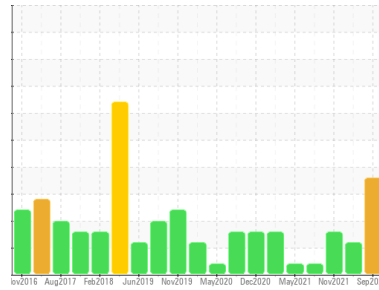


PROBLEM SUMMARY

Sample Rating Trend



WATER



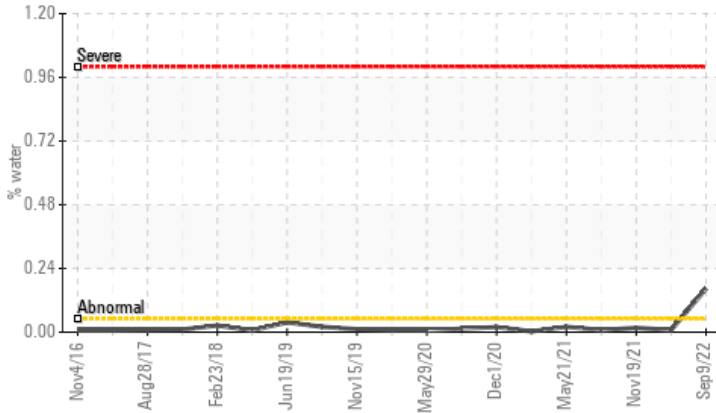
Machine Id
KAESER SK 19 2289903 (S/N 1099)

Component
Compressor

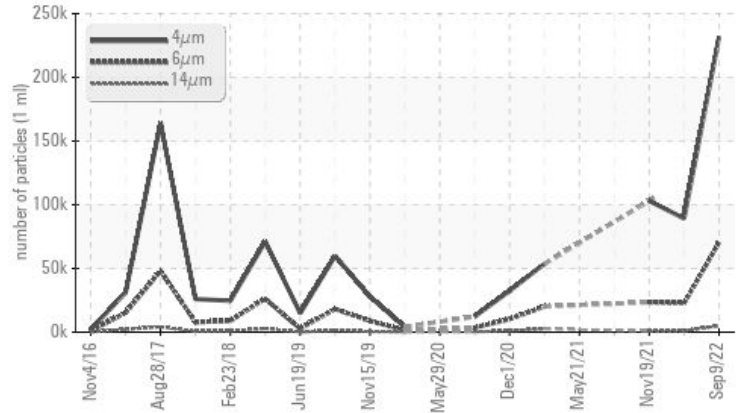
Fluid
KAESER SIGMA (OEM) M-460 (--- GAL)

COMPONENT CONDITION SUMMARY

▲ Water



▲ Particle Trend



RECOMMENDATION

The filter change at the time of sampling has been noted. We advise that you stop the unit and follow the water drain-off procedure for this component. We recommend an early resample in 500 hours to monitor this condition.

PROBLEMATIC TEST RESULTS

Sample Status				ABNORMAL	ABNORMAL	ABNORMAL
Water	%	ASTM D6304	>0.05	▲ 0.164	0.008	0.016
ppm Water	ppm	ASTM D6304	>500	▲ 1642.6	88.2	163.5
Particles >6µm		ASTM D7647	>1300	▲ 70634	▲ 22872	▲ 23432
Particles >14µm		ASTM D7647	>80	▲ 4980	▲ 949	▲ 649
Particles >21µm		ASTM D7647	>20	▲ 1278	▲ 174	▲ 112
Particles >38µm		ASTM D7647	>4	▲ 20	2	▲ 11
Oil Cleanliness		ISO 4406 (c)	>--/17/13	▲ 25/23/19	▲ 22/17	▲ 22/17

Customer Id: JOHSHEKC
Sample No.: KCP30977
Lab Number: 05639089
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

17 Feb 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



19 Nov 2021 Diag: Angela Borella

ISO



No corrective action is recommended at this time. 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



20 Aug 2021 Diag: Don Baldrige

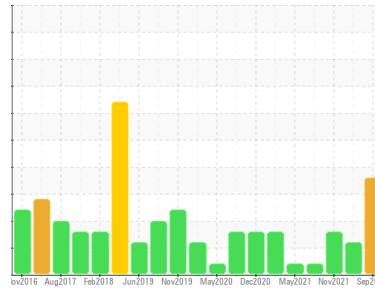
VIS DEBRIS



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. 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





Machine Id
KAESER SK 19 2289903 (S/N 1099)

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

DIAGNOSIS

Recommendation

The filter change at the time of sampling has been noted. We advise that you stop the unit and follow the water drain-off procedure for this component. 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. There is a light concentration of water present in the oil.

