

## **PROBLEM SUMMARY**

Sample Rating Trend

ISO

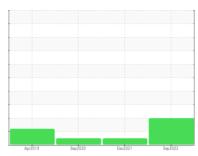
Machine Id

# KAESER BS 61 1437426 (S/N 5102682)

Component

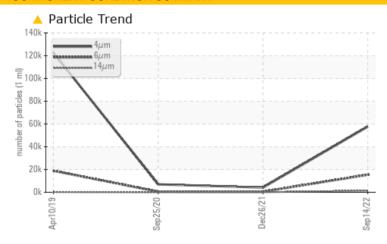
Compressor

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





#### **COMPONENT CONDITION SUMMARY**



#### RECOMMENDATION

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.

PROBLEMATIC TEST RESULTS							
Sample Status		ABNORMAL	NORMAL	NORMAL			
Particles >6µm	ASTM D7647 >1	300 <b>A 15352</b>	542	578			
Particles >14µm	ASTM D7647 >8	30 <b>41459</b>	32	14			
Particles >21µm	ASTM D7647 >2	20 🔺 356	10	6			
Particles >38µm	ASTM D7647 >4	<u> </u>	0	0			
Oil Cleanliness	ISO 4406 (c) >-	-/17/13 <b>△ 23/21/18</b>	16/12	16/11			

Customer Id: HARHALTX Sample No.: KCP48267 Lab Number: 05648338 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 dougb@wearcheckusa.com

To change component or sample information: Customer Service +1 1-800-237-1369 customerservice@wearcheck.com

#### **RECOMMENDED ACTIONS**

Action	Status	Date	Done By	Description
Change Fluid			?	Oil and filter change at the time of sampling has been noted.
Change Filter			?	Oil and filter change at the time of sampling has been noted.

#### HISTORICAL DIAGNOSIS

#### 26 Dec 2021 Diag: Jonathan Hester

#### NORMAL



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.



#### 25 Sep 2020 Diag: Angela Borella

#### NORMAL



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

#### 10 Apr 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.





## **OIL ANALYSIS REPORT**

Sample Rating Trend



# KAESER BS 61 1437426 (S/N 5102682)

Compressor

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

#### **DIAGNOSIS**

#### Recommendation

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.

#### Wear

All component wear rates are normal.

#### Contamination

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

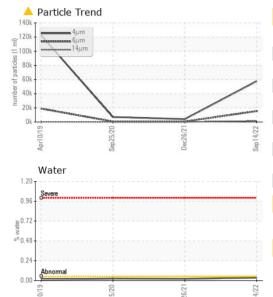
#### **Fluid Condition**

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

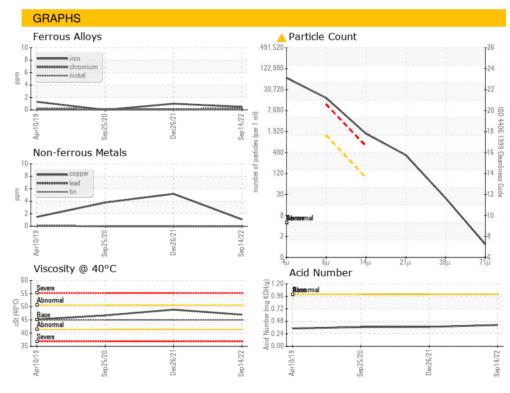
		Apr201	Sep2020	Dec2021 Se	p2022	
SAMPLE INFORM	MATION	method	limit/base	current	history 1	history 2
Sample Number				KCP48267	KCP28303	KCP30545
Sample Date				14 Sep 2022	26 Dec 2021	25 Sep 2020
Machine Age	hrs			48652	48213	46171
Oil Age	hrs			0	3000	0
Oil Changed				Changed	Changed	Changed
Sample Status				ABNORMAL	NORMAL	NORMAL
WEAR METALS		method	limit/base	current	history 1	history 2
Iron	ppm	ASTM D5185m	>50	<1	1	0
Chromium	ppm	ASTM D5185m	>10	<1	<1	<1
Nickel	ppm	ASTM D5185m	>3	<1	0	0
Titanium	ppm	ASTM D5185m	>3	0	0	0
Silver	ppm	ASTM D5185m	>2	0	<1	0
Aluminum	ppm	ASTM D5185m	>10	<1	2	0
Lead	ppm	ASTM D5185m	>10	0	0	0
Copper	ppm	ASTM D5185m	>50	1	5	4
Tin	ppm	ASTM D5185m	>10	0	0	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	history 1	history 2
Boron	ppm	ASTM D5185m	0	0	<1	<1
Barium	ppm	ASTM D5185m	90	9	3	6
Molybdenum	ppm	ASTM D5185m	0	0	0	0
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m	100	96	52	47
Calcium	ppm	ASTM D5185m	0	0	1	0
Phosphorus	ppm	ASTM D5185m	0	12	7	11
Zinc	ppm	ASTM D5185m	0	6	0	0
Sulfur	ppm	ASTM D5185m	23500	25095	19040	17680
CONTAMINANTS		method	limit/base	current	history 1	history 2
Silicon	ppm	ASTM D5185m	>25	1	<1	0
Sodium	ppm	ASTM D5185m		25	18	17
Potassium	ppm	ASTM D5185m	>20	4	4	3
Water	%	ASTM D6304	>0.05	0.035	0.021	0.024
ppm Water	ppm	ASTM D6304	>500	355.8	217.4	243.5
FLUID CLEANLIN	ESS	method	limit/base	current	history 1	history 2
Particles >4µm		ASTM D7647		57658	4116	6988
Particles >6µm		ASTM D7647	>1300	<u> </u>	542	578
Particles >14μm		ASTM D7647	>80	<u> </u>	32	14
Particles >21µm		ASTM D7647	>20	<u>▲</u> 356	10	6
Particles >38μm		ASTM D7647	>4	<u>^</u> 21	0	0
Particles >71µm		ASTM D7647	>3	1	0	0
Oil Cleanliness		ISO 4406 (c)	>/17/13	<b>23/21/18</b>	16/12	16/11
FLUID DEGRADA	TION	method	limit/base	current	history 1	history 2
	1/011/	4.0T14.D0045			0.0=4	0.0=0



### **OIL ANALYSIS REPORT**



VISUAL		method	limit/base	current	history 1	history 2
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	LIGHT	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
<b>Emulsified Water</b>	scalar	*Visual	>0.05	NEG	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG
FLUID PROPERTIES		method	limit/base	current	history 1	history 2
Visc @ 40°C	cSt	ASTM D445	45	47.0	48.9	46.7
SAMPLE IMAGES	3	method	limit/base	current	history 1	history 2
Color						
Bottom						







Laboratory Sample No. Lab Number

: KCP48267

: 05648338 Unique Number : 10142877

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 22 Sep 2022 Diagnosed

: 24 Sep 2022

Diagnostician : Doug Bogart

Test Package : IND 2 ( Additional Tests: KF, PrtCount ) 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)

HARRIS PACKAGING

1600 CARSON ST HALTOM CITY, TX USA 76117

Contact: Service Manager