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Applicant: Mid Ocean Brands B.V.

Address: 7/F., Kings Tower, 111 King Lam Street, Cheung Sha Wan, Kowloon, Hong Kong

The following sample(s) and sample information was/were submitted and identified by client as:

Sample Name: Double wall flask

Model/Style/Item #: MO6327

Receiving Date: 1-Sep-2023

Test Period: From 1-Sep-2023 to 6-Sep-2023

Add Information:

#### **Test Summary:**

#	Test Item(s)	Reference Standard/Method	Result
1	Lead, Cadmium, Mercury, Hexavalent Chromium, PBBs, PBDEs, DBP, BBP, DEHP and DIBP EU RoHS Directive 2011/65/EU and its amendment directives (EU) 2015/863 (RoHS)	IEC 62321-3-1:2013 IEC 62321-4:2013+A1:2017 IEC 62321-5:2013 IEC 62321-6:2015 IEC 62321-7-1:2015 IEC 62321-7-2:2017 IEC 62321-8:2017	PASS

Signed for and on behalf of ST

Mark Mai (Technical Director)

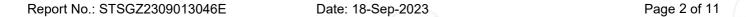
e-mail: stsgz@stsapp.com



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### Result:

## 1.1 EU RoHS Directive 2011/65/EU and its amendment directives on XRF IEC 62321-3-1:2013, Screening by X-ray Fluorescence Spectroscopy (XRF)

Seq. No.	Tested Part(s)	Results					
Seq. No.	resteu Fait(s)		Cd	Hg	Cr	Br	
1	Black plastic,lid(inner)	BL	BL	BL	BL	BL	
2	Brown silicone,seal ring	BL	BL	BL	BL	BL	
3	Transparent coating,bottle	BL	BL	BL	BL	BL	
4	Brown bamboo,bottle	BL	BL	BL	BL	BL	
5	Silvery metal,bottle	BL	BL	BL	BL	NA	
6	Silvery metal,strainer	BL	BL	BL	BL	NA	
7	Transparent black plastic,lid	BL	BL	BL	BL	BL	
8	Silvery metal,handle	BL	BL	BL	BL	NA	
9	Silvery metal,strainer holder	BL	BL	BL	BL	NA	
10	Silvery metal,lid	BL	BL	BL	BL	NA	
11	Silvery metal,lid(inner)	BL	BL	BL	BL	NA	
12	Silvery metal,bottom	BL	BL	BL	BL	NA	
13	Silvery textile,washer	BL	BL	BL	BL	BL	
14	Matt-white foam,washer	BL	BL	BL	BL	BL	
15	Transparent plastic,film	BL	BL	BL	BL	BL	
16	Black printed white plastic,sticker	BL	BL	BL	BL	BL	
17	White plastic,base	BL	BL	BL	BL	BL	
18	Black body,thermistor	BL	BL	BL	BL	BL	
19	Red enameled wire	BL	BL	BL	BL	BL	
20	Yellow body,LED	BL	BL	BL	BL	Х	
21	Transparent body,LED	BL	BL	BL	BL	Х	
22	Black body,IC	BL	BL	BL	BL	BL	
23	Black body,diode	BL	BL	BL	BL	BL	
24	Brown body,capacitor	BL	BL	BL	BL	BL	

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25	Silvery metal,contact plate	BL	BL	BL	BL	NA
26	Black PCB	BL	BL	BL	BL	Х
27	Silvery metal,solder	BL	BL	BL	BL	NA
28	Transparent yellow glue,holder	BL	BL	BL	BL	BL
29	White dry glue	BL	BL	BL	BL	BL

#### Remark:

(1) Results were obtained by XRF for primary screening, and further chemical testing by ICP (for Cd, Pb, Hg), UV-Vis (for Cr(VI)) and GC-MS (for PBBs, PBDEs) are recommended to be performed, if the concentration exceeds the below warning value according to IEC 62321-3-1:2013.

Element	Unit	Non-metal	Metal	Composite Material
Cd	mg/kg	BL≤70-3σ< X <130+3σ≤OL	BL≤70-3σ< X <130+3σ≤OL	BL≤50-3σ< X <150+3σ≤OL
Pb	mg/kg	BL≤700-3σ< X <1300+3σ≤OL	BL≤700-3σ< X <1300+3σ≤ OL	BL≤500-3σ< X <1500+3σ≤OL
Hg	mg/kg	BL≤700-3σ< X <1300+3σ≤OL	BL≤700-3σ< X <1300+3σ≤OL	BL≤500-3σ< X <1500+3σ≤OL
Cr	mg/kg	BL≤700-3σ< X	BL≤700-3σ< X	BL≤500-3σ< X
Br	mg/kg	BL≤300-3σ< X		BL≤250-3σ< X