Fluid Condition

The AN level is acceptable for this fluid.

SAMPLE INFORMATION

	method	limit/base	current	history 1	history 2
Sample Number			KCP30977	KCP41173	KCP39562
Sample Date			09 Sep 2022	17 Feb 2022	19 Nov 2021
Machine Age	hrs		9048	8817	6902
Oil Age	hrs		3000	3000	3000
Oil Changed			Not Changed	Changed	Not Changed
Sample Status			ABNORMAL	ABNORMAL	ABNORMAL

WEAR METALS

	method	limit/base	current	history 1	history 2
Iron	ppm	ASTM D5185m >50	2	4	4
Chromium	ppm	ASTM D5185m >10	0	0	0
Nickel	ppm	ASTM D5185m >3	0	<1	<1
Titanium	ppm	ASTM D5185m >3	0	0	0
Silver	ppm	ASTM D5185m >2	0	<1	<1
Aluminum	ppm	ASTM D5185m >10	<1	1	0
Lead	ppm	ASTM D5185m >10	0	0	<1
Copper	ppm	ASTM D5185m >50	13	9	11
Tin	ppm	ASTM D5185m >10	0	<1	0
Antimony	ppm	ASTM D5185m	---	---	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	0	1
Barium	ppm	ASTM D5185m 90	1	0	0
Molybdenum	ppm	ASTM D5185m 0	0	0	0
Manganese	ppm	ASTM D5185m	<1	<1	<1
Magnesium	ppm	ASTM D5185m 100	11	17	0
Calcium	ppm	ASTM D5185m 0	13	13	8
Phosphorus	ppm	ASTM D5185m 0	3	7	8
Zinc	ppm	ASTM D5185m 0	31	39	10
Sulfur	ppm	ASTM D5185m 23500	17652	17411	14519

CONTAMINANTS

	method	limit/base	current	history 1	history 2
Silicon	ppm	ASTM D5185m >25	<1	<1	2
Sodium	ppm	ASTM D5185m	5	20	0
Potassium	ppm	ASTM D5185m >20	<1	5	<1
Water	%	ASTM D6304 >0.05	▲ 0.164	0.008	0.016
ppm Water	ppm	ASTM D6304 >500	▲ 1642.6	88.2	163.5

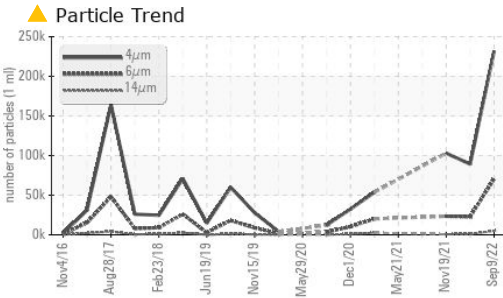
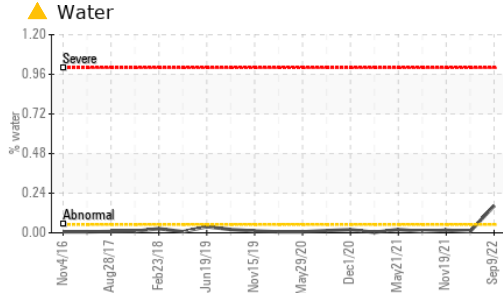
FLUID CLEANLINESS

	method	limit/base	current	history 1	history 2
Particles >4µm	ASTM D7647		231746	89207	103029
Particles >6µm	ASTM D7647	>1300	▲ 70634	▲ 22872	▲ 23432
Particles >14µm	ASTM D7647	>80	▲ 4980	▲ 949	▲ 649
Particles >21µm	ASTM D7647	>20	▲ 1278	▲ 174	▲ 112
Particles >38µm	ASTM D7647	>4	▲ 20	2	▲ 11
Particles >71µm	ASTM D7647	>3	1	0	1
Oil Cleanliness	ISO 4406 (c)	>--/17/13	▲ 25/23/19	▲ 22/17	▲ 22/17

