

PROBLEM SUMMARY

Sample Rating Trend

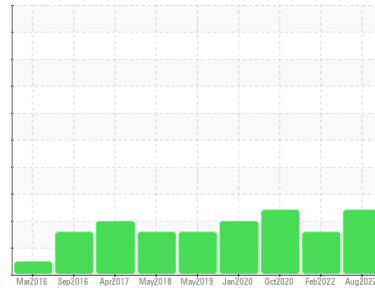
VISCOSITY



Machine Id
KAESER SX 6 2668277 (S/N 3020)

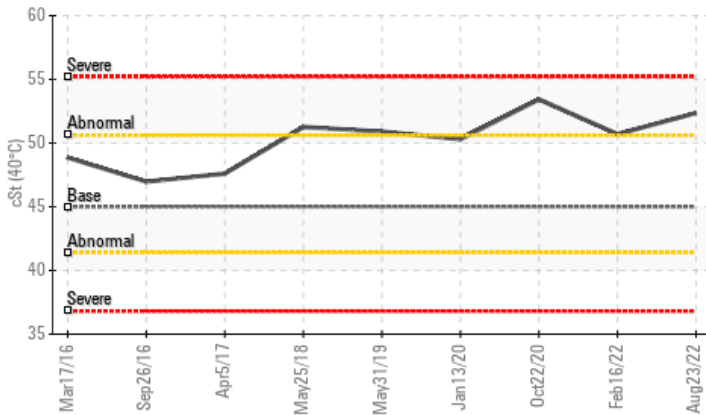
Component
Compressor

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

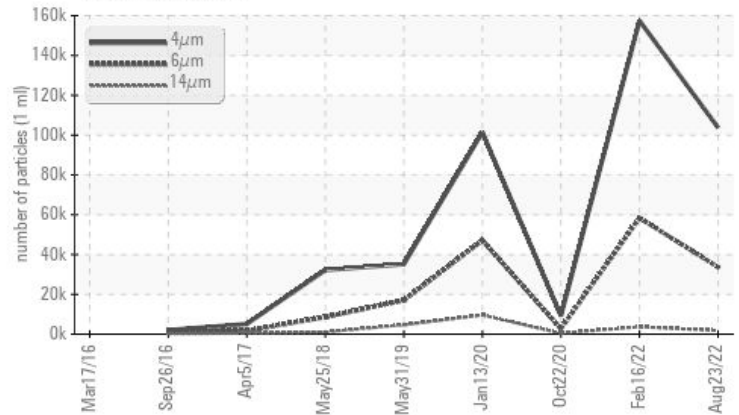


COMPONENT CONDITION SUMMARY

▲ Viscosity @ 40°C



▲ 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	ABNORMAL	ABNORMAL
Particles >6µm	ASTM D7647	>1300	▲ 33647	▲ 58389	▲ 2746
Particles >14µm	ASTM D7647	>80	▲ 1815	▲ 3659	▲ 413
Particles >21µm	ASTM D7647	>20	▲ 224	▲ 1018	▲ 178
Particles >38µm	ASTM D7647	>4	▲ 12	▲ 23	▲ 16
Oil Cleanliness	ISO 4406 (c)	>--/17/13	▲ 24/22/18	▲ 23/19	▲ 19/16
Visc @ 40°C	cSt	ASTM D445 45	▲ 52.36	50.7	▲ 53.43

Customer Id: OLDLIT
Sample No.: KCP48157
Lab Number: 05635071
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

16 Feb 2022 Diag: Jonathan Hester

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



22 Oct 2020 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 a high amount of particulates present in the oil. The oil viscosity is higher than normal. The AN level is acceptable for this fluid.

view report



13 Jan 2020 Diag: Jonathan Hester

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.

