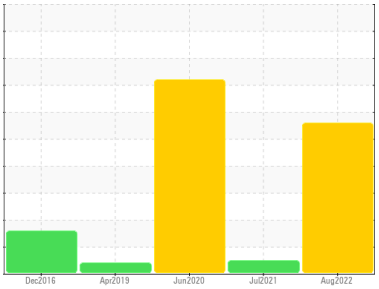
KAESER COMPRESSORS®
Built for a lifetime.

PROBLEM SUMMARY

Sample Rating Trend

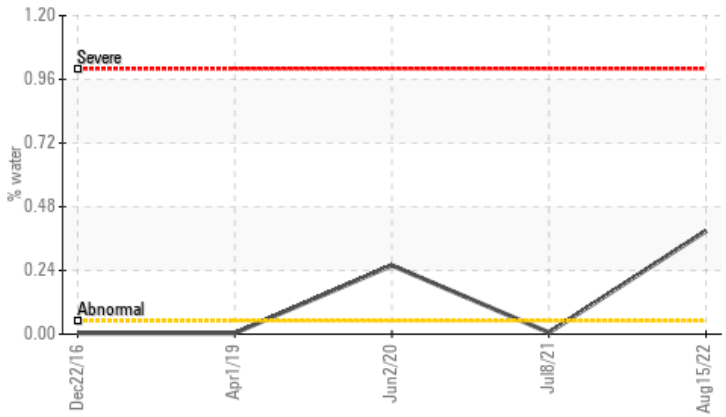


WATER

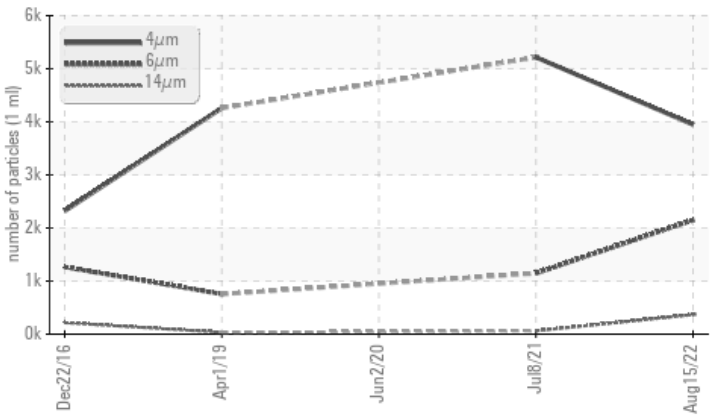
Machine Id
KAESER DSD 150 4594612 (S/N 1060)
Component
Compressor
Fluid
KAESER SIGMA (OEM) M-460 (--- GAL)

COMPONENT CONDITION SUMMARY

Water



Particle Trend



RECOMMENDATION

Oil and filter change at the time of sampling has been noted. We recommend an early resample in 500 hours to monitor this condition.

PROBLEMATIC TEST RESULTS

Sample Status				**ABNORMAL**	NORMAL	SEVERE
Water	%	ASTM D6304	>0.05	▲ **0.389**	0.006	▲ 0.259
ppm Water	ppm	ASTM D6304	>500	▲ **3890**	66.2	▲ 2590
Particles >6µm		ASTM D7647	>1300	▲ **2150**	1147	---
Particles >14µm		ASTM D7647	>80	▲ **366**	62	---
Particles >21µm		ASTM D7647	>20	▲ **123**	17	---
Particles >38µm		ASTM D7647	>4	▲ **19**	2	---
Particles >71µm		ASTM D7647	>3	▲ **2**	0	---
Oil Cleanliness		ISO 4406 (c)	>--/17/13	▲ **19/18/16**	17/13	---
Free Water	scalar	*Visual		▲ **1.0**	NEG	⬢ 5.0

Customer Id: OLDROC
Sample No.: KCP48392
Lab Number: 05623857
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

08 Jul 2021 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. There is no indication of any contamination in the oil. The AN level is acceptable for this fluid.

view report

02 Jun 2020 Diag: Don Baldridge

WATER

Oil and filter change at the time of sampling has been noted. We recommend an early resample in 500 hours to monitor this condition. There is too much water present in this sample to perform a particle count.All component wear rates are normal. There is a light concentration of water present in the oil. Excessive free water present. The AN level is acceptable for this fluid.

view report

01 Apr 2019 Diag: Jonathan Hester

VISCOSITY

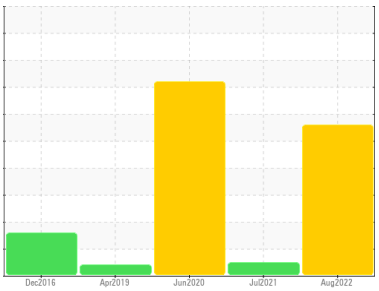
Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.All component wear rates are normal. There is no indication of any contamination in the oil. The amount and size of particulates present in the system are acceptable. The oil viscosity is higher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

view report

KAESER COMPRESSORS
Built for a lifetime.

