

PROBLEM SUMMARY

Sample Rating Trend

WEAR

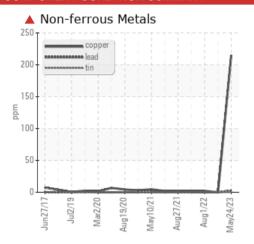
Machine Id

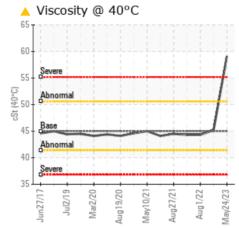
KAESER SK 20 3765919 (S/N 1492)

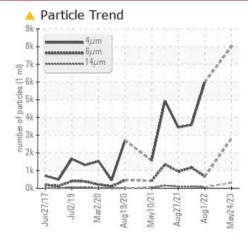
Component Compressor

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

COMPONENT CONDITION SUMMARY







RECOMMENDATION

The filter change at the time of sampling has been noted. We advise that you inspect for the source(s) of wear. We recommend an early resample in 500 hours to monitor this condition.

PROBLEMATIC TEST RESULTS										
Sample Status				SEVERE	ABNORMAL	NORMAL				
Copper	ppm	ASTM D5185m	>50	1 215	0	2				
Particles >6µm		ASTM D7647	>1300	2815		664				
Particles >14μm		ASTM D7647	>80	△ 309		61				
Particles >21μm		ASTM D7647	>20	^ 76		20				
Oil Cleanliness		ISO 4406 (c)	>/17/13	<u>^</u> 20/19/15		20/17/13				
Visc @ 40°C	cSt	ASTM D445	45	59.1	45.2	44.3				

Customer Id: ATCFRE Sample No.: KCPA001873 **Lab Number:** 05874478 Test Package: IND 2



To manage this report scan the QR code

To discuss the diagnosis or test data: Jonathan Hester +1 919-379-4092 x4092 ihester@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

Inspect Wear Source MISSED Dec 20 2023 Description

We advise that you inspect for the source(s) of wear.

HISTORICAL DIAGNOSIS

28 Mar 2023 Diag: Don Baldridge

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. We were unable to perform a particle count due to a high concentration of particles present in this sample. All component wear rates are normal. Moderate concentration of visible dirt/debris present in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.



01 Aug 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.



08 Nov 2021 Diag: Don Baldridge

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. 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.

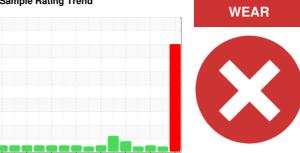






OIL ANALYSIS REPORT

Sample Rating Trend



Machine Id

KAESER SK 20 3765919 (S/N 1492)

Compressor

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

DIAGNOSIS

Recommendation

The filter change at the time of sampling has been noted. We advise that you inspect for the source(s) of wear. We recommend an early resample in 500 hours to monitor this condition.

Wear

The copper level is severe.

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.

