

PROBLEM SUMMARY

Sample Rating Trend

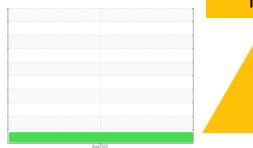
ISO

Machine Id **6865545 (S/N 1995)**

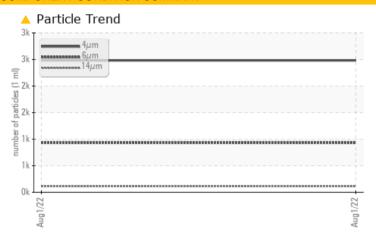
Component

Compressor

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



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 T	EST RESULTS			
Sample Status			ATTENTION	
Particles >14μm	ASTM D7647	>80	114	
Oil Cleanliness	ISO 4406 (c)	>/17/13	18/17/14	

Customer Id: BREATL Sample No.: KCP50700 Lab Number: 05648950 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

RECOMMENDE	O 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



OIL ANALYSIS REPORT

Sample Rating Trend ISO

6865545 (S/N 1995)

Compressor

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

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 moderate amount of particulates present in the oil.

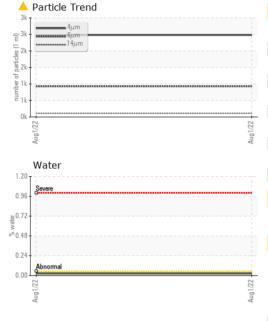
Fluid Condition

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

				Aug2022		
SAMPLE INFORM	MATION	method	limit/base	current	history 1	history 2
Sample Number				KCP50700		
Sample Date				01 Aug 2022		
Machine Age	hrs			802		
Oil Age	hrs			700		
Oil Changed				Changed		
Sample Status				ATTENTION		
WEAR METALS		method	limit/base	current	history 1	history 2
Iron	ppm	ASTM D5185m	>50	<1		
Chromium	ppm	ASTM D5185m	>10	0		
Nickel	ppm	ASTM D5185m	>3	0		
Titanium	ppm	ASTM D5185m	>3	0		
Silver	ppm	ASTM D5185m	>2	0		
Aluminum	ppm	ASTM D5185m	>10	0		
Lead	ppm	ASTM D5185m	>10	1		
Copper	ppm	ASTM D5185m	>50	3		
Tin	ppm	ASTM D5185m	>10	<1		
Vanadium	ppm	ASTM D5185m		0		
Cadmium	ppm	ASTM D5185m		0		
ADDITIVES		method	limit/base	current	history 1	history 2
Boron	ppm	ASTM D5185m	0	0		
Barium	ppm	ASTM D5185m	90	0		
Molybdenum	ppm	ASTM D5185m	0	0		
Manganese	ppm	ASTM D5185m		<1		
Magnesium	ppm	ASTM D5185m	100	41		
Calcium	ppm	ASTM D5185m	0	0		
Phosphorus	ppm	ASTM D5185m	0	13		
Zinc	ppm	ASTM D5185m	0	4		
Sulfur	ppm	ASTM D5185m	23500	20955		
CONTAMINANTS		method	limit/base	current	history 1	history 2
Silicon	ppm	ASTM D5185m	>25	2		
Sodium	ppm	ASTM D5185m		9		
Potassium	ppm	ASTM D5185m	>20	<1		
Water	%	ASTM D6304	>0.05	0.024		
ppm Water	ppm	ASTM D6304	>500	246.3		
FLUID CLEANLIN	ESS	method	limit/base	current	history 1	history 2
Particles >4µm		ASTM D7647		2482		
Particles >6µm		ASTM D7647		930		
Particles >14µm		ASTM D7647	>80	<u> </u>		
Particles >21μm		ASTM D7647		19		
Particles >38μm		ASTM D7647	>4	1		
Particles >71μm		ASTM D7647		0		
Oil Cleanliness		ISO 4406 (c)	>/17/13	<u> </u>		
FLUID DEGRADA	TION	method	limit/base	current	history 1	history 2
Acid Number (AN)	mg KOH/g	ASTM D8045	1.0	0.42		



