

PROBLEM SUMMARY

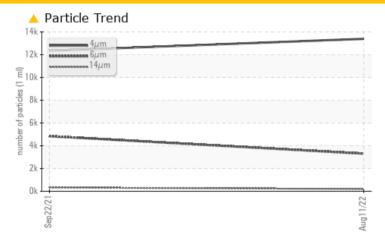


Machine Id 7721831 (S/N 1624)

Component **Compressor** Fluid

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			ABNORMAL	ABNORMAL	
Particles >6µm	ASTM D7647	>1300	△ 3306	4840	
Particles >14µm	ASTM D7647	>80	196	△ 331	
Particles >21µm	ASTM D7647	>20	43	<u> </u>	
Oil Cleanliness	ISO 4406 (c)	>/17/13	21/19/15	A 19/16	

Customer Id: SPISTO Sample No.: KC104960 Lab Number: 05618957 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

22 Sep 2021 Diag: Jonathan Hester





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

7721831 (S/N 1624)

Compressor

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

Sample Rating Trend



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 high amount of particulates present in the oil.

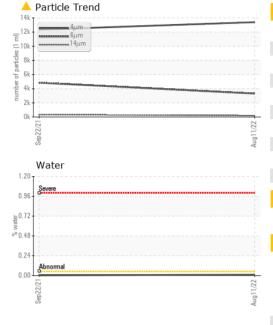
Fluid Condition

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

			Sep2021	Aug ² 022		
SAMPLE INFORM	MATION	method	limit/base	current	history 1	history 2
Sample Number				KC104960	KC88916	
Sample Date				11 Aug 2022	22 Sep 2021	
Machine Age	hrs			15368	2312	
Oil Age	hrs			3000	2312	
Oil Changed				Changed	Changed	
Sample Status				ABNORMAL	ABNORMAL	
WEAR METALS		method	limit/base	current	history 1	history 2
Iron	ppm	ASTM D5185m	>50	0	0	
Chromium	ppm	ASTM D5185m	>10	0	0	
Nickel	ppm	ASTM D5185m	>3	0	<1	
Titanium	ppm	ASTM D5185m	>3	0	0	
Silver	ppm	ASTM D5185m	>2	<1	0	
Aluminum	ppm	ASTM D5185m	>10	<1	0	
Lead	ppm	ASTM D5185m	>10	0	0	
Copper	ppm	ASTM D5185m	>50	3	5	
Tin	ppm	ASTM D5185m	>10	<1	0	
Antimony	ppm	ASTM D5185m			0	
Vanadium	ppm	ASTM D5185m		0	0	
Cadmium	ppm	ASTM D5185m		0	0	
ADDITIVES		method	limit/base	current	history 1	history 2
Boron	ppm	ASTM D5185m	0	<1	24	
Barium	ppm	ASTM D5185m	90	0	0	
Molybdenum	ppm	ASTM D5185m	0	0	2	
Manganese	ppm	ASTM D5185m		0	0	
Magnesium	ppm	ASTM D5185m	100	7	9	
Calcium	ppm	ASTM D5185m	0	0	6	
Phosphorus	ppm	ASTM D5185m	0	3	2	
Zinc	ppm	ASTM D5185m	0	<1	5	
CONTAMINANTS	;	method	limit/base	current	history 1	history 2
Silicon	ppm	ASTM D5185m	>25	<1	<1	
Sodium	ppm	ASTM D5185m		2	1	
Potassium	ppm	ASTM D5185m	>20	0	14	
Water	%	ASTM D6304	>0.05	0.010	0.004	
ppm Water	ppm	ASTM D6304	>500	107.7	43.3	
FLUID CLEANLIN	IESS	method	limit/base	current	history 1	history 2
Particles >4μm		ASTM D7647		13393	12347	
Particles >6µm		ASTM D7647	>1300	4 3306	▲ 4840	
Particles >14μm		ASTM D7647	>80	<u> </u>	▲ 331	
Particles >21μm		ASTM D7647	>20	43	<u>144</u>	
Particles >38μm		ASTM D7647	>4	2	<u>12</u>	
Particles >71μm		ASTM D7647	>3	0	0	
Oil Cleanliness		ISO 4406 (c)	>/17/13	<u>^</u> 21/19/15	<u> </u>	
FLUID DEGRADA	TION	method	limit/base	current	history 1	history 2
Acid Number (AN)	mg KOH/g	ASTM D8045	1.0	0.38	0.399	



OIL ANALYSIS REPORT



VISUAL		method	limit/base	current	history 1	history 2
White Metal	scalar	*Visual	NONE	NONE	NONE	
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
Precipitate	scalar	*Visual	NONE	NONE	NONE	
Silt	scalar	*Visual	NONE	NONE	NONE	
Debris	scalar	*Visual	NONE	NONE	LIGHT	
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	
Appearance	scalar	*Visual	NORML	NORML	NORML	
Odor	scalar	*Visual	NORML	NORML	NORML	
Emulsified Water	scalar	*Visual	>0.05	NEG	NEG	
Free Water	scalar	*Visual		NEG	NEG	
FLUID PROPERT	IES	method	limit/base	current	history 1	history 2
Visc @ 40°C	cSt	ASTM D445	45	44.4	45.9	
SAMPLE IMAGES	}	method	limit/base	current	history 1	history 2
Color						no image

GRAPHS Ferrous Alloys	▲ Particle Count	
Terrous Alloys	491,520	
iron accenerace chromium nickel	122,880	
	30,720	
4.444.444	7,680	
Sep22/21	1,920 - Lim	
Non-ferrous Metals	Aug 11/22. Aug 11/22. 1.920 -	
copper	120-	
mananananan tin	30-	
	8 Sebrewernal	
Sep 22/2/24	2- 2- 2-	
پر Viscosity @ 40°C	Q_{μ} Q_{μ	21μ 38μ 7
Severe		
Abnormal	Q 0.96 + 9	
Base Abnormal	© 0.48	
Severe	09 1.20 0 0.96 0 0.72 0 0.48 0 0.24 0 0.00	
Sep22/21-	Aug11/22 † P. P	



Certificate L2367

Laboratory Sample No. Lab Number Unique Number : 10098464 Test Package : IND 2

: KC104960 : 05618957

Bottom

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

: 16 Aug 2022 : 18 Aug 2022 Diagnostician : Jonathan Hester

SPIROL 321 REMINGTON RD STOW, OH USA 44224 Contact: Service Manager

no image

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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