FLUID DEGRADATION

	method	limit/base	current	history 1	history 2
Acid Number (AN)	mg KOH/g	ASTM D8045 1.0	0.42	0.44	0.595

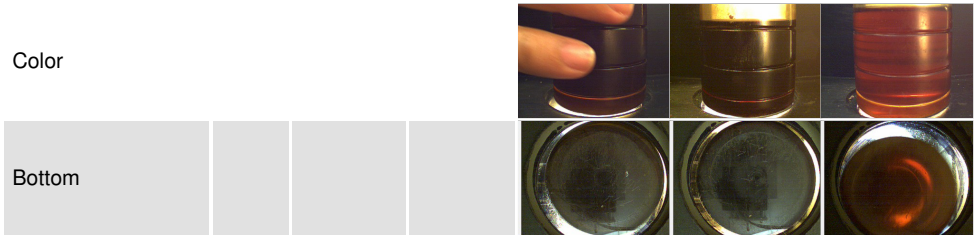
OIL ANALYSIS REPORT



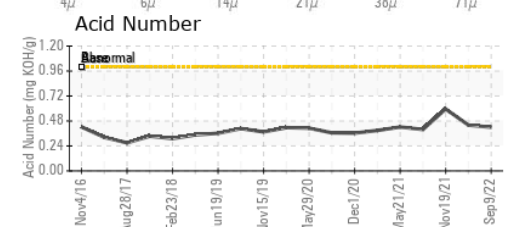
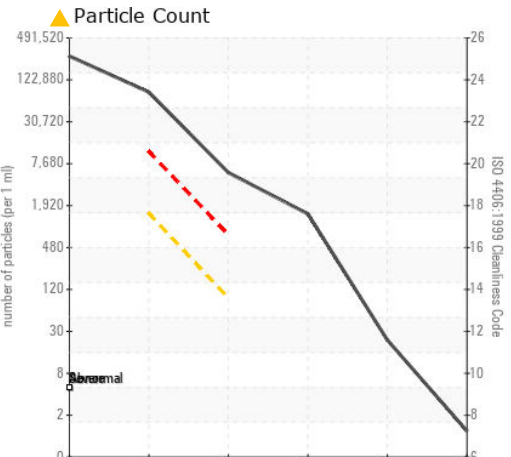
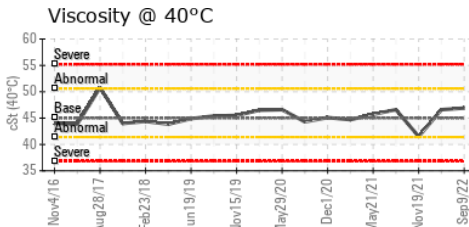
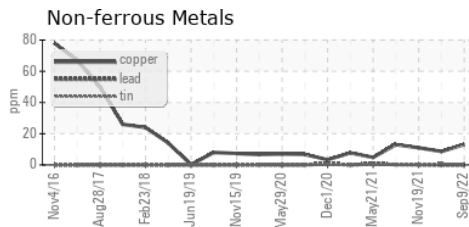
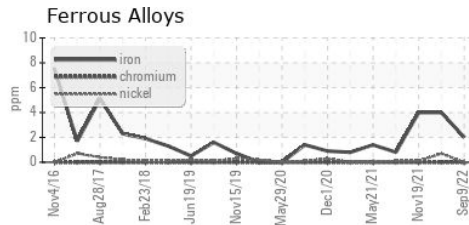
VISUAL	method	limit/base	current	history 1	history 2
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	VLITE	LIGHT
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance	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	46.6	41.5

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. : KCP30977 **Received** : 12 Sep 2022
Lab Number : 05639089 **Diagnosed** : 14 Sep 2022
Unique Number : 10128619 **Diagnostician** : Don Baldrige

JOHNSONVILLE SAUSAGE LLC
 N7078 JOHNSONVILLE WAY
 SHEBOYGAN FALLS, WI
 USA 53085
 Contact:

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: