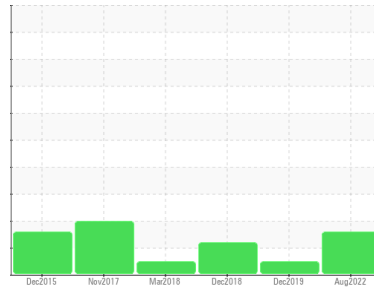


PROBLEM SUMMARY

Sample Rating Trend



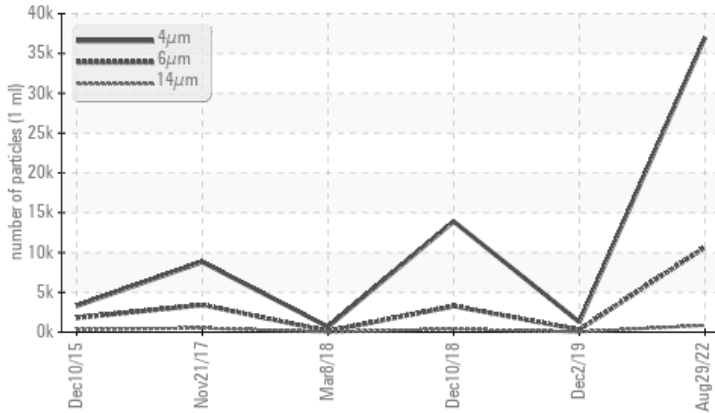
ISO



Machine Id
KAESER DSD 150 5360543 (S/N 1175)
Component
Compressor
Fluid
KAESER SIGMA (OEM) M-460 (--- GAL)

COMPONENT CONDITION SUMMARY

▲ Particle Trend



RECOMMENDATION

The filter change at the time of sampling has been noted. Resample at the next service interval to monitor.

PROBLEMATIC TEST RESULTS

Sample Status			ABNORMAL	NORMAL	ABNORMAL
Particles >6µm	ASTM D7647	>1300	▲ 10657	305	▲ 3267
Particles >14µm	ASTM D7647	>80	▲ 856	26	▲ 391
Particles >21µm	ASTM D7647	>20	▲ 137	11	▲ 143
Oil Cleanliness	ISO 4406 (c)	>--/17/13	▲ 22/21/17	15/12	▲ 19/16

Customer Id: MCLPEN
Sample No.: KCP37376
Lab Number: 05648944
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

There are no recommended actions for this sample.

HISTORICAL DIAGNOSIS

02 Dec 2019 Diag: Doug Bogart

NORMAL



Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the component. The amount and size of particulates present in the system is acceptable. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

view report



10 Dec 2018 Diag: Angela Borella

ISO



The 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



08 Mar 2018 Diag: Angela Borella

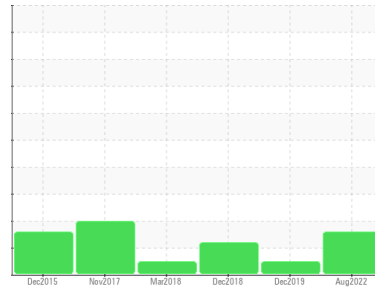
NORMAL



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. 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





Machine Id
KAESER DSD 150 5360543 (S/N 1175)

Component
Compressor

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

DIAGNOSIS

▲ Recommendation

The 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			KCP37376	KC74255	KC76202
Sample Date			29 Aug 2022	02 Dec 2019	10 Dec 2018
Machine Age	hrs		31034	26132	19614
Oil Age	hrs		2800	6482	0
Oil Changed			Not Changed	Changed	Not Changed
Sample Status			ABNORMAL	NORMAL	ABNORMAL

WEAR METALS

	method	limit/base	current	history 1	history 2
Iron	ppm ASTM D5185m	>50	<1	<1	2
Chromium	ppm ASTM D5185m	>10	0	0	<1
Nickel	ppm ASTM D5185m	>3	0	<1	0
Titanium	ppm ASTM D5185m	>3	0	0	<1
Silver	ppm ASTM D5185m	>2	0	2	0
Aluminum	ppm ASTM D5185m	>10	0	<1	<1
Lead	ppm ASTM D5185m	>10	0	0	<1
Copper	ppm ASTM D5185m	>50	23	12	16
Tin	ppm ASTM D5185m	>10	0	0	<1
Antimony	ppm ASTM D5185m		---	0	0
Vanadium	ppm ASTM D5185m		0	0	<1
Cadmium	ppm ASTM D5185m		0	0	<1

ADDITIVES

	method	limit/base	current	history 1	history 2
Boron	ppm ASTM D5185m	0	0	<1	<1
Barium	ppm ASTM D5185m	90	0	<1	0
Molybdenum	ppm ASTM D5185m	0	0	0	<1
Manganese	ppm ASTM D5185m		<1	<1	<1
Magnesium	ppm ASTM D5185m	100	19	6	18
Calcium	ppm ASTM D5185m	0	0	<1	1
Phosphorus	ppm ASTM D5185m	0	11	6	2
Zinc	ppm ASTM D5185m	0	26	2	33
Sulfur	ppm ASTM D5185m	23500	20309	14057	18076

CONTAMINANTS

	method	limit/base	current	history 1	history 2
Silicon	ppm ASTM D5185m	>25	<1	<1	0
Sodium	ppm ASTM D5185m		12	2	12
Potassium	ppm ASTM D5185m	>20	5	2	12
Water	% ASTM D6304	>0.05	0.022	0.009	0.009
ppm Water	ppm ASTM D6304	>500	221.5	91.1	90

