

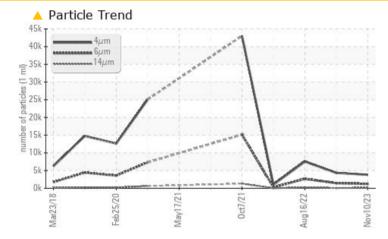
## **PROBLEM SUMMARY**

# KAESER SM 10 5399168 (S/N 1752)

**Compressor** Fluid

## KAESER SIGMA (OEM) S-460 (--- QTS)

## 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			ATTENTION	ATTENTION	ABNORMAL		
Particles >14µm	ASTM D7647	>80	<u> </u>	<u> </u>	<u> </u>		
Particles >21µm	ASTM D7647	>20	<b>4</b> 4	13	<b>4</b> 34		
Oil Cleanliness	ISO 4406 (c)	>/17/13	<u> </u>	▲ 19/18/14	<u> </u>		

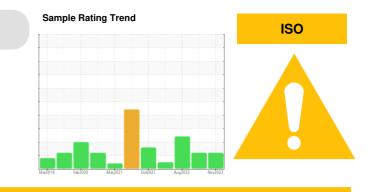
Customer Id: FEDTWI Sample No.: KC124778 Lab Number: 06012405 Test Package: IND 2



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**

### 02 May 2023 Diag: Don Baldridge



### 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 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.

## 16 Aug 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.An increase in the copper level is noted. All other 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.

08 Apr 2022 Diag: Don Baldridge



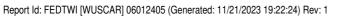
Resample at the next service interval to monitor.All component wear rates are normal. The amount and size of particulates present in the system are acceptable. There is no indication of any contamination in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.



view report

view report







## **OIL ANALYSIS REPORT**

# KAESER SM 10 5399168 (S/N 1752)

**Compressor** Fluid

KAESER SIGMA (OEM) S-460 (--- QTS)

## 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

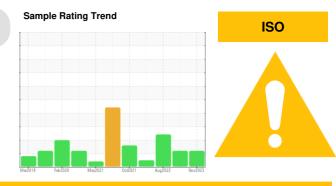
All component wear rates are normal.

## Contamination

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

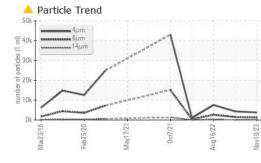
### Fluid Condition

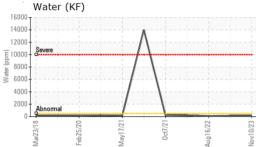
The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

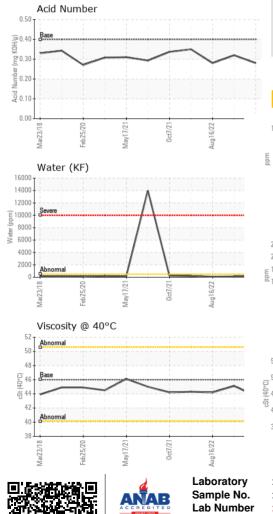


SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		KC124778	KC109304	KC104902
Sample Date		Client Info		10 Nov 2023	02 May 2023	16 Aug 2022
Machine Age	hrs	Client Info		24272	21969	21325
Oil Age	hrs	Client Info		0	644	5328
Oil Changed		Client Info		N/A	Changed	Changed
Sample Status				ATTENTION	ATTENTION	ABNORMAL
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>50	0	0	0
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	0	0	0
Lead	ppm	ASTM D5185m	>10	0	0	0
Copper	ppm	ASTM D5185m	>50	4	5	<u> </u>
Tin	ppm		>10	<1	<1	<1
Vanadium	ppm	ASTM D5185m		<1	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
	ppm		11		-	-
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		0	0	<1
Barium	ppm	ASTM D5185m	90	0	37	0
Molybdenum	ppm	ASTM D5185m		0	0	0
Manganese	ppm	ASTM D5185m		0	0	0
Magnesium	ppm	ASTM D5185m	90	33	69	9
Calcium	ppm	ASTM D5185m	2	0	2	0
Phosphorus	ppm	ASTM D5185m		0	3	0
Zinc	ppm	ASTM D5185m		5	12	12
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	6	2	4
Sodium	ppm	ASTM D5185m		18	14	2
Potassium	ppm	ASTM D5185m	>20	1	4	0
Water	%	ASTM D6304	>0.05	0.012	0.012	0.008
ppm Water	ppm	ASTM D6304	>500	125.8	121.2	88.6
FLUID CLEANLIN	ESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647		3821	4334	7553
Particles >6µm		ASTM D7647	>1300	1226	<b>1</b> 447	<u> </u>
Particles >14µm		ASTM D7647	>80	<u> </u>	<b>A</b> 82	<b>A</b> 220
Particles >21µm		ASTM D7647	>20	<u> </u>	13	<b>4</b> 34
Particles >38μm		ASTM D7647	>4	2	1	2
Particles >71µm		ASTM D7647	>3	0	0	0
Oil Cleanliness		ISO 4406 (c)	>/17/13	<b>1</b> 9/17/14	▲ 19/18/14	▲ 20/19/15
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	0.4	0.28	0.32	0.28
			J. 1	0.20	0.01	0.20





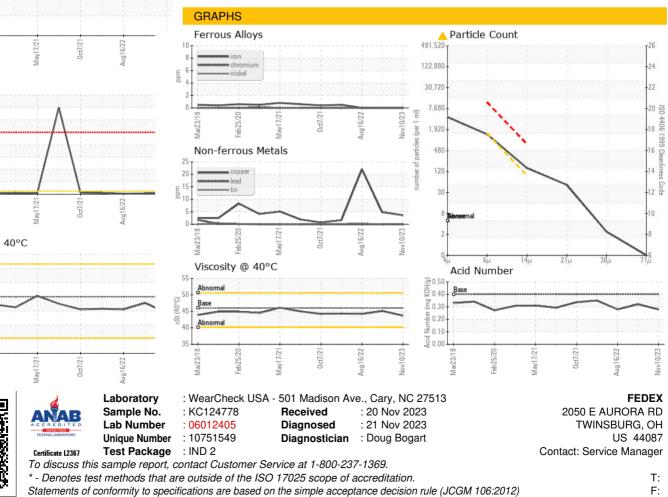




## **OIL ANALYSIS REPORT**

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	IES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	46	43.7	45.1	44.2
SAMPLE IMAGES	6	method	limit/base	current	history1	history2
Color						

Bottom



Contact/Location: Service Manager - FEDTWI