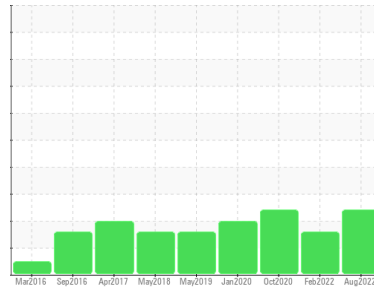
view report



Machine Id
KAESER SX 6 2668277 (S/N 3020)

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 oil viscosity is higher than normal. The AN level is acceptable for this fluid.

SAMPLE INFORMATION

	method	limit/base	current	history 1	history 2
Sample Number			KCP48157	KCP35324	KCP29303
Sample Date			23 Aug 2022	16 Feb 2022	22 Oct 2020
Machine Age	hrs		64049	59603	50866
Oil Age	hrs		4446	8717	11300
Oil Changed			Not Chngd	Changed	Changed
Sample Status			ABNORMAL	ABNORMAL	ABNORMAL

WEAR METALS

	method	limit/base	current	history 1	history 2
Iron	ppm	ASTM D5185m >50	1	3	<1
Chromium	ppm	ASTM D5185m >10	0	0	0
Nickel	ppm	ASTM D5185m >3	0	<1	0
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	6	11	37
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	21	41	<1
Molybdenum	ppm	ASTM D5185m 0	0	0	0
Manganese	ppm	ASTM D5185m	0	0	0
Magnesium	ppm	ASTM D5185m 100	28	50	<1
Calcium	ppm	ASTM D5185m 0	0	2	1
Phosphorus	ppm	ASTM D5185m 0	<1	7	3
Zinc	ppm	ASTM D5185m 0	2	0	0
Sulfur	ppm	ASTM D5185m 23500	15905	15393	10170

CONTAMINANTS

	method	limit/base	current	history 1	history 2
Silicon	ppm	ASTM D5185m >25	0	<1	<1
Sodium	ppm	ASTM D5185m	9	2	0
Potassium	ppm	ASTM D5185m >20	0	0	<1
Water	%	ASTM D6304 >0.05	0.032	0.021	0.007
ppm Water	ppm	ASTM D6304 >500	327.8	216.6	76.5

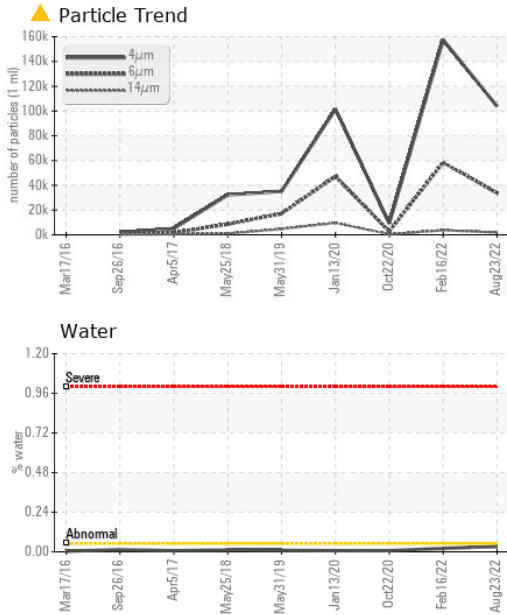
FLUID CLEANLINESS

	method	limit/base	current	history 1	history 2
Particles >4µm	ASTM D7647		103797	157486	9229
Particles >6µm	ASTM D7647	>1300	▲ 33647	▲ 58389	▲ 2746
Particles >14µm	ASTM D7647	>80	▲ 1815	▲ 3659	▲ 413
Particles >21µm	ASTM D7647	>20	▲ 224	▲ 1018	▲ 178
Particles >38µm	ASTM D7647	>4	▲ 12	▲ 23	▲ 16
Particles >71µm	ASTM D7647	>3	0	0	▲ 2
Oil Cleanliness	ISO 4406 (c)	>--/17/13	▲ 24/22/18	▲ 23/19	▲ 19/16