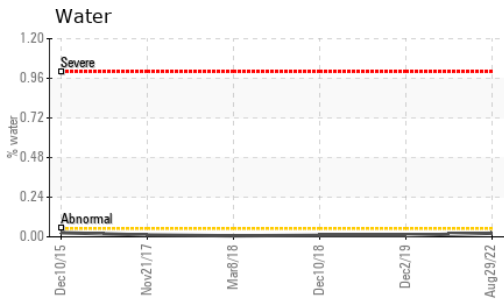
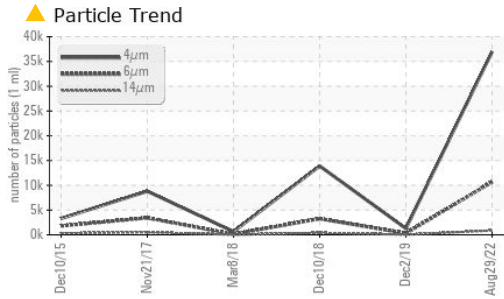
FLUID CLEANLINESS

	method	limit/base	current	history 1	history 2
Particles >4µm	ASTM D7647		36989	1271	13895
Particles >6µm	ASTM D7647	>1300	▲ 10657	305	▲ 3267
Particles >14µm	ASTM D7647	>80	▲ 856	26	▲ 391
Particles >21µm	ASTM D7647	>20	▲ 137	11	▲ 143
Particles >38µm	ASTM D7647	>4	3	3	6
Particles >71µm	ASTM D7647	>3	0	1	0
Oil Cleanliness	ISO 4406 (c)	>--/17/13	▲ 22/21/17	15/12	▲ 19/16

FLUID DEGRADATION

	method	limit/base	current	history 1	history 2
Acid Number (AN)	mg KOH/g ASTM D8045	1.0	0.41	0.354	0.413

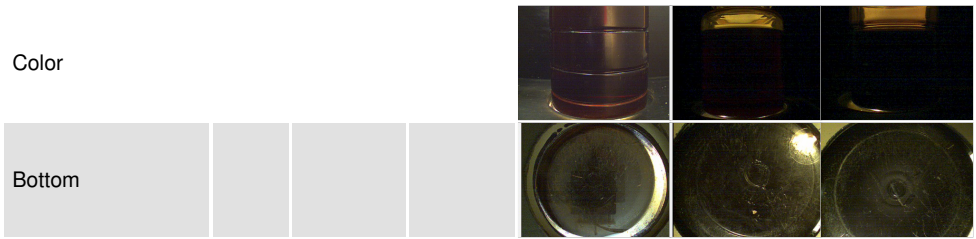
OIL ANALYSIS REPORT



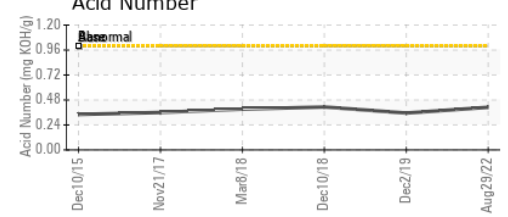
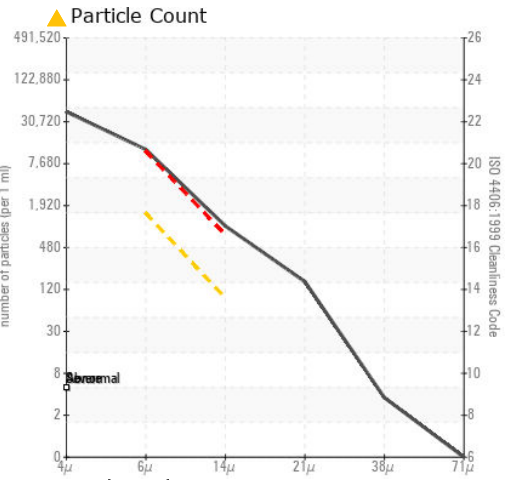
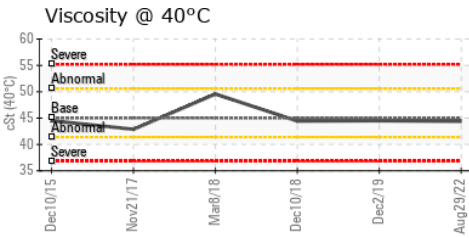
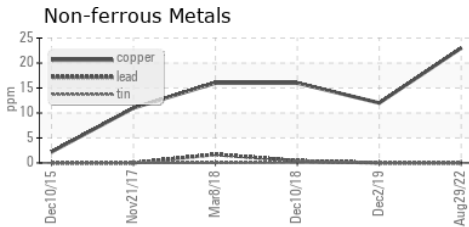
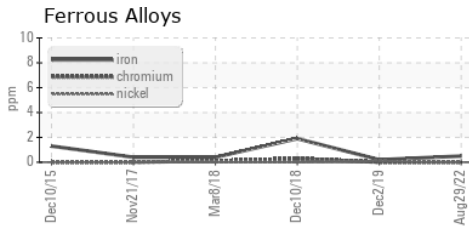
VISUAL	method	limit/base	current	history 1	history 2
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance	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	44.5	44.44

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. : KCP37376 **Received** : 22 Sep 2022
Lab Number : 05648944 **Diagnosed** : 26 Sep 2022
Unique Number : 10143483 **Diagnostician** : Jonathan Hester
Test Package : IND 2 (Additional Tests: KF, PrtCount)

MCLEAN PACKAGING CORP
 1000 THOMAS BUSCH HWY
 PENNSAUKEN, NJ
 USA 08110
 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)