#### Note:

BL = Below Limit

OL = Over Limit

X = Inconclusive

NA = Not Applicable

- (2) The XRF screening test for RoHS elements The reading may be different to the actual content in the sample be of non-uniformity composition.
- (3) The maximum permissible limit is quoted from the document 2011/65/EU and its amendment directives (EU) 2015/863:

RoHS Restricted Substances	Maximum Concentration Value (mg/kg) (by weight in homogenous materials)
Cadmium (Cd)	100

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Lead (Pb)	1000
Mercury (Hg)	1000
Hexavalent Chromium (Cr(VI))	1000
Polybrominated biphenyls (PBBs)	1000
Polybrominated diphenyl ethers (PBDEs)	1000

#### (4) Disclaimers:

This XRF Screening report is for reference purposes only. The applicant shall make its/his/her own judgment as to whether the information provided in this XRF screening report is sufficient for its/his/her purposes. The result shown in this XRF screening report will differ based on various factors, including but not limited to, the sample size, thickness, area, surface flatness, equipment parameters and matrix effect(e.g. plastic, rubber, metal, glass, ceramic etc.). Further wet chemical pre-treatment with relevant chemical equipment analysis are required to obtain quantitative data.

(5) The selection of test portions was recommended by the client and the conclusion of chemical test is only for the selected portions.

### 1.2 Polybrominated Biphenyls and Polybrominated Diphenyl Ethers (PBBs and PBDEs) IEC 62321-6:2015, solvent extract and determined by GC/MS

Company			Material				
	Compound	20	20 21		(mg/kg)	(mg/kg)	
1	Monobromo biphenyl	N.D.	N.D.	N.D.	-	50	
2	Dibromo biphenyl	N.D.	N.D.	N.D.	-	50	
3	Tribromo biphenyl	N.D.	N.D.	N.D.	-	50	
4	Tetrabromo biphenyl	N.D.	N.D.	N.D.	_	50	
5	Pentabromo biphenyl	N.D.	N.D.	N.D.	1	50	
6	Hexabromo biphenyl	N.D.	N.D.	N.D.	<u> </u>	50	
7	Heptabromo biphenyl	N.D.	N.D.	N.D.	-	50	
8	Octabromo biphenyl	N.D.	N.D.	N.D.	-	50	
9	Nonabromo biphenyl	N.D.	N.D.	N.D.	- (	50	
10	Decabromo biphenyl	N.D.	N.D.	N.D.	- 4	50	
11	Monobromo diphenyl ether	N.D.	N.D.	N.D.	-	50	

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## **REPORT**

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	Conclusion	PASS	PASS	PASS	-	-
22	Sum of PBDEs	N.D.	N.D.	N.D.	1000	-
21	Sum of PBBs	N.D.	N.D.	N.D.	1000	-
20	Decabromo diphenyl ether	N.D.	N.D.	N.D.	-	50
19	Nonabromo diphenyl ether	N.D.	N.D.	N.D.	-	50
18	Octabromo diphenyl ether	N.D.	N.D.	N.D.	-	50
17	Heptabromo diphenyl ether	N.D.	N.D.	N.D.	-	50
16	Hexabromo diphenyl ether	N.D.	N.D.	N.D.	-	50
15	Pentabromo diphenyl ether	N.D.	N.D.	N.D.	-	50
14	Tetrabromo diphenyl ether	N.D.	N.D.	N.D.	-	50
13	Tribromo diphenyl ether	N.D.	N.D.	N.D.	(-)	50
12	Dibromo diphenyl ether	N.D.	N.D.	N.D.	(-	50

Remark(s): (a) mg/kg: milligram per kilogram (b) RL: Report limit (c) N.D.: Not detected (result is less than RL)

#### 1.3

Phthalates – (DBP, BBP, DEHP, DIBP) IEC 62321-8:2017, Solvent extract and determined by GC/MS

O amazana d		d	Material				Limit (9/)	DI (0/)
	Compound		1+7	2	3	13	Limit (%)	RL(%)
1	DBP	Dibutylphthalate CAS# 84-74-2	N.D.	N.D.	N.D.	N.D.	0.1	0.005
2	BBP	Benzylbutylphthalate CAS# 85-68-7	N.D.	N.D.	N.D.	N.D.	0.1	0.005
3	DEHP	Diethylhexylphthalate CAS# 117-81-7	N.D.	N.D.	N.D.	N.D.	0.1	0.005
4	DIBP	Diisobutyl phthalate CAS# 84-69-5	N.D.	N.D.	N.D.	N.D.	0.1	0.005
Conclusion		PASS	PASS	PASS	PASS	-	-	