OIL ANALYSIS REPORT

Sample Rating Trend



WATER

Machine Id
KAESER DSD 150 4594612 (S/N 1060)
Component
Compressor
Fluid
KAESER SIGMA (OEM) M-460 (--- GAL)

DIAGNOSIS

Recommendation
Oil and filter change at the time of sampling has been noted. We recommend an early resample in 500 hours to monitor this condition.

Wear
All component wear rates are normal.

Contamination
There is a high amount of particulates present in the oil. Free water present. There is a light concentration of water 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				**KCP48392**	KCP42304	KCP25319
Sample Date				**15 Aug 2022**	08 Jul 2021	02 Jun 2020
Machine Age	hrs			**45970**	42326	34124
Oil Age	hrs			**3000**	5000	0
Oil Changed				**Changed**	Changed	Changed
Sample Status				**ABNORMAL**	NORMAL	SEVERE

WEAR METALS		method	limit/base	current	history 1	history 2
Iron	ppm	ASTM D5185m	>50	**<1**	0	2
Chromium	ppm	ASTM D5185m	>10	**0**	0	0
Nickel	ppm	ASTM D5185m	>3	**<1**	0	0
Titanium	ppm	ASTM D5185m	>3	**0**	0	0
Silver	ppm	ASTM D5185m	>2	**0**	0	<1
Aluminum	ppm	ASTM D5185m	>10	**<1**	0	0
Lead	ppm	ASTM D5185m	>10	**0**	0	0
Copper	ppm	ASTM D5185m	>50	**7**	7	12
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	**0**	13	<1
Barium	ppm	ASTM D5185m	90	**0**	0	<1
Molybdenum	ppm	ASTM D5185m	0	**0**	0	0
Manganese	ppm	ASTM D5185m		**0**	0	0
Magnesium	ppm	ASTM D5185m	100	**0**	1	<1
Calcium	ppm	ASTM D5185m	0	**0**	0	<1
Phosphorus	ppm	ASTM D5185m	0	**5**	3	4
Zinc	ppm	ASTM D5185m	0	**10**	0	0
Sulfur	ppm	ASTM D5185m	23500	**19851**	16963	14388

CONTAMINANTS		method	limit/base	current	history 1	history 2
Silicon	ppm	ASTM D5185m	>25	**1**	1	<1
Sodium	ppm	ASTM D5185m		**<1**	<1	0
Potassium	ppm	ASTM D5185m	>20	**0**	0	<1
Water	%	ASTM D6304	>0.05	▲ **0.389**	0.006	▲ 0.259
ppm Water	ppm	ASTM D6304	>500	▲ **3890**	66.2	▲ 2590

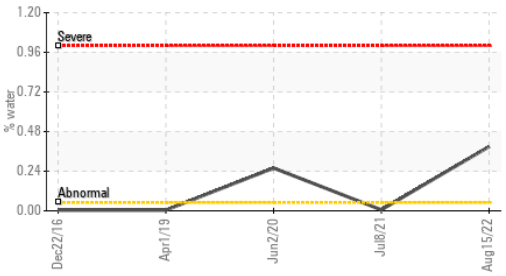
FLUID CLEANLINESS		method	limit/base	current	history 1	history 2
Particles >4µm		ASTM D7647		**3948**	5217	---
Particles >6µm		ASTM D7647	>1300	▲ **2150**	1147	---
Particles >14µm		ASTM D7647	>80	▲ **366**	62	---
Particles >21µm		ASTM D7647	>20	▲ **123**	17	---
Particles >38µm		ASTM D7647	>4	▲ **19**	2	---
Particles >71µm		ASTM D7647	>3	▲ **2**	0	---
Oil Cleanliness		ISO 4406 (c)	>--/17/13	▲ **19/18/16**	17/13	---

FLUID DEGRADATION		method	limit/base	current	history 1	history 2
Acid Number (AN)	mg KOH/g	ASTM D8045	1.0	**0.43**	0.523	0.441

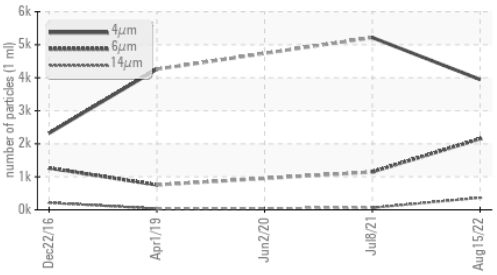
KAESER COMPRESSORS®
Built for a lifetime.

OIL ANALYSIS REPORT

Water

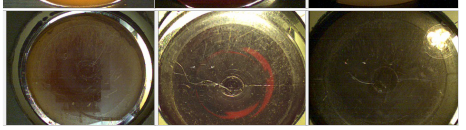


Particle Trend



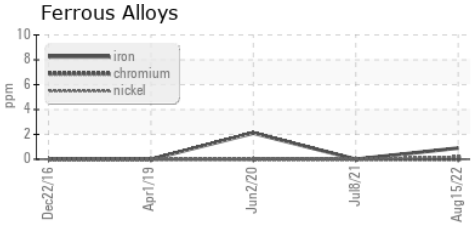
VISUAL		method	limit/base	current	history 1	history 2
White Metal	scalar	*Visual	NONE	**NONE**	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	**NONE**	NONE	NONE
Precipitate	scalar	*Visual	NONE	**NONE**	NONE	NONE
Silt	scalar	*Visual	NONE	**NONE**	NONE	NONE
Debris	scalar	*Visual	NONE	**LIGHT**	NONE	LIGHT
Sand/Dirt	scalar	*Visual	NONE	**NONE**	NONE	NONE
Appearance	scalar	*Visual	NORML	**NORML**	NORML	▲ LAYRD
Odor	scalar	*Visual	NORML	**NORML**	NORML	NORML
Emulsified Water	scalar	*Visual	>0.05	**0.2%**	NEG	NEG
Free Water	scalar	*Visual		▲ **1.0**	NEG	⬢ 5.0

FLUID PROPERTIES		method	limit/base	current	history 1	history 2
Visc @ 40°C	cSt	ASTM D445	45	**49.17**	50.8	49.9

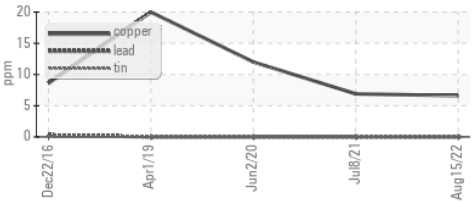
SAMPLE IMAGES	method	limit/base	current	history 1	history 2
Color					
Bottom					

GRAPHS

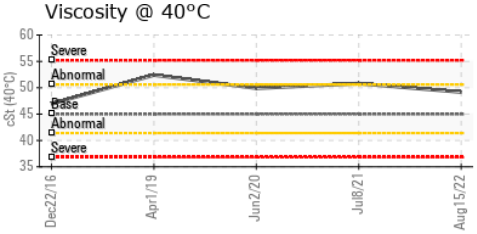
Ferrous Alloys



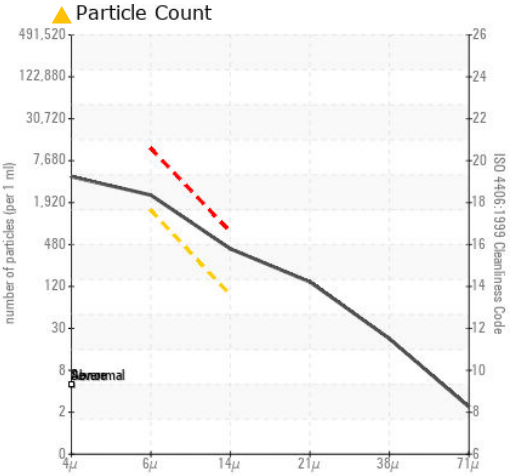
Non-ferrous Metals



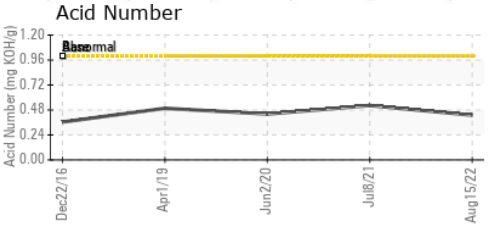
Viscosity @ 40°C



Particle Count



Acid Number



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : KCP48392 **Received** : 22 Aug 2022
Lab Number : 05623857 **Diagnosed** : 26 Aug 2022
Unique Number : 10103364 **Diagnostician** : Jonathan Hester
Test Package : IND 2 (Additional Tests: KF, PrtCount)

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)

OLDCASTLE ENVELOPE
1900 MIDLAND RD
ROCK HILL, SC
USA 29730
Contact:
T:
F: