11
Tin	ppm ASTM D5185m	>10	<1	0	0
Antimony	ppm ASTM D5185m		---	0	0
Vanadium	ppm ASTM D5185m		0	0	0
Cadmium	ppm ASTM D5185m		0	0	0

ADDITIVES

	method	limit/base	current	history 1	history 2
Boron	ppm ASTM D5185m	0	<1	0	<1
Barium	ppm ASTM D5185m	90	15	0	0
Molybdenum	ppm ASTM D5185m	0	0	0	<1
Manganese	ppm ASTM D5185m		<1	0	0
Magnesium	ppm ASTM D5185m	100	82	17	10
Calcium	ppm ASTM D5185m	0	0	0	0
Phosphorus	ppm ASTM D5185m	0	3	<1	5
Zinc	ppm ASTM D5185m	0	13	18	33
Sulfur	ppm ASTM D5185m	23500	18290	17803	19162

CONTAMINANTS

	method	limit/base	current	history 1	history 2
Silicon	ppm ASTM D5185m	>25	2	7	<1
Sodium	ppm ASTM D5185m		6	3	2
Potassium	ppm ASTM D5185m	>20	<1	0	15
Water	% ASTM D6304	>0.05	0.018	0.014	0.009
ppm Water	ppm ASTM D6304	>500	184.4	145.5	98.9

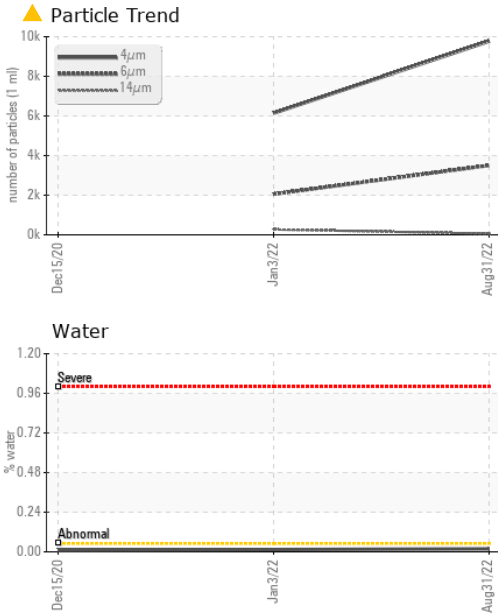
FLUID CLEANLINESS

	method	limit/base	current	history 1	history 2
Particles >4µm	ASTM D7647		9769	6137	---
Particles >6µm	ASTM D7647	>1300	▲ 3505	▲ 2055	---
Particles >14µm	ASTM D7647	>80	54	▲ 271	---
Particles >21µm	ASTM D7647	>20	6	▲ 70	---
Particles >38µm	ASTM D7647	>4	0	4	---
Particles >71µm	ASTM D7647	>3	0	0	---
Oil Cleanliness	ISO 4406 (c)	>--/17/13	▲ 20/19/13	▲ 18/15	---

FLUID DEGRADATION

	method	limit/base	current	history 1	history 2
Acid Number (AN)	mg KOH/g ASTM D8045	1.0	0.51	0.400	0.404

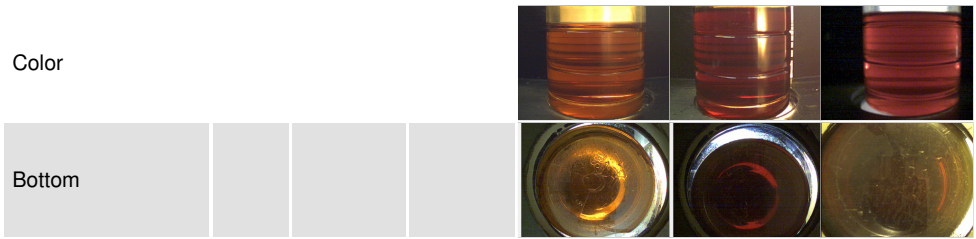
OIL ANALYSIS REPORT



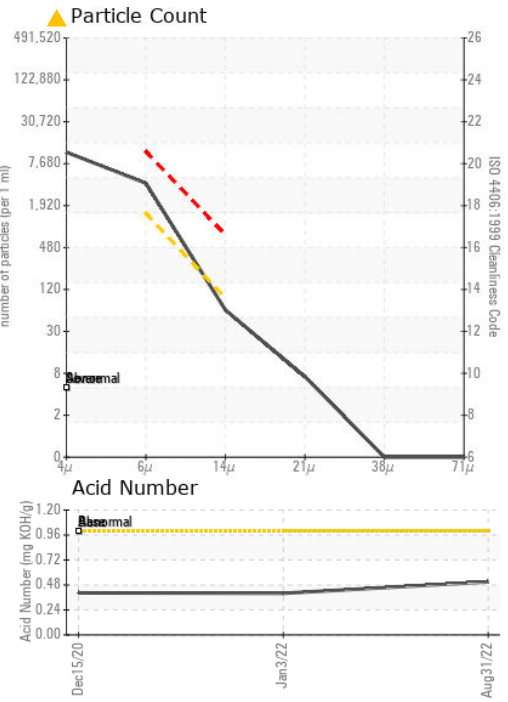
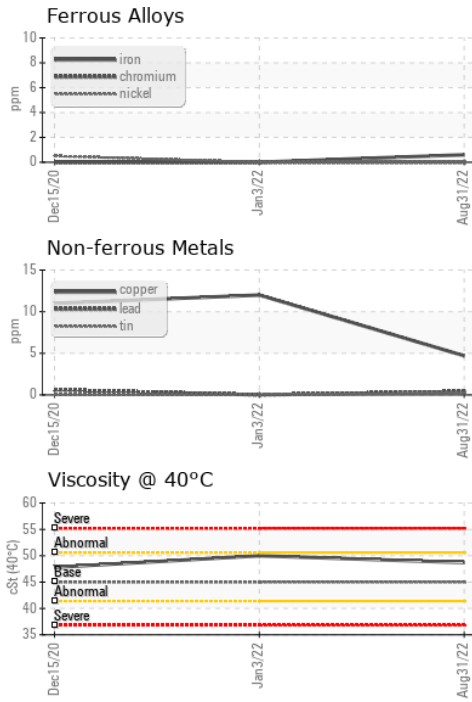
VISUAL	method	limit/base	current	history 1	history 2
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	LIGHT	▲ MODER
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.05	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG

FLUID PROPERTIES	method	limit/base	current	history 1	history 2	
Visc @ 40°C	cSt	ASTM D445	45	48.7	50.0	47.8

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



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : KCP49322 **Received** : 09 Sep 2022
Lab Number : 05638106 **Diagnosed** : 13 Sep 2022
Unique Number : 10127636 **Diagnostician** : Don Baldrige
Test Package : IND 2 (Additional Tests: KF, PrtCount)

EXATRON
 175 LEWIS RD
 SAN JOSE, CA
 USA 95111
 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)