

TEST REPORT

Test Report # 20A-006037(A1) Date of Report Issue: October 14, 2020
Date of Sample Received: September 10, 2020 Pages: Page 1 of 14

CLIENT INFORMATION:

Company: Mid Ocean Brands B.V.
Address: 7/F., Kings Tower, 111 King Lam Street, Cheung Sha Wan, Kowloon, Hong Kong



SAMPLE INFORMATION:

Product Name: Electric salt or pepper mill
Style No.: -
Order No.(PO No.): -
Country of Origin: -
Country of Distribution: Europe
Model No.: MO8816
Composition/Main Material: PS, stainless steel,ABS
Buyer Name: Mid Ocean Brands B.V.
Supplier Name: 100396
Testing Period: 09/11/2020-09/21/2020, 09/30/2020-10/10/2020, 10/12/2020-10/14/2020

OVERALL RESULT:

 **PASS**

Please refer to the following pages for test result summary and appropriate notes.

QIMA (HANGZHOU) TESTING CO., LTD.

Contrary Kong

Contrary Kong
Chemical Laboratory Manager



QIMA (HANGZHOU) TESTING CO., LTD. ♦ 4-5/F A2 BLDG NO. 1213 HUOJU SOUTH ROAD PUYAN STREET BINJIANG DISTRICT HANGZHOU CHINA

♦ Email: Labtesting@qima.com ♦ Tel: (86) 571 8999 7158.

Test(s) marked with 'φ' was subcontracted to external laboratory.

The test result(s) and conclusion(s) in this report relate only to the sample(s) as received and method /regulation section(s) tested as described herein.

If it is not further specified in the report, the decision rule for stating conformity is based on the QIMA decision rule.

This test report may not be reproduced in whole or in part, without written approval of QIMA (Hangzhou) Testing Co., Ltd.

TEST RESULTS SUMMARY:

At the request of the client, the following tests were conducted:

CONCLUSION	TEST(S) CONDUCTED
PASS	Directive 2011/65/EU and it's amend regulation 2015/863/EU, Restriction of the Use of Certain Hazardous Substances (RoHS)



DETAILED RESULTS:

Directive 2011/65/EU and it's amend regulation 2015/863/EU, Restriction of the Use of Certain Hazardous Substances (RoHS)

Test Method: IEC 62321-3-1:2013 for Cadmium, Lead, Mercury, Chromium and Bromine by XRF
 IEC 62321-4:2013/AMD1:2017 for Mercury by ICP-OES
 IEC 62321-5:2013 for Lead, Cadmium and Chromium by ICP-OES
 IEC 62321-6:2015 for PBBs and PBDEs by GC-MS
 IEC 62321-7-1:2015, IEC62321-7-2:2017 for Hexavalent Chromium by UV- Vis[#]

Analytical Method: X-ray Fluorescence Spectrometry
 Inductively Coupled Plasma-Optical Emission Spectrometry
 Gas Chromatography Mass Spectrometry
 UV-Visible Spectrophotometry