FLUID DEGRADATION

	method	limit/base	current	history 1	history 2
Acid Number (AN)	mg KOH/g	ASTM D8045 1.0	0.52	0.45	0.463

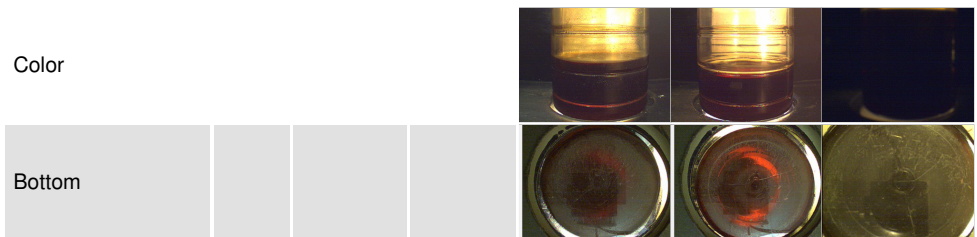
OIL ANALYSIS REPORT



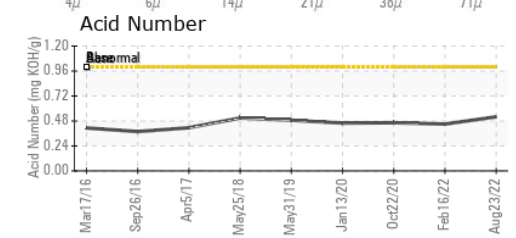
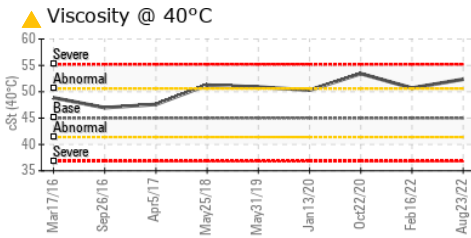
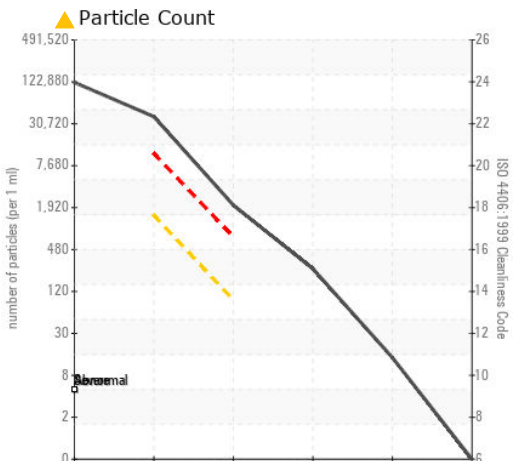
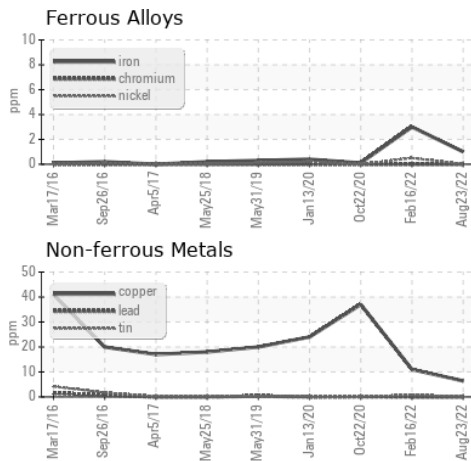
VISUAL	method	limit/base	current	history 1	history 2
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	LIGHT	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance	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	52.36	50.7

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. : KCP48157 **Received** : 06 Sep 2022
Lab Number : 05635071 **Diagnosed** : 09 Sep 2022
Unique Number : 10124601 **Diagnostician** : Jonathan Hester
Test Package : IND 2 (Additional Tests: KF, PrtCount)

OLD DOMINION
 2500 WEST POINT PKWY
 LITHIA SPRINGS, GA
 USA 30122
 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)