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Commonad			Material				Limit (9/)	DI (0()
	Compound		14	15	16	17	Limit (%)	RL(%)
1	DBP	Dibutylphthalate CAS# 84-74-2	N.D.	N.D.	N.D.	N.D.	0.1	0.005
2	BBP	Benzylbutylphthalate CAS# 85-68-7	N.D.	N.D.	N.D.	N.D.	0.1	0.005
3	DEHP	Diethylhexylphthalate CAS# 117-81-7	N.D.	N.D.	N.D.	N.D.	0.1	0.005
4	DIBP	Diisobutyl phthalate CAS# 84-69-5	N.D.	N.D.	N.D.	N.D.	0.1	0.005
	Conclusion		PASS	PASS	PASS	PASS	-	-

Compound			Material				l imit (9/)	DI (9/)
	Compound		18+20+21	19	22+23+24	26	Limit (%)	RL(%)
1	DBP	Dibutylphthalate CAS# 84-74-2	N.D.	N.D.	N.D.	N.D.	0.1	0.005
2	ВВР	Benzylbutylphthalate CAS# 85-68-7	N.D.	N.D.	N.D.	N.D.	0.1	0.005
3	DEHP	Diethylhexylphthalate CAS# 117-81-7	N.D.	N.D.	N.D.	N.D.	0.1	0.005
4	DIBP	Diisobutyl phthalate CAS# 84-69-5	N.D.	N.D.	N.D.	N.D.	0.1	0.005
	Conclusion		PASS	PASS	PASS	PASS	-	-

	Compound		Mate	Limit (0/)	DI (9/)	
			28	29	Limit (%)	RL(%)
1	DBP	Dibutylphthalate CAS# 84-74-2	N.D.	N.D.	0.1	0.005
2	BBP	Benzylbutylphthalate CAS# 85-68-7	N.D.	N.D.	0.1	0.005
3	DEHP	Diethylhexylphthalate CAS# 117-81-7	N.D.	N.D.	0.1	0.005
4	DIBP	Diisobutyl phthalate CAS# 84-69-5	N.D.	N.D.	0.1	0.005
	Conclusion		PASS	PASS	-	-

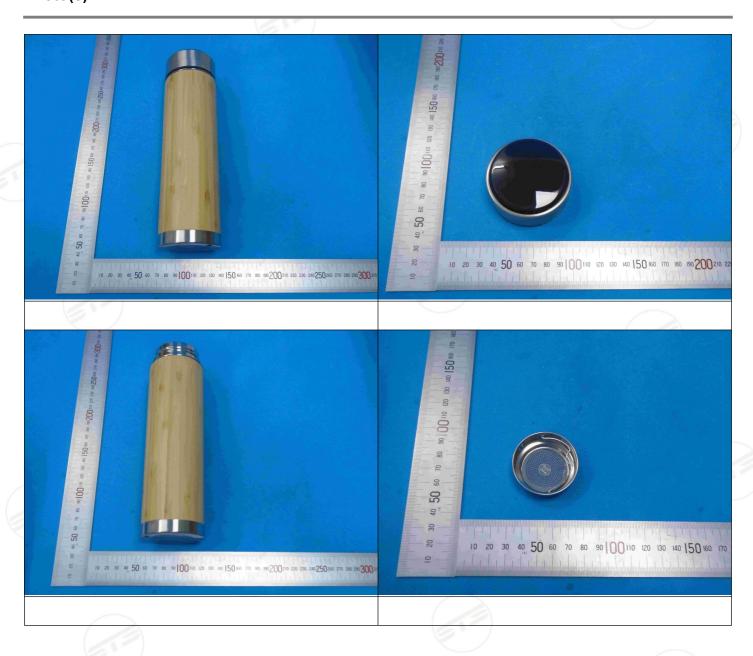
Remark(s): (a) RL: Report limit (b) N.D.: Not detected (result is less than RL)

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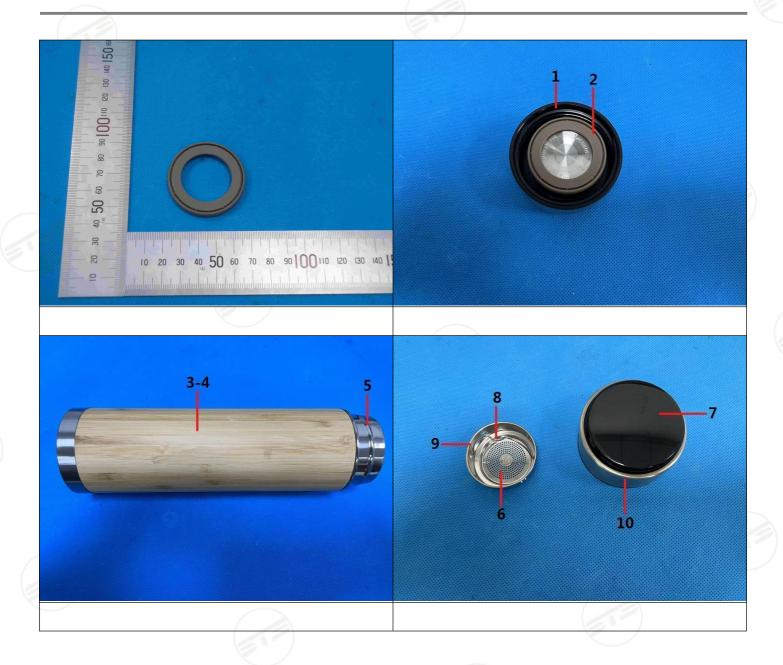
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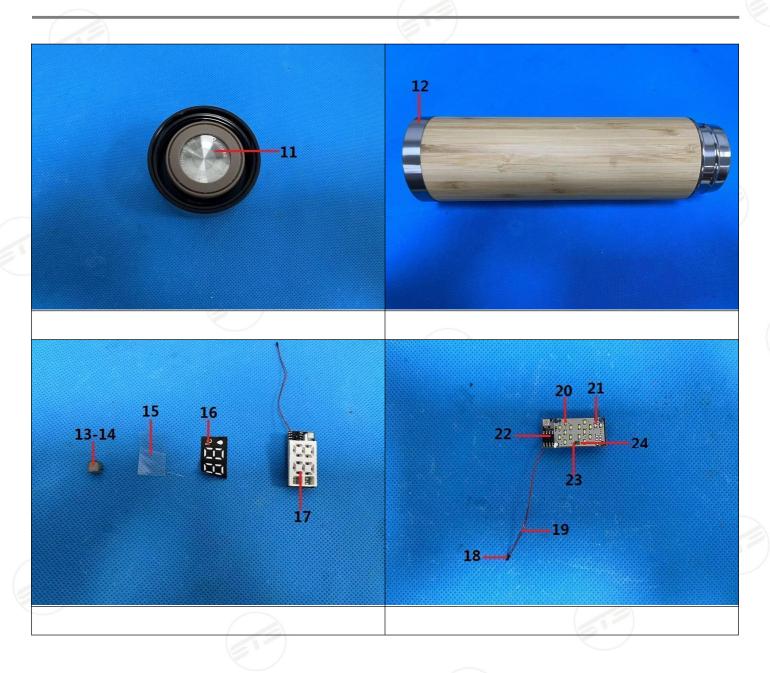
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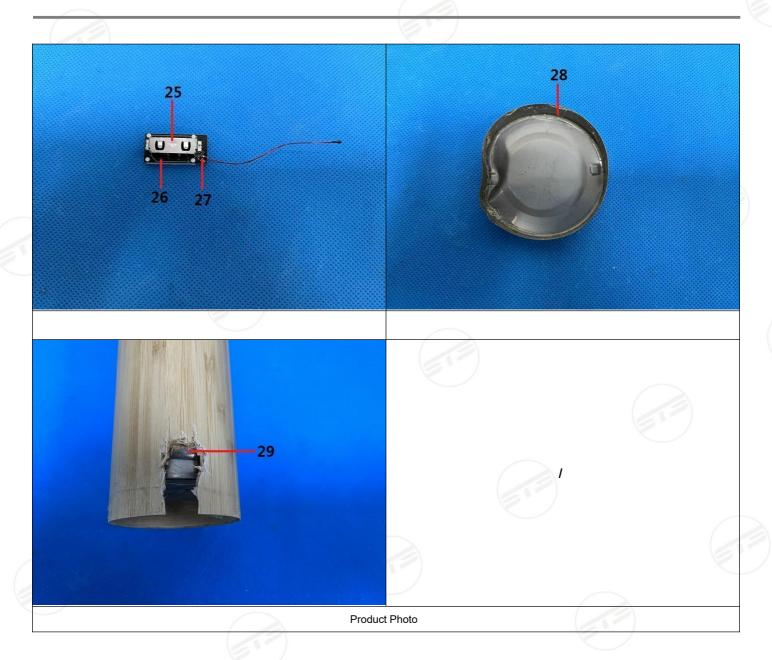
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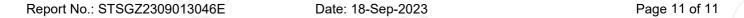
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