No.	Parts Name	Test Item (mg/kg)						Conclusion
		Pb	Cd	Hg	CrVI	PBBs	PBDEs	
1	Silvery metal main body	ND	ND	ND	Ne	-	-	PASS
2	Silvery metal end cover	ND	ND	ND	Ne	-	-	PASS
3	Black plastic sleeve	BL	BL	BL	BL	ND	289	PASS
4	Black plastic end cover	BL	BL	BL	BL	BL	BL	PASS
5	Transparent plastic sleeve	BL	BL	BL	BL	BL	BL	PASS
6	Black plastic big holder	BL	BL	BL	BL	BL	BL	PASS
7	Translucent plastic sleeve	BL	BL	BL	BL	BL	BL	PASS
8	Black plastic small holder	BL	BL	BL	BL	BL	BL	PASS
9	White plastic ring	BL	BL	BL	BL	BL	BL	PASS
10	White plastic ring-screw	ND	ND	ND	Ne	-	-	PASS
11	White plastic ring-big screw	183	ND	ND	Ne	-	-	PASS
12	Black plastic sheet	BL	BL	BL	BL	BL	BL	PASS
13	Silvery metal shaft	112	ND	19	Ne	-	-	PASS
14	White ceramic ring	BL	BL	BL	BL	BL	BL	PASS
15	white ceramic sleeve	BL	BL	BL	BL	BL	BL	PASS
16	Silvery metal spring	ND	ND	ND	Ne	-	-	PASS
17	Golden metal sheet	69	ND	ND	Ne	-	-	PASS
18	Lamp-glass shell	52	ND	ND	Ne	-	-	PASS
19	Lamp-pin	ND	ND	ND	Ne	-	-	PASS
20	Lamp-metal wire	ND	ND	ND	Ne	-	-	PASS
21	Silvery metal strip	ND	ND	ND	Ne	-	-	PASS
22	Silvery metal strip-small screw	ND	ND	ND	Ne	-	-	PASS
23	Gear case-black plastic shell	BL	BL	BL	BL	BL	BL	PASS
24	Gear case-black plastic sleeve	BL	BL	BL	BL	BL	BL	PASS
25	Gear case-black plastic end cover	BL	BL	BL	BL	BL	BL	PASS
26	Gear case-metal shaft	ND	ND	ND	Ne	-	-	PASS
27	Gear case-metal wire	ND	ND	ND	Ne	-	-	PASS



QIMA (HANGZHOU) TESTING CO., LTD. ♦ 4-5/F A2 BLDG NO. 1213 HUOJU SOUTH ROAD PUYAN STREET BINJIANG DISTRICT HANGZHOU CHINA

♦ Email: Labtesting@qima.com ♦ Tel: (86) 571 8999 7158.

Test(s) marked with 'φ' was subcontracted to external laboratory.

The test result(s) and conclusion(s) in this report relate only to the sample(s) as received and method /regulation section(s) tested as described herein.

If it is not further specified in the report, the decision rule for stating conformity is based on the QIMA decision rule.

This test report may not be reproduced in whole or in part, without written approval of QIMA (Hangzhou) Testing Co., Ltd.

DETAILED RESULTS:

