

PROBLEM SUMMARY

Sample Rating Trend

ISO

Machine Id

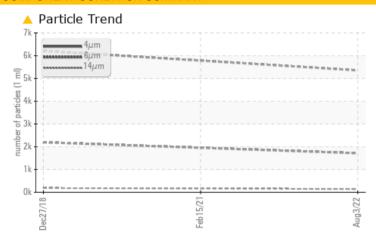
KAESER SM 10 5331231 (S/N 1051)

Component

Compressor

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

COMPONENT CONDITION SUMMARY



RECOMMENDATION

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			ATTENTION	ABNORMAL	ABNORMAL		
Particles >6µm	ASTM D7647	>1300	<u> </u>		<u>^</u> 2195		
Particles >14μm	ASTM D7647	>80	140		△ 186		
Particles >21µm	ASTM D7647	>20	△ 33		△ 35		
Oil Cleanliness	ISO 4406 (c)	>/17/13	20/18/14		▲ 18/15		

Customer Id: PENSED Sample No.: KCP48249 Lab Number: 05664189 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 jhester@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

15 Feb 2021 Diag: Don Baldridge

VIS DEBRIS



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. 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.



27 Dec 2018 Diag: Angela Borella

WEAR

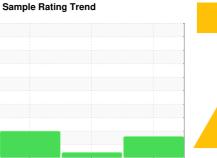


Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor. The copper level is abnormal. All other component wear rates are normal. There is a high amount of particulates present in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.





OIL ANALYSIS REPORT



ISO

KAESER SM 10 5331231 (S/N 1051)

Compressor

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

DIAGNOSIS

Recommendation

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.

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.

		Dec	2018	Feb2021 Aug20	22	
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		KCP48249	KCP34173	KCP11269
Sample Date		Client Info		03 Aug 2022	15 Feb 2021	27 Dec 2018
Machine Age	hrs	Client Info		30440	25206	8361
Oil Age	hrs	Client Info		1814	3000	0
Oil Changed		Client Info		Changed	Changed	Changed
Sample Status				ATTENTION	ABNORMAL	ABNORMAL
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>50	<1	2	0
Chromium	ppm	ASTM D5185m	>10	0	0	0
Nickel	ppm	ASTM D5185m	>3	0	0	<1
Titanium	ppm	ASTM D5185m	>3	0	0	0
Silver	ppm	ASTM D5185m	>2	0	<1	<1
Aluminum	ppm	ASTM D5185m	>10	0	0	0
Lead	ppm	ASTM D5185m	>10	0	<1	0
Copper	ppm	ASTM D5185m	>50	9	2	△ 68
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	history1	history2
Boron	ppm	ASTM D5185m	0	0	<1	<1
Barium	ppm	ASTM D5185m	90	2	72	0
Molybdenum	ppm	ASTM D5185m	0	0	0	0
Manganese	ppm	ASTM D5185m		<1	0	0
Magnesium	ppm	ASTM D5185m	100	16	84	0
Calcium	ppm	ASTM D5185m	0	0	<1	0
Phosphorus	ppm	ASTM D5185m	0	9	0	0
Zinc	ppm	ASTM D5185m	0	97	2	0
Sulfur	ppm	ASTM D5185m	23500	23563	18632	17988
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	<1	0	<1
Sodium	ppm	ASTM D5185m		2	6	0
Potassium	ppm	ASTM D5185m	>20	1	1	<1
Water	%	ASTM D6304	>0.05	0.010	0.020	0.003
ppm Water	ppm	ASTM D6304	>500	109.7	202.1	30
FLUID CLEANLIN	ESS	method	limit/base	current	history1	history2
Particles >4μm		ASTM D7647		5355		6213
Particles >6µm		ASTM D7647		<u> </u>		<u>^</u> 2195
Particles >14µm		ASTM D7647	>80	<u> 140</u>		<u> </u>
Particles >21µm		ASTM D7647		4 33		<u></u> 4 35
Particles >38µm		ASTM D7647	>4	3		2
Particles >71µm		ASTM D7647		0		0
Oil Cleanliness		ISO 4406 (c)	>/17/13	<u>20/18/14</u>		▲ 18/15
FLUID DEGRADA		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	1.0	0.34	0.390	0.339



OIL ANALYSIS REPORT

