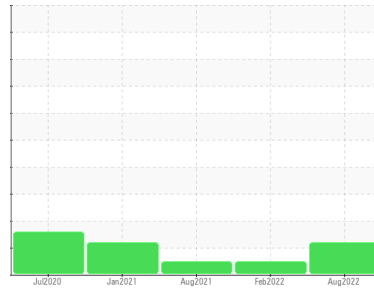


PROBLEM SUMMARY

Sample Rating Trend



ISO

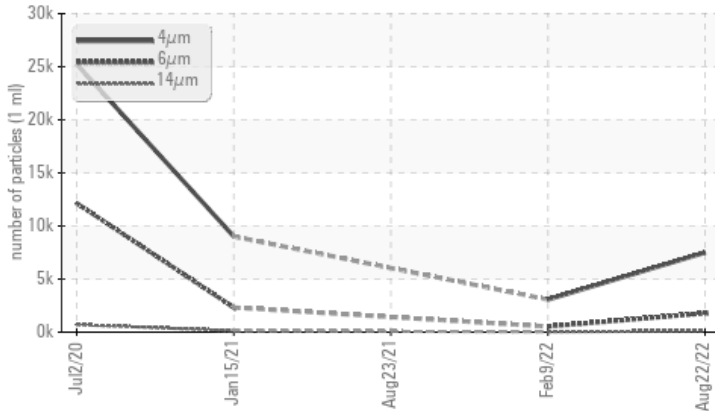


Machine Id
7038629 (S/N 1384)

Component
Compressor
Fluid
KAESER SIGMA (OEM) S-460 (--- GAL)

COMPONENT CONDITION SUMMARY

▲ Particle Trend



RECOMMENDATION

No corrective action is recommended at this time.
Resample at the next service interval to monitor.

PROBLEMATIC TEST RESULTS

Sample Status			ATTENTION	NORMAL	NORMAL
Particles >6µm	ASTM D7647	>1300	▲ 1779	528	---
Particles >14µm	ASTM D7647	>80	▲ 114	25	---
Oil Cleanliness	ISO 4406 (c)	>--/17/13	▲ 20/18/14	16/12	---

Customer Id: TOUODE
Sample No.: KC78883
Lab Number: 05627474
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

There are no recommended actions for this sample.

HISTORICAL DIAGNOSIS

09 Feb 2022 Diag: Angela Borella

NORMAL



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. The amount and size of particulates present in the system are acceptable. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

view report



23 Aug 2021 Diag: Jonathan Hester

NORMAL



Resample at the next service interval to monitor. We were unable to perform a particle count on this sample. All component wear rates are normal. There is no indication of any contamination in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

view report



15 Jan 2021 Diag: Don Baldrige

ISO



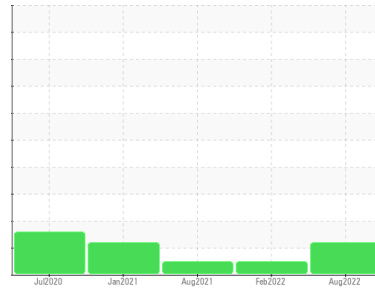
Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor. All component wear rates are normal. There is a moderate amount of particulates present in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

view report



OIL ANALYSIS REPORT

Sample Rating Trend



ISO



Machine Id
7038629 (S/N 1384)
Component
Compressor
Fluid
KAESER SIGMA (OEM) S-460 (--- GAL)

DIAGNOSIS

Recommendation

No corrective action is recommended at this time. 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 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		KC78883	KC90114	KC86197
Sample Date		22 Aug 2022	09 Feb 2022	23 Aug 2021
Machine Age	hrs	4842	3571	2352
Oil Age	hrs	1271	0	1094
Oil Changed		Not Changed	Changed	Not Changed
Sample Status		ATTENTION	NORMAL	NORMAL

WEAR METALS

method	limit/base	current	history 1	history 2
Iron	ppm ASTM D5185m >50	<1	<1	0
Chromium	ppm ASTM D5185m >10	<1	0	0
Nickel	ppm ASTM D5185m >3	0	0	0
Titanium	ppm ASTM D5185m >3	0	0	0
Silver	ppm ASTM D5185m >2	0	0	0
Aluminum	ppm ASTM D5185m >10	2	<1	0
Lead	ppm ASTM D5185m >10	<1	0	<1
Copper	ppm ASTM D5185m >50	7	6	8
Tin	ppm ASTM D5185m >10	<1	0	0
Antimony	ppm ASTM D5185m	---	0	0
Vanadium	ppm ASTM D5185m	<1	0	0
Cadmium	ppm ASTM D5185m	<1	0	0

ADDITIVES

method	limit/base	current	history 1	history 2
Boron	ppm ASTM D5185m	0	<1	<1
Barium	ppm ASTM D5185m 90	0	0	4
Molybdenum	ppm ASTM D5185m	0	0	<1
Manganese	ppm ASTM D5185m	<1	0	<1
Magnesium	ppm ASTM D5185m 90	30	39	42
Calcium	ppm ASTM D5185m 2	0	0	2
Phosphorus	ppm ASTM D5185m	3	7	3
Zinc	ppm ASTM D5185m	2	0	0