No.	Parts Name	Test Item (mg/kg)						Conclusion
		Pb	Cd	Hg	CrVI	PBBs	PBDEs	
28	Gear case-black plastic gear	BL	BL	BL	BL	BL	BL	PASS
29	Gear case-gray plastic gear	BL	BL	BL	BL	BL	BL	PASS
30	Gear case-gray plastic big gear	BL	BL	BL	BL	BL	BL	PASS
31	Gear case-white plastic gear	BL	BL	BL	BL	BL	BL	PASS
32	Gear case-white plastic big gear	BL	BL	BL	BL	BL	BL	PASS
33	Gear case-silvery metal screw	ND	ND	ND	Ne	-	-	PASS
34	Silvery metal big spring	ND	ND	ND	Ne	-	-	PASS
35	Silvery plastic button	BL	BL	BL	BL	BL	BL	PASS
36	Golden metal sleeve	98	ND	ND	Ne	-	-	PASS
37	Black plastic ring	BL	BL	BL	BL	BL	BL	PASS
38	Black plastic cell box	BL	BL	BL	BL	BL	BL	PASS
39	Golden metal rivet	126	ND	ND	Ne	-	-	PASS
40	Silvery metal small spring	ND	ND	ND	Ne	-	-	PASS
41	Golden electrode slice	56	ND	ND	Ne	-	-	PASS
42	Electrode slice-soldering tin	104	ND	ND	BL	-	-	PASS
43	Golden metal sheet	82	ND	ND	Ne	-	-	PASS
44	Red wire sheath	BL	BL	BL	BL	BL	BL	PASS
45	Blue wire sheath	BL	BL	BL	BL	BL	BL	PASS
46	Silvery metal screw	ND	ND	ND	Ne	-	-	PASS
47	Copper wire	ND	ND	ND	Ne	-	-	PASS
48	Motor-white plastic gear	BL	BL	BL	BL	BL	BL	PASS
49	Motor-silvery metal shell	ND	ND	ND	Ne	-	-	PASS
50	Motor-black silicon steel sheet	ND	ND	ND	Ne	-	-	PASS
51	Motor-metal gasket	ND	ND	ND	Ne	-	-	PASS
52	Motor-plastic gasket	BL	BL	BL	BL	BL	BL	PASS
53	Motor-silvery silicon steel sheet	ND	ND	ND	Ne	-	-	PASS
54	Motor-enamelled wire	ND	ND	ND	Ne	-	-	PASS
55	Motor-metal shaft	ND	ND	ND	Ne	-	-	PASS
56	Motor-white plastic holder	BL	BL	BL	BL	BL	BL	PASS
57	Motor-golden metal ring	ND	ND	ND	Ne	-	-	PASS
58	Motor-black ceramic wafer	BL	BL	BL	BL	BL	BL	PASS
59	Motor-metal copper sheet	24	ND	ND	Ne	-	-	PASS
60	Motor-white plastic sleeve	BL	BL	BL	BL	BL	BL	PASS
61	Motor-soldering tin	494	ND	ND	BL	-	-	PASS
62	Motor-white plastic end cover	BL	BL	BL	BL	BL	BL	PASS
63	Motor-electric brush	170	ND	ND	Ne	-	-	PASS
64	Motor-pin	ND	ND	ND	Ne	-	-	PASS
65	Motor-metal washer	ND	ND	ND	Ne	-	-	PASS
66	Motor- pin soldering tin	60	ND	ND	BL	-	-	PASS



QIMA (HANGZHOU) TESTING CO., LTD. ♦ 4-5/F A2 BLDG NO. 1213 HUOJU SOUTH ROAD PUYAN STREET BINJIANG DISTRICT HANGZHOU CHINA

♦ Email: Labtesting@qima.com ♦ Tel: (86) 571 8999 7158.

Test(s) marked with 'φ' was subcontracted to external laboratory.

The test result(s) and conclusion(s) in this report relate only to the sample(s) as received and method /regulation section(s) tested as described herein.

If it is not further specified in the report, the decision rule for stating conformity is based on the QIMA decision rule.

This test report may not be reproduced in whole or in part, without written approval of QIMA (Hangzhou) Testing Co., Ltd.

Parameter	Unit	Requirement	Method Detection Limit (MDL)
Lead (Pb)	mg/kg	1000	15
Cadmium (Cd)	mg/kg	100	15
Mercury (Hg)	mg/kg	1000	15
Chromium VI (Cr VI)	mg/kg	1000	15
Group PBBs	mg/kg	1000	20
Group PBDEs	mg/kg	1000	20

As specified by client, with XRF analysis toxic harmful substance content, All kinds of matrixes screening of the element is limited see chart (Unit: mg/kg)

Elements	Polymer material	Metal material/ Inorganic nonmetallic material	Electronic component
Lead (Pb)	$BL \leq (700-3\sigma) < X < (1300+3\sigma) \leq OL$	$BL \leq (700-3\sigma) < X < (1300+3\sigma) \leq OL$	$BL \leq (500-3\sigma) < X < (1500+3\sigma) \leq OL$
Cadmium (Cd)	$BL \leq (70-3\sigma) < X < (130+3\sigma) \leq OL$	$BL \leq (70-3\sigma) < X < (130+3\sigma) \leq OL$	$LOD < X < (150+3\sigma) \leq OL$
Mercury (Hg)	$BL \leq (700-3\sigma) < X < (1300+3\sigma) \leq OL$	$BL \leq (700-3\sigma) < X < (1300+3\sigma) \leq OL$	$BL \leq (500-3\sigma) < X < (1500+3\sigma) \leq OL$
Chromium (Cr)	$BL \leq (700-3\sigma) < X$	$BL \leq (700-3\sigma) < X$	$BL \leq (500-3\sigma) < X$
Bromine (Br)	$BL \leq (300-3\sigma) < X$	-	$BL \leq (250-3\sigma) < X$