OIL ANALYSIS REPORT



VISUAL		method	limit/base	current	history 1	history 2
White Metal	scalar	*Visual	NONE	NONE		
Yellow Metal	scalar	*Visual	NONE	NONE		
Precipitate	scalar	*Visual	NONE	NONE		
Silt	scalar	*Visual	NONE	NONE		
Debris	scalar	*Visual	NONE	NONE		
Sand/Dirt	scalar	*Visual	NONE	NONE		
Appearance	scalar	*Visual	NORML	NORML		
Odor	scalar	*Visual	NORML	NORML		
Emulsified Water	scalar	*Visual	>0.05	NEG		
Free Water	scalar	*Visual		NEG		
FLUID PROPER	TIES	method	limit/base	current	history 1	history 2
Visc @ 40°C	cSt	ASTM D445	45	44.9		
SAMPLE IMAGE	S	method	limit/base	current	history 1	history 2
Color					no image	no image
Bottom					no image	no image
GRAPHS						
Ferrous Alloys				Particle Count		
Ferrous Alloys			491,520	Particle Count	11 1	T ²⁶
Ferrous Alloys						J ²⁶
Ferrous Alloys iron annanana chromium occorronana nickel			491,520			+24
Ferrous Alloys			491,520 122,880 30,720			+24 +22
Ferrous Alloys iron iron nickel	***************************************	***************************************	491,520 122,880 30,720 7,680			+24 +22
Ferrous Alloys iron iron nickel	***************************************	000000000000000000000000000000000000000	491,520 122,880 30,720 7,680			+24 +22
Ferrous Alloys iron mickel 2277		***************************************	491,520 122,880 30,720 7,680			+24 +22
Ferrous Alloys iron chromium chromium chromium chromium chromium chromium chromium chromium	ls	***************************************	491,520 122,880 30,720 7,680			+24 +22
Ferrous Alloys iron iron iron iron iron iron iron iro	**************************************	***************************************	491,520 122,880 30,720 7,680			-24 -22 -20 to 190
Ferrous Alloys iron iron iron iron iron iron iron iro		300030000000000000000000000000000000000	491,520 122,880 30,720 7,680 1,920 480			-24 -22 -20 to 190
Non-ferrous Meta	ls		491,520 122,880 30,720 7,680 101 109 1,990 120 480 120			+24 +22 +20 50 +446, 1333 +18 Ceanings
Ferrous Alloys iron chromium nickel Non-ferrous Meta	S	300000000000000000000000000000000000000	491,520 122,880 30,720 7,680 7,680 1,990 480 480 120 30			18 10 July 1997 1997 1997 1997 1997 1997 1997 199
Ferrous Alloys iron chromium nickel Non-ferrous Meta		***************************************	491,520 122,880 30,720 7,680 7,680 1,990 480 480 120 30			124 122 120 50 446.1333 1133 1133 1133 1133 1133 1133 113
Non-ferrous Meta	ls		491,520 122,880 30,720 7,680 480 120,000 480 300 480 480 480 480 480	Rbreemal 4 6j4	14μ 21μ	18 10 July 1997 1997 1997 1997 1997 1997 1997 199
Non-ferrous Meta	s	***************************************	491,520 122,880 30,720 7,680 120,08	Abreemal βμ Acid Number	14µ 21µ	18 103 desimilar to 10 t
Non-ferrous Meta Viscosity @ 40°C Severe	Is	***************************************	491,520 122,880 30,720 7,680 120,08	Abreemal βμ Acid Number	14μ 21μ	18 103 desimilar to 10 t
Non-ferrous Meta Viscosity @ 40°C Severe	ls		491,520 122,880 30,720 7,680 120,08	Abreemal βμ Acid Number	14μ 21μ	18 133 dealiness code 110 -10 -8
Non-ferrous Meta	ls		491,520 122,880 30,720 7,680 480 120,000 480 300 480 480 480 480 480	Abreemal βμ Acid Number	14μ 21μ	18 133 dealiness code 110 -10 -8





Laboratory Sample No. Lab Number

ppm

: KCP50700 : 05648950 Unique Number : 10143489

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 22 Sep 2022 Diagnosed : 26 Sep 2022

Diagnostician : Jonathan Hester

1737 ELLSWORTH INDUSTRIAL BLVD NW ATLANTA, GA

BREWED TO SERVE RESTAURANT GROUP INC

USA 30318 Contact: Service Manager

Test Package: IND 2 (Additional Tests: KF, PrtCount) Certificate L2367 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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