

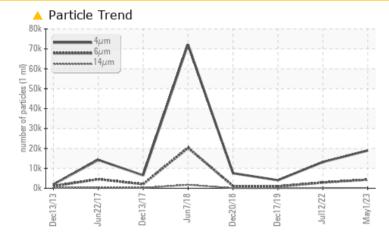
PROBLEM SUMMARY

KAESER SM 10 4403628 (S/N 1232)

Compressor

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

COMPONENT CONDITION SUMMARY



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.

Sample Rating Trend ISO

PROBLEMATIC TEST RESULTS							
Sample Status			ABNORMAL	ABNORMAL	NORMAL		
Particles >6µm	ASTM D7647	>1300	<u> </u>	A 2885	950		
Particles >14µm	ASTM D7647 :	>80	🔺 184	🔺 127	51		
Particles >21µm	ASTM D7647	>20	<u> </u>	<u> </u>	13		
Oil Cleanliness	ISO 4406 (c)	>/17/13	<u> </u>	🔺 21/19/14	17/13		

Customer Id: PENWIX Sample No.: KCPA000306 Lab Number: 05933669 Test Package: IND 2



To manage this report scan the QR code

To discuss the diagnosis or test data: Doug Bogart +1 (800)237-1369 x4016 <u>dougb@wearcheckusa.com</u>

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

12 Jul 2022 Diag: Don Baldridge

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.

17 Dec 2019 Diag: Don Baldridge

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. The condition of the oil is suitable for further service.

20 Dec 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

Report Id: PENWIX [WUSCAR] 05933669 (Generated: 08/25/2023 11:37:49) Rev: 1



OIL ANALYSIS REPORT

KAESER SM 10 4403628 (S/N 1232)

Compressor Fluid

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

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

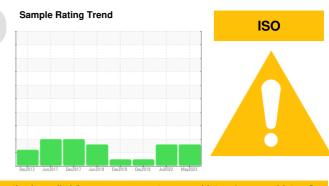
All component wear rates are normal.

Contamination

There is a high amount of particulates present in the oil.

Fluid Condition

The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.



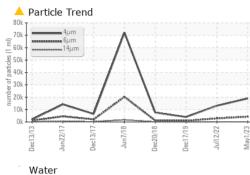
SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		KCPA000306	KCP44616	KCP21490
Sample Date		Client Info		01 May 2023	12 Jul 2022	17 Dec 2019
Machine Age	hrs	Client Info		13246	12561	11067
Oil Age	hrs	Client Info		0	1494	3000
Oil Changed		Client Info		N/A	Changed	Changed
Sample Status				ABNORMAL	ABNORMAL	NORMAL
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>50	<1	0	<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	<1
Aluminum	ppm	ASTM D5185m	>10	0	1	0
Lead	ppm	ASTM D5185m	>10	0	0	0
Copper	ppm	ASTM D5185m		1	5	6
Tin	ppm	ASTM D5185m	>10	0	0	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	history1	history2
Boron	nnm	ASTM D5185m	0	0	0	0
Barium	ppm	ASTM D5185m	90	0	0	0
Molybdenum	ppm	ASTM D5185m	90 0	0	0	0
	ppm	ASTM D5185m	0	0	0	0
Manganese Magnesium	ppm	ASTM D5185m	100	31	10	4
Calcium	ppm	ASTM D5185m		2	0	0
	ppm	ASTM D5185m	0	2	<1	6
Phosphorus Zinc	ppm			2 14	37	o 27
Sulfur	ppm	ASTM D5185m		23699		18647
	ppm	ASTM D5185m	23500		18275	
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	<1	0	2
Sodium	ppm	ASTM D5185m	0.6	12	7	0
Potassium	ppm	ASTM D5185m	>20	2	3	<1
Water	%	ASTM D6304		0.010	0.003	0.005
ppm Water	ppm	ASTM D6304		107.4	34.3	52.6
FLUID CLEANLIN	ESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647		18946	13160	4019
Particles >6µm		ASTM D7647	>1300	A 4306	▲ 2885	950
Particles >14µm		ASTM D7647	>80	▲ 184	▲ 127	51
Particles >21µm		ASTM D7647		<u>40</u>	<u> </u>	13
Particles >38µm		ASTM D7647	>4	0	1	3
Particles >71µm		ASTM D7647		0	0	0
Oil Cleanliness		ISO 4406 (c)	>/17/13	A 21/19/15	21/19/14	17/13
FLUID DEGRADA		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	1.0	0.30	0.26	0.390
·37·50) Rev: 1				(Contact/Location	a. 2.2 - DENIM/I

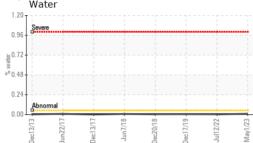
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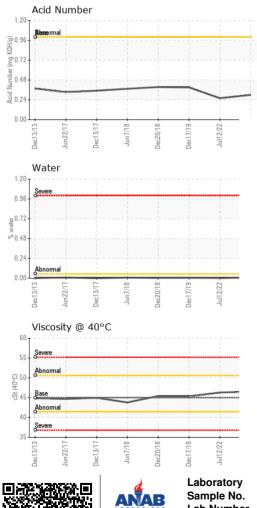
Contact/Location: ? ? - PENWIX



OIL ANALYSIS REPORT

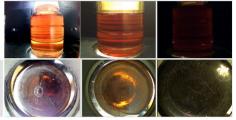




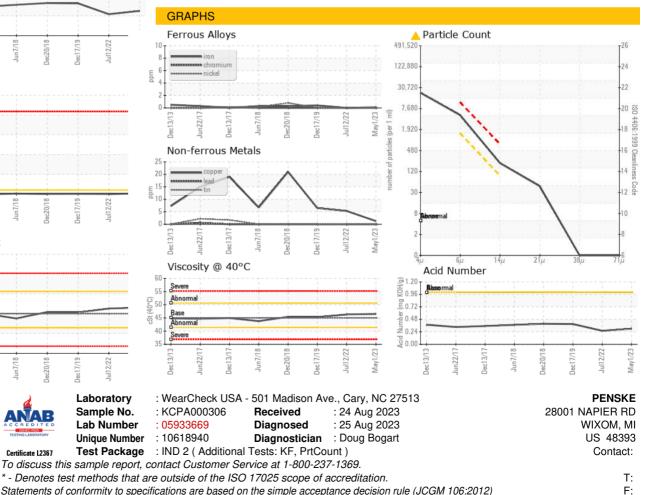


VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.05	NEG	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG
FLUID PROPERT	FIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	45	46.5	46.3	45.3
SAMPLE IMAGE	S	method	limit/base	current	history1	history2

Color



Bottom



Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

Contact/Location: ? ? - PENWIX Page 4 of 4