Jun2017 Jul2019 Mar2020 Aug2020 Mar2021 Aug2022 Marg202.								
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2		
Sample Number		Client Info		KCPA001873	KCPA000181	KCP49793		
Sample Date		Client Info		24 May 2023	28 Mar 2023	01 Aug 2022		
Machine Age	hrs	Client Info		99999	99999	96989		
Oil Age	hrs	Client Info		0	0	4861		
Oil Changed		Client Info		N/A	N/A	Not Changd		
Sample Status				SEVERE	ABNORMAL	NORMAL		
WEAR METALS		method	limit/base	current	history1	history2		
Iron	ppm	ASTM D5185m	>50	2	0	<1		
Chromium	ppm	ASTM D5185m	>10	<1	0	0		
Nickel	ppm	ASTM D5185m	>3	<1	0	0		
Titanium	ppm	ASTM D5185m	>3	<1	0	0		
Silver	ppm	ASTM D5185m	>2	0	0	<1		
Aluminum	ppm	ASTM D5185m	>10	<1	<1	2		
Lead	ppm	ASTM D5185m	>10	3	0	0		
Copper	ppm	ASTM D5185m	>50	215	0	2		
Tin	ppm	ASTM D5185m	>10	<1	0	<1		
Antimony	ppm	ASTM D5185m						
Vanadium	ppm	ASTM D5185m		<1	0	0		
Cadmium	ppm	ASTM D5185m		<1	0	<1		
ADDITIVES		method	limit/base	current	history1	history2		
Boron	ppm	ASTM D5185m	0	0	0	0		
Barium	ppm	ASTM D5185m	90	0	76	8		
Molybdenum	ppm	ASTM D5185m	0	<1	0	0		
Manganese	ppm	ASTM D5185m		<1	<1	<1		
Magnesium	ppm	ASTM D5185m	100	39	85	42		
Calcium	ppm	ASTM D5185m	0	13	2	<1		
Phosphorus	ppm	ASTM D5185m	0	23	0	1		
Zinc	ppm	ASTM D5185m	0	330	0	2		
Sulfur	ppm	ASTM D5185m	23500	23240	22099	17291		
CONTAMINANTS	\$	method	limit/base	current	history1	history2		
Silicon	ppm	ASTM D5185m	>25	2	<1	<1		
CINCOTT				2		~ 1		
Sodium	ppm	ASTM D5185m		7	20	8		
	ppm ppm	ASTM D5185m ASTM D5185m	>20					
Sodium			>20 >0.05	7	20	8		
Sodium Potassium	ppm	ASTM D5185m		7	20	8		
Sodium Potassium Water	ppm % ppm	ASTM D5185m ASTM D6304	>0.05	7 3 0.025	20 0 0.015	8 2 0.018		
Sodium Potassium Water ppm Water	ppm % ppm	ASTM D5185m ASTM D6304 ASTM D6304	>0.05 >500	7 3 0.025 254.9 current 8003	20 0 0.015 155.3	8 2 0.018 186.8		
Sodium Potassium Water ppm Water FLUID CLEANLIN	ppm % ppm	ASTM D5185m ASTM D6304 ASTM D6304 method	>0.05 >500 limit/base	7 3 0.025 254.9 current	20 0 0.015 155.3 history1	8 2 0.018 186.8 history2		
Sodium Potassium Water ppm Water FLUID CLEANLIN Particles >4µm	ppm % ppm	ASTM D5185m ASTM D6304 ASTM D6304 method ASTM D7647	>0.05 >500 limit/base	7 3 0.025 254.9 current 8003	20 0 0.015 155.3 history1	8 2 0.018 186.8 history2		
Sodium Potassium Water ppm Water FLUID CLEANLIN Particles >4µm Particles >6µm	ppm % ppm	ASTM D5185m ASTM D6304 ASTM D6304 method ASTM D7647 ASTM D7647	>0.05 >500 limit/base >1300 >80	7 3 0.025 254.9 current 8003 ^ 2815	20 0 0.015 155.3 history1	8 2 0.018 186.8 history2 5998 664		
Sodium Potassium Water ppm Water FLUID CLEANLIN Particles >4µm Particles >6µm Particles >14µm	ppm % ppm	ASTM D5185m ASTM D6304 ASTM D6304 method ASTM D7647 ASTM D7647 ASTM D7647	>0.05 >500 limit/base >1300 >80	7 3 0.025 254.9 current 8003 2815 309	20 0 0.015 155.3 history1	8 2 0.018 186.8 history2 5998 664 61		
Sodium Potassium Water ppm Water FLUID CLEANLIN Particles >4µm Particles >6µm Particles >14µm Particles >21µm	ppm % ppm	ASTM D5185m ASTM D6304 ASTM D6304 method ASTM D7647 ASTM D7647 ASTM D7647	>0.05 >500 limit/base >1300 >80 >20 >4	7 3 0.025 254.9 current 8003 2815 309 76	20 0 0.015 155.3 history1	8 2 0.018 186.8 history2 5998 664 61 20		
Sodium Potassium Water ppm Water FLUID CLEANLIN Particles >4µm Particles >6µm Particles >14µm Particles >21µm Particles >38µm	ppm % ppm	ASTM D5185m ASTM D6304 ASTM D6304 method ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647	>0.05 >500 limit/base >1300 >80 >20 >4	7 3 0.025 254.9 current 8003 2815 309 76 1	20 0 0.015 155.3 history1	8 2 0.018 186.8 history2 5998 664 61 20 2		



OIL ANALYSIS REPORT

