

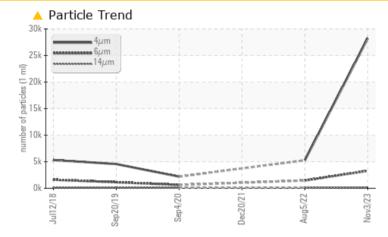
PROBLEM SUMMARY

KAESER ASD40T 5916968 (S/N 1264)

Compressor Fluid

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

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.

PROBLEMATIC TEST RESULTS							
Sample Status			ABNORMAL	ATTENTION	NORMAL		
Particles >6µm	ASTM D7647	>1300	<u> </u>	1 460			
Particles >14µm	ASTM D7647	>80	 170	🔺 115			
Particles >21µm	ASTM D7647	>20	🔺 54	A 21			
Oil Cleanliness	ISO 4406 (c)	>17/13	 1 9/15	<u> </u>			

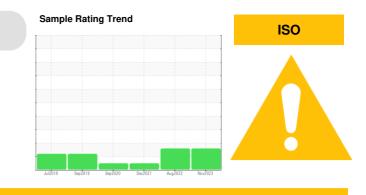
Customer Id: MACWESND Sample No.: KCPA009372 Lab Number: 06006332 Test Package: IND 2



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

05 Aug 2022 Diag: Doug Bogart



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 moderate 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.



20 Dec 2021 Diag: Jonathan Hester



20 Dec 2021 Diag. Jonathan Hest

04 Sep 2020 Diag: Doug Bogart

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 on this sample.All component wear rates are normal. 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.



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. There is no indication of any contamination in the oil. 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.





OIL ANALYSIS REPORT

Machine Id KAESER ASD40T 5916968 (S/N 1264) 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

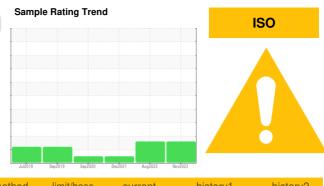
All component wear rates are normal.

Contamination

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

Fluid Condition

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



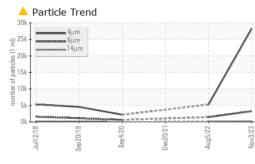
SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		KCPA009372	KCP49823	KCP43843
Sample Date		Client Info		03 Nov 2023	05 Aug 2022	20 Dec 2021
Machine Age	hrs	Client Info		35105	27492	23748
Oil Age	hrs	Client Info		0	3708	7752
Oil Changed		Client Info		N/A	Changed	Changed
Sample Status				ABNORMAL	ATTENTION	NORMAL
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>50	2	2	1
Chromium	ppm	ASTM D5185m		0	0	0
Nickel	ppm	ASTM D5185m	>3	0	0	0
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m		2	<1	<1
Lead	ppm	ASTM D5185m	>10	- <1	<1	0
Copper	ppm	ASTM D5185m		15	13	25
Tin	ppm	ASTM D5185m	>10	<1	<1	0
Antimony	ppm	ASTM D5185m				0
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES	ppm	method	limit/base	-	history1	history2
				current		
Boron	ppm	ASTM D5185m	0	0	<1	<1
Barium	ppm	ASTM D5185m	90	0	0	0
Molybdenum	ppm	ASTM D5185m	0	0	0	0
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m	100	21	16	10
Calcium	ppm	ASTM D5185m		<1	2	0
Phosphorus	ppm	ASTM D5185m	0	1	2	2
Zinc	ppm	ASTM D5185m	0	138	97	82
Sulfur	ppm	ASTM D5185m	23500	17772	18646	17250
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	<1	<1	<1
Sodium	ppm	ASTM D5185m		7	3	2
Potassium	ppm	ASTM D5185m	>20	2	2	0
Water	%	ASTM D6304	>0.05	0.012	0.014	0.006
ppm Water	ppm	ASTM D6304	>500	120.0	144.9	67.1
FLUID CLEANLIN	ESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647		28233	5274	
Particles >6µm		ASTM D7647	>1300	<u> </u>	<u> </u>	
Particles >14µm		ASTM D7647	>80	<u> </u>	1 15	
Particles >21µm		ASTM D7647	>20	<u> </u>	<u> </u>	
Particles >38µm		ASTM D7647	>4	3	1	
Particles >71µm		ASTM D7647	>3	0	0	
Oil Cleanliness		ISO 4406 (c)	>17/13	 19/15	▲ 18/14	
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	1.0	0.39	0.44	0.430

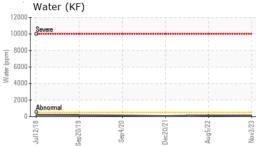
Acid Number (AN) Report Id: MACWESND [WUSCAR] 06006332 (Generated: 11/15/2023 17:20:03) Rev: 1

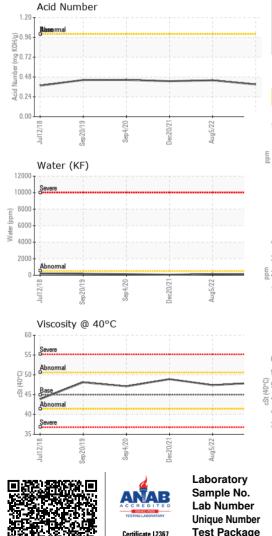
Contact/Location: Service Manager - MACWESND

KAESER COMPRESSORS Built for a lifetime."

OIL ANALYSIS REPORT



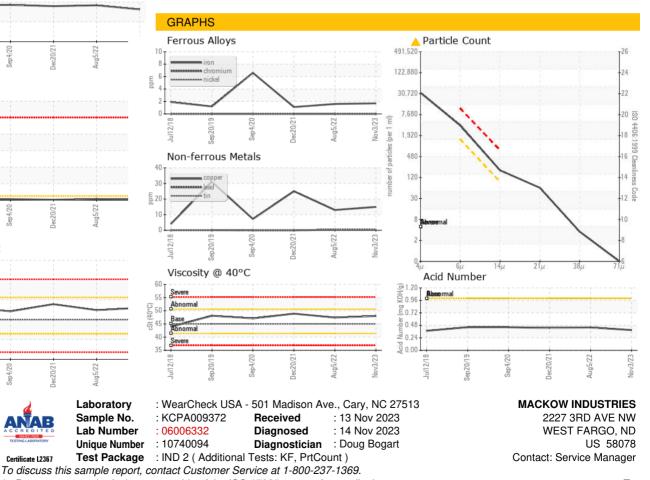




VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	MODER
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	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	IES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	45	48.0	47.4	48.9
SAMPLE IMAGES	S	method	limit/base	current	history1	history2
Color						



Bottom



* - 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)

Contact/Location: Service Manager - MACWESND