CONTAMINANTS

method	limit/base	current	history 1	history 2
Silicon	ppm ASTM D5185m >25	<1	<1	<1
Sodium	ppm ASTM D5185m	7	6	14
Potassium	ppm ASTM D5185m >20	1	0	5
Water	% ASTM D6304 >0.05	0.017	0.014	0.022
ppm Water	ppm ASTM D6304 >500	179.6	141.1	228.1

FLUID CLEANLINESS

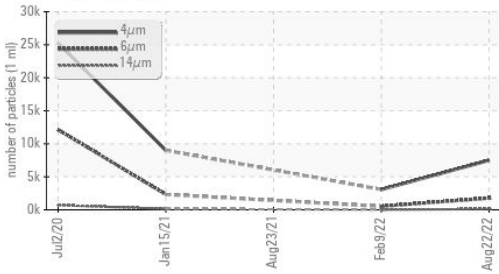
method	limit/base	current	history 1	history 2
Particles >4µm	ASTM D7647	7502	3066	---
Particles >6µm	ASTM D7647 >1300	▲ 1779	528	---
Particles >14µm	ASTM D7647 >80	▲ 114	25	---
Particles >21µm	ASTM D7647 >20	18	7	---
Particles >38µm	ASTM D7647 >4	1	0	---
Particles >71µm	ASTM D7647 >3	0	0	---
Oil Cleanliness	ISO 4406 (c) >--/17/13	▲ 20/18/14	16/12	---

FLUID DEGRADATION

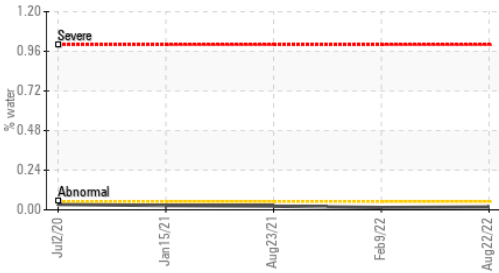
method	limit/base	current	history 1	history 2
Acid Number (AN)	mg KOH/g ASTM D8045 0.4	0.43	0.41	0.399

OIL ANALYSIS REPORT

▲ Particle Trend



Water



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

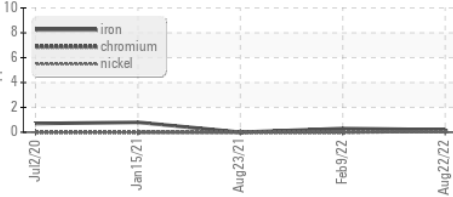
FLUID PROPERTIES	method	limit/base	current	history 1	history 2
Visc @ 40°C	cSt	ASTM D445 46	44.3	44.1	44.2

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

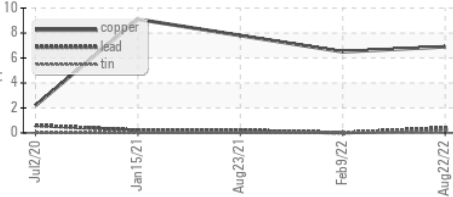


GRAPHS

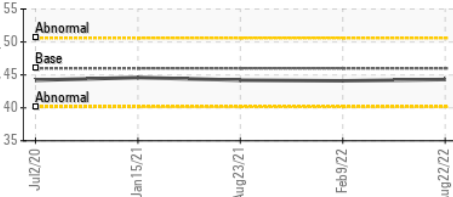
Ferrous Alloys



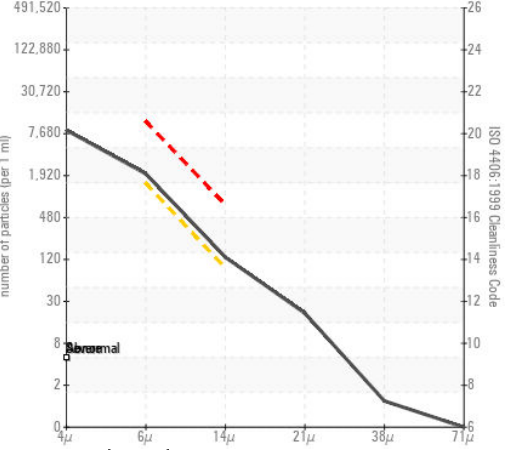
Non-ferrous Metals



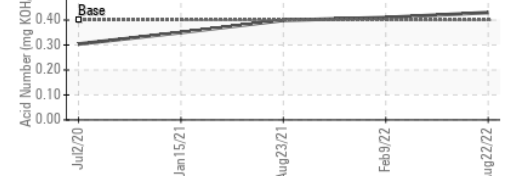
Viscosity @ 40°C



▲ Particle Count



Acid Number



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : KC78883 **Received** : 25 Aug 2022
Lab Number : 05627474 **Diagnosed** : 28 Aug 2022
Unique Number : 10111995 **Diagnostician** : Don Baldrige
Test Package : IND 2

TOUCHPOINT HEALTHCARE GLOBAL
 2200 TOUCHPOINT DR
 ODESSA, FL
 USA 33556
 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: