

PROBLEM SUMMARY

Sample Rating Trend

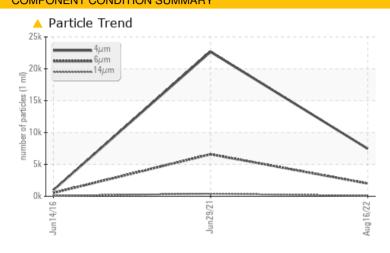


Machine Id KAESER SM-15 5367851 (S/N 1460)

Compressor

KAESER SIGMA (OEM) S-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	ATTENTION			
Particles >6µm	ASTM D7647 >1300	^ 2000	<u>▲</u> 6587	523			
Particles >14µm	ASTM D7647 >80	83	△ 394	A 89			
Oil Cleanliness	ISO 4406 (c) >/17	/13 _ 20/18/14	2 0/16	<u></u>			

Customer Id: MALELM Sample No.: KC105509 Lab Number: 05625256 Test Package: IND 2

To manage this report scan the QR code

To discuss the diagnosis or test data: Angela Borella +1 800-237-1369 angela.borella@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

29 Jun 2021 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. 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.



14 Jun 2016 Diag: Don Baldridge

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 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



KAESER SM-15 5367851 (S/N 1460)

Compressor

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

DIAGNOSIS Recommendation

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 moderate amount of particulates present in the oil.

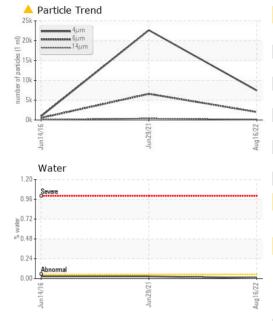
Fluid Condition

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

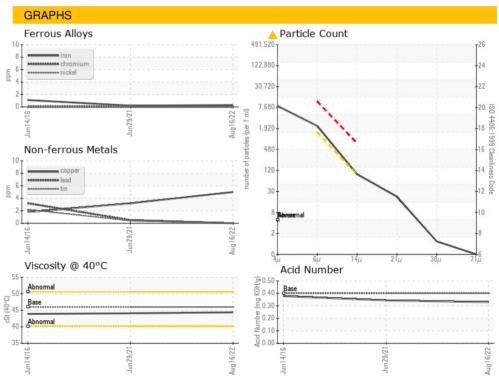
		Jur	2016	Jun2021 Aug2022		
SAMPLE INFORM	MATION	method	limit/base	current	history 1	history 2
Sample Number				KC105509	KC99324	KC50835
Sample Date				16 Aug 2022	29 Jun 2021	14 Jun 2016
Machine Age	hrs			30549	20749	2339
Oil Age	hrs			9800	2121	0
Oil Changed				Changed	Changed	Changed
Sample Status				ATTENTION	ABNORMAL	ATTENTION
WEAR METALS		method	limit/base	current	history 1	history 2
Iron	ppm	ASTM D5185m	>50	<1	<1	1
Chromium	ppm	ASTM D5185m	>10	0	0	0
Nickel	ppm	ASTM D5185m	>3	0	<1	<1
Titanium	ppm	ASTM D5185m	>3	0	0	0
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>10	0	<1	<1
Lead	ppm	ASTM D5185m	>10	0	<1	3
Copper	ppm	ASTM D5185m	>50	5	3	2
Tin	ppm	ASTM D5185m	>10	0	<1	2
Antimony	ppm	ASTM D5185m			<1	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	14	<1
Barium	ppm	ASTM D5185m	90	0	4	41
Molybdenum	ppm	ASTM D5185m		0	0	0
Manganese	ppm	ASTM D5185m		0	0	<1
Magnesium	ppm	ASTM D5185m	90	46	52	79
Calcium	ppm	ASTM D5185m	2	0	2	4
Phosphorus	ppm	ASTM D5185m		0	11	38
Zinc	ppm	ASTM D5185m		0	6	4
CONTAMINANTS	;	method	limit/base	current	history 1	history 2
Silicon	ppm	ASTM D5185m	>25	<1	<1	<1
Sodium	ppm	ASTM D5185m		14	13	18
Potassium	ppm	ASTM D5185m		2	2	2
Water	%	ASTM D6304	>0.05	0.009	0.026	0.026
ppm Water	ppm	ASTM D6304	>500	96.8	268.4	260
FLUID CLEANLIN	IESS	method	limit/base	current	history 1	history 2
Particles >4µm		ASTM D7647		7458	22651	961
Particles >6µm		ASTM D7647	>1300	<u>^</u> 2000	<u>▲</u> 6587	523
Particles >14μm		ASTM D7647	>80	▲ 83	△ 394	▲ 89
Particles >21µm		ASTM D7647	>20	19	<u></u> 48	△ 30
Particles >38μm		ASTM D7647	>4	1	2	4
Particles >71μm		ASTM D7647	>3	0	0	0
Oil Cleanliness		ISO 4406 (c)	>/17/13	<u>^</u> 20/18/14	2 0/16	<u>▲</u> 16/14
FLUID DEGRADA	TION	method	limit/base	current	history 1	history 2
Acid Number (AN)	mg KOH/g	ASTM D8045	0.4	0.33	0.344	0.378



OIL ANALYSIS REPORT



VISUAL		method	limit/base	current	history 1	history 2
White Metal	scalar	*Visual	NONE	NONE	VLITE	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 PROPERTIES		method	limit/base	current	history 1	history 2
Visc @ 40°C	cSt	ASTM D445	46	44.4	44.1	43.91
SAMPLE IMAGES		method	limit/base	current	history 1	history 2
Color						
Bottom						







Certificate L2367

Laboratory Sample No. Lab Number

Unique Number : 10104763

: KC105509 : 05625256 Test Package : IND 2

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 23 Aug 2022 Diagnosed Diagnostician : Angela Borella

: 25 Aug 2022

MALL TAIL 397 E 54TH ST ELMWOOD PARK, NJ

USA 07407

Contact: SERVICE MANAGER

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)

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