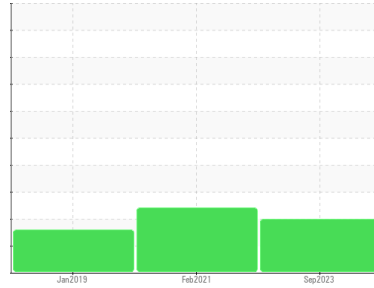


PROBLEM SUMMARY

Sample Rating Trend



VISCOSITY



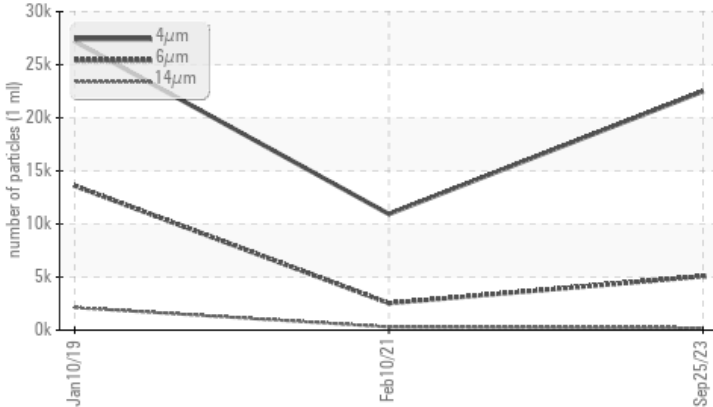
Machine Id
KAESER SM 10T 5918873 (S/N 1433)

Component
Compressor

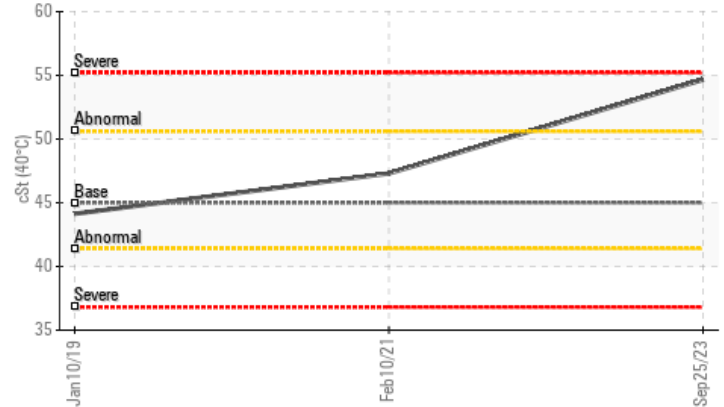
Fluid
KAESER SIGMA (OEM) M-460 (--- GAL)

COMPONENT CONDITION SUMMARY

▲ Particle Trend



▲ Viscosity @ 40°C



RECOMMENDATION

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.

PROBLEMATIC TEST RESULTS

Sample Status	ASTM D7647	>	ABNORMAL	ABNORMAL	ABNORMAL	
Particles >6µm	ASTM D7647	>1300	▲ 5072	▲ 2534	▲ 13601	
Particles >14µm	ASTM D7647	>80	▲ 207	▲ 299	▲ 2123	
Particles >21µm	ASTM D7647	>20	▲ 37	▲ 91	▲ 537	
Oil Cleanliness	ISO 4406 (c)	>--/17/13	▲ 22/20/15	▲ 19/15	▲ 21/18	
Visc @ 40°C	cSt	ASTM D445	45	▲ 54.66	47.3	44.13

Customer Id: WHIHARWI
Sample No.: KCPA000804
Lab Number: 05967094
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

10 Feb 2021 Diag: Doug Bogart

ADDITIVES



Oil and filter change at the time of sampling has been noted. No corrective action is recommended at this time. 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. Additive levels indicate the addition of a different brand, or type of oil. Confirm oil type. The AN level is acceptable for this fluid.

view report



10 Jan 2019 Diag: Jonathan Hester

ISO



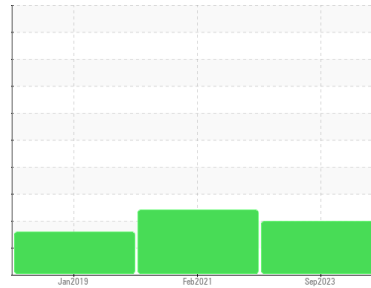
Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor. All component wear rates are normal. There is a high amount of particulates present in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

view report



OIL ANALYSIS REPORT

Sample Rating Trend



VISCOSITY



Machine Id
KAESER SM 10T 5918873 (S/N 1433)

Component

Compressor

Fluid

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

DIAGNOSIS

▲ **Recommendation**

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.

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	history1	history2
Sample Number	Client Info		KCPA000804	KCP34090	KCP00803
Sample Date	Client Info		25 Sep 2023	10 Feb 2021	10 Jan 2019
Machine Age	hrs	Client Info	36998	19643	8503
Oil Age	hrs	Client Info	0	3000	8503
Oil Changed	Client Info		N/A	Changed	Changed
Sample Status			ABNORMAL	ABNORMAL	ABNORMAL

WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >50	<1	1	<1
Chromium	ppm	ASTM D5185m >10	0	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	1	2	<1
Lead	ppm	ASTM D5185m >10	0	<1	0
Copper	ppm	ASTM D5185m >50	25	<1	11
Tin	ppm	ASTM D5185m >10	<1	<1	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	history1	history2
Boron	ppm	ASTM D5185m 0	0	<1	0
Barium	ppm	ASTM D5185m 90	0	0	0
Molybdenum	ppm	ASTM D5185m 0	0	0	<1
Manganese	ppm	ASTM D5185m	0	<1	<1
Magnesium	ppm	ASTM D5185m 100	12	<1	36
Calcium	ppm	ASTM D5185m 0	0	0	0
Phosphorus	ppm	ASTM D5185m 0	4	▲ 140	2
Zinc	ppm	ASTM D5185m 0	30	28	3
Sulfur	ppm	ASTM D5185m 23500	24923	▲ 157	16026

CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >25	2	0	<1
Sodium	ppm	ASTM D5185m	1	0	11
Potassium	ppm	ASTM D5185m >20	<1	1	2
Water	%	ASTM D6304 >0.05	0.005	0.014	0.016
ppm Water	ppm	ASTM D6304 >500	56.9	140.4	160

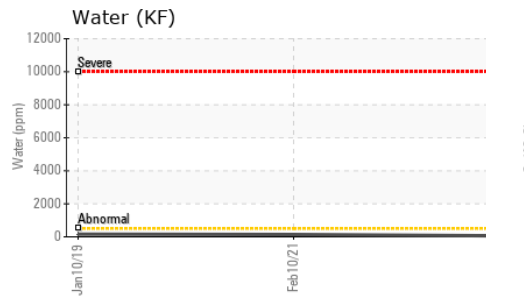
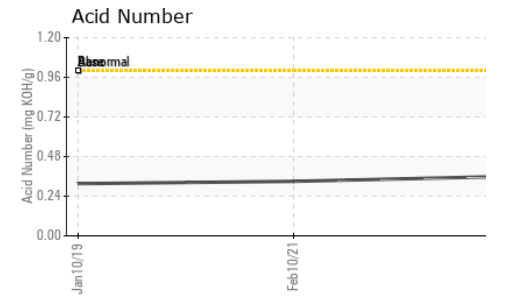
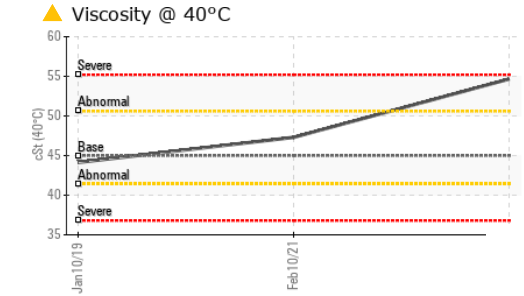
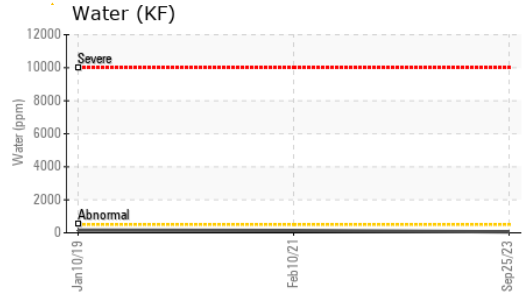
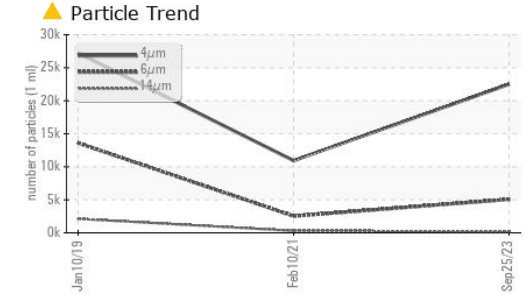
FLUID CLEANLINESS

	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647		22501	10934	27206
Particles >6µm	ASTM D7647 >1300		▲ 5072	▲ 2534	▲ 13601
Particles >14µm	ASTM D7647 >80		▲ 207	▲ 299	▲ 2123
Particles >21µm	ASTM D7647 >20		▲ 37	▲ 91	▲ 537
Particles >38µm	ASTM D7647 >4		1	▲ 5	▲ 13
Particles >71µm	ASTM D7647 >3		0	0	0
Oil Cleanliness	ISO 4406 (c) >--/17/13		▲ 22/20/15	▲ 19/15	▲ 21/18

FLUID DEGRADATION

	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045 1.0	0.36	0.330	0.316

OIL ANALYSIS REPORT

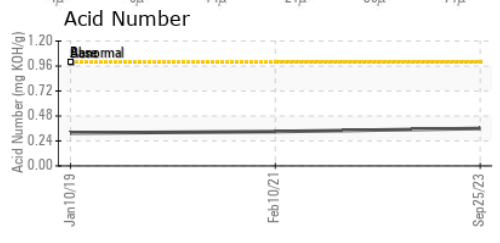
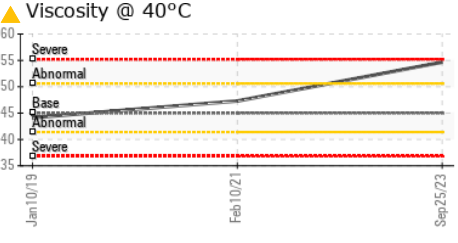
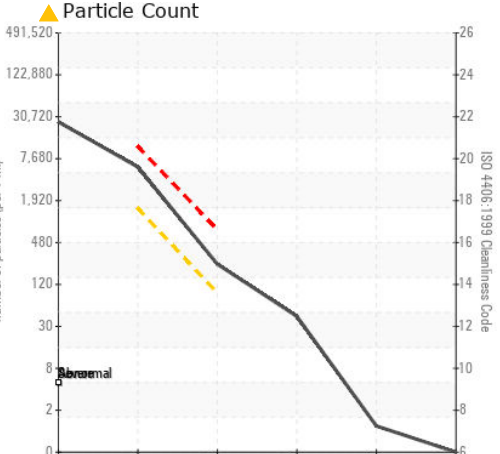
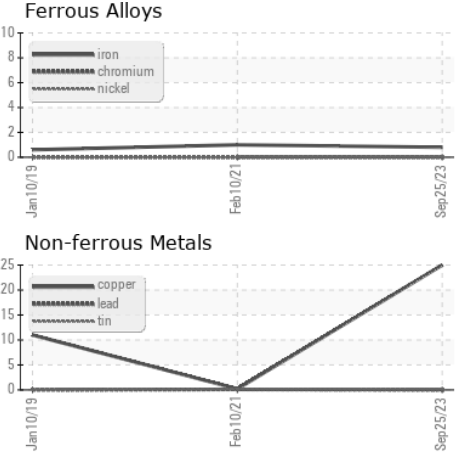


PARAMETER	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance	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

PARAMETER	method	limit/base	current	history1	history2
FLUID PROPERTIES					
Visc @ 40°C	cSt	ASTM D445 45	▲ 54.66	47.3	44.13

PARAMETER	method	limit/base	current	history1	history2
SAMPLE IMAGES					
Color					
Bottom					

GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : KCPA000804
Lab Number : 05967094
Unique Number : 10673645
Test Package : IND 2 (Additional Tests: KF, PrtCount)

WHITE AVIATION
 465 CARDINAL LN
 HARTLAND, WI
 US 53029
 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)