Note:

- Unit: mg/kg= Milligrams per kilogram, 1mg/kg=1ppm=0.0001%
- MDL=Method Detection Limit
- "-"= Not Regulated or Not Applicable
- 3σ = Analysis shows that the instrument reproducibility
- BL = Below Limit by XRF screening;
OL = Over Limit by XRF screening.
- ND=Not Detected (< MDL), Result reported with wet chemical confirmation test with ICP-OES / GC-MS / UV-Vis
- Ne=Negative, Absence of Cr(VI), the concentration of Cr (VI) in sample solution is less than $0.10\mu\text{g}/\text{cm}^2$.
Po = Positive, Presence of Cr(VI), the concentration of Cr (VI) in sample solution is more than $0.13\mu\text{g}/\text{cm}^2$.
Result reported with wet chemical confirmation test with UV-Vis.
- "Results of XRF" is the result on total Br and total Cr while restricted substances are PBBs/PBDEs and Cr(VI).



DETAILED RESULTS:

Directive 2011/65/EU and it's amend regulation 2015/863/EU, Restriction of the Use of Certain Hazardous Substances (RoHS) (DBP, BBP, DEHP, DIBP)

Test Method: IEC 62321-8:2017
 Analytical Method: Gas Chromatography/Mass Spectrometry

Specimen No.	3+4+6	5+7+9	8+12	23+24+25	28+37+38	Limit (mg/kg)
Test Item	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	
DBP	ND	ND	ND	ND	ND	1000
BBP	ND	ND	ND	ND	ND	1000
DEHP	ND	ND	ND	ND	ND	1000
DIBP	ND	ND	ND	ND	ND	1000
Conclusion	PASS	PASS	PASS	PASS	PASS	

Specimen No.	29+30+62	31+32+48	35	44+45	52+56+60	Limit (mg/kg)
Test Item	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	
DBP	ND	ND	ND	ND	ND	1000
BBP	ND	ND	ND	ND	ND	1000
DEHP	ND	ND	ND	ND	ND	1000
DIBP	ND	ND	ND	ND	ND	1000
Conclusion	PASS	PASS	PASS	PASS	PASS	

Note:

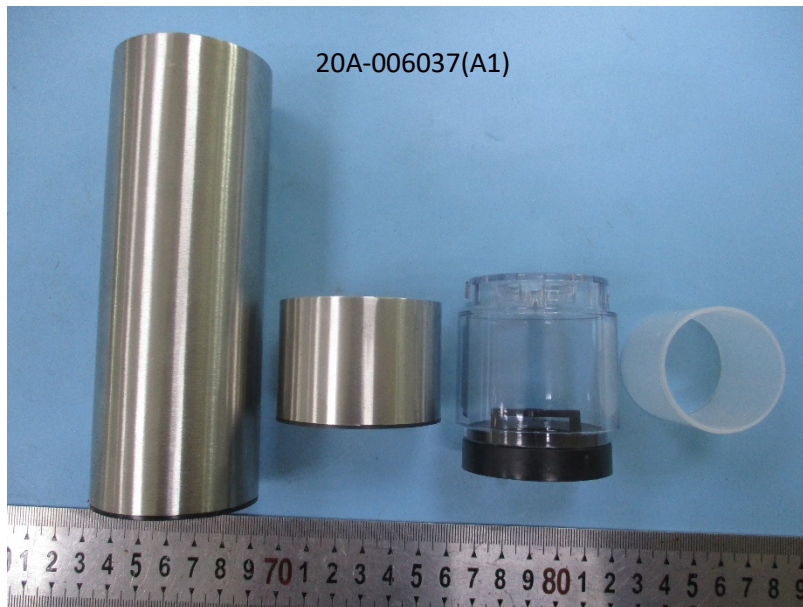
DBP = Dibutyl phthalate; BBP = Benzyl butyl phthalate; DEHP = Di-(2-ethylhexyl) phthalate
 DIBP = Di-iso-Butylphthalate Phthalate;
 mg/kg = Milligrams per kilogram
 ND = Not detected (Reporting Limit =150mg/kg)



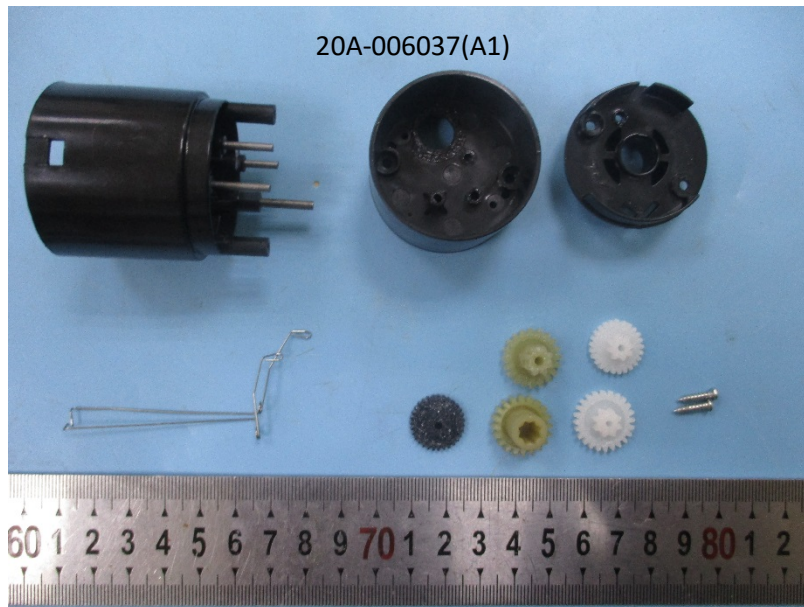
SAMPLE PHOTO:



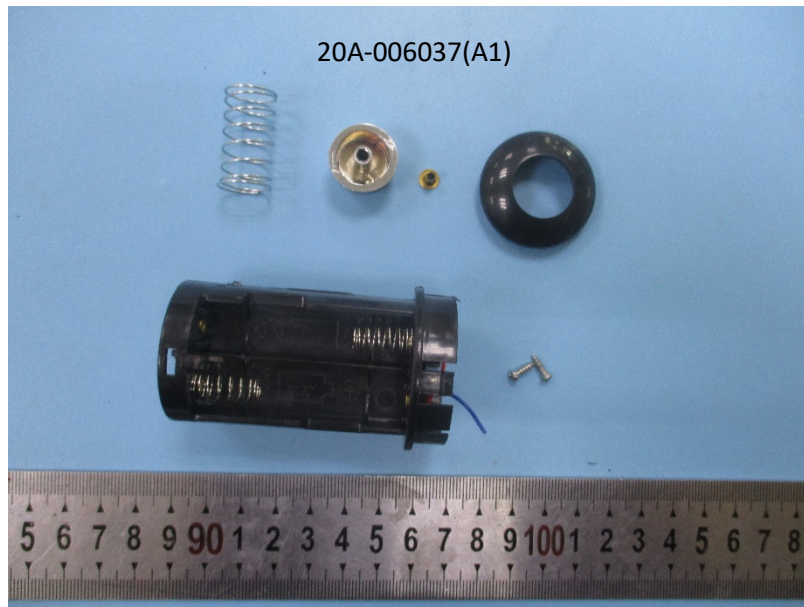
SAMPLE PHOTO:



SAMPLE PHOTO:



SAMPLE PHOTO:



SAMPLE PHOTO:



SAMPLE PHOTO:



SAMPLE PHOTO:



SAMPLE PHOTO:



-End Report-

