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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: Bottle with touch thermometer

Model/Style/Item #: MO9796

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)

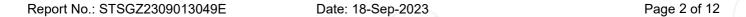
e-mail: stsgz@stsapp.com



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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)

Soa No	Tooted Part(a)			Result	s	
Seq. No.	Tested Part(s)	Pb	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	Silvery metal, bottle body	BL	BL	BL	BL	NA
4	Silvery metal,strainer	BL	BL	BL	BL	NA
5	Transparent black plastic,lid	BL	BL	BL	BL	BL
6	Silvery metal,lid(inner)	BL	BL	BL	BL	NA
7	Black coating, bottle body	BL	BL	BL	BL	BL
8	Silvery metal,strainer handle	BL	BL	BL	BL	NA
9	Silvery metal,strainer holder	BL	BL	BL	BL	NA
10	Silvery textile,washer	BL	BL	BL	BL	BL
11	Matt-white foam,washer	BL	BL	BL	BL	BL
12	Transparent plastic,film	BL	BL	BL	BL	BL
13	Black printed white plastic,sticker	BL	BL	BL	BL	BL
14	White plastic,base	BL	BL	BL	BL	BL
15	Black body,thermistor	BL	BL	BL	BL	BL
16	Red enameled wire	BL	BL	BL	BL	BL
17	Yellow body,LED	BL	BL	BL	BL	Х
18	Transparent body,LED	BL	BL	BL	BL	Х
19	Black body,IC	BL	BL	BL	BL	BL
20	Black body,diode	BL	BL	BL	BL	BL
21	Brown body,capacitor	BL	BL	BL	BL	BL
22	Silvery metal,contact plate	BL	BL	BL	BL	NA
23	Black PCB	BL	BL	BL	BL	Х
24	Silvery metal,solder	BL	BL	BL	BL	NA

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25	Silvery metal,lid(outer)	BL	BL	BL	BL	NA
26	Black plastic, bottom	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
Lead (Pb)	1000
Mercury (Hg)	1000
Hexavalent Chromium (Cr(VI))	1000

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D	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

				\			
	0		Material		Limit	RL	
	Compound	oound 17		23	(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.	-	50	
6	Hexabromo biphenyl	N.D.	N.D.	N.D.	-	50	
7	Heptabromo biphenyl	N.D.	N.D.	N.D.		50	
8	Octabromo biphenyl	N.D.	N.D.	N.D.	<u> </u>	50	
9	Nonabromo biphenyl	N.D.	N.D.	N.D.	-	50	
10	Decabromo biphenyl	N.D.	N.D.	N.D.	-	50	
11	Monobromo diphenyl ether	N.D.	N.D.	N.D.	- (50	
12	Dibromo diphenyl ether	N.D.	N.D.	N.D.	- (50	
13	Tribromo diphenyl ether	N.D.	N.D.	N.D.	-	50	

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

Remark(s): (a) mg/kg: milligram per kilogram (b) RL: Report limit

(c) N.D.: Not detected (result is less than RL)

Phthalates - (DBP, BBP, DEHP, DIBP)

IEC 62321-8:2017, Solvent extract and determined by GC/MS

					1.2				
	Compound -			Mate	erial		Limit (9/)		
			1+5	2	7	10	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				RL(%)	
	Compound		11	13	12+14	15+17+18	Limit (%)	KL(70)
1	DBP	Dibutylphthalate CAS# 84-74-2	N.D.	N.D.	N.D.	N.D.	0.1	0.005

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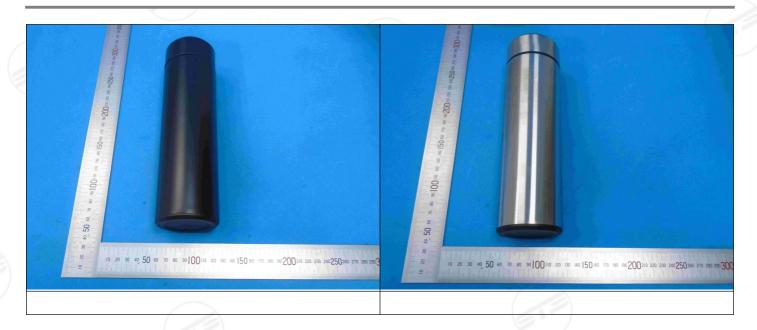
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	Conclus	sion	PASS	PASS	PASS	PASS	-	-
4	DIBP	Diisobutyl phthalate CAS# 84-69-5	N.D.	N.D.	N.D.	N.D.	0.1	0.005
3	DEHP	Diethylhexylphthalate CAS# 117-81-7	N.D.	N.D.	N.D.	N.D.	0.1	0.005
2	ВВР	Benzylbutylphthalate CAS# 85-68-7	N.D.	N.D.	N.D.	N.D.	0.1	0.005

	Compound			Material Limit (%)			DI (0/)	
			16	19+20+21	23	26	LIIIII (%)	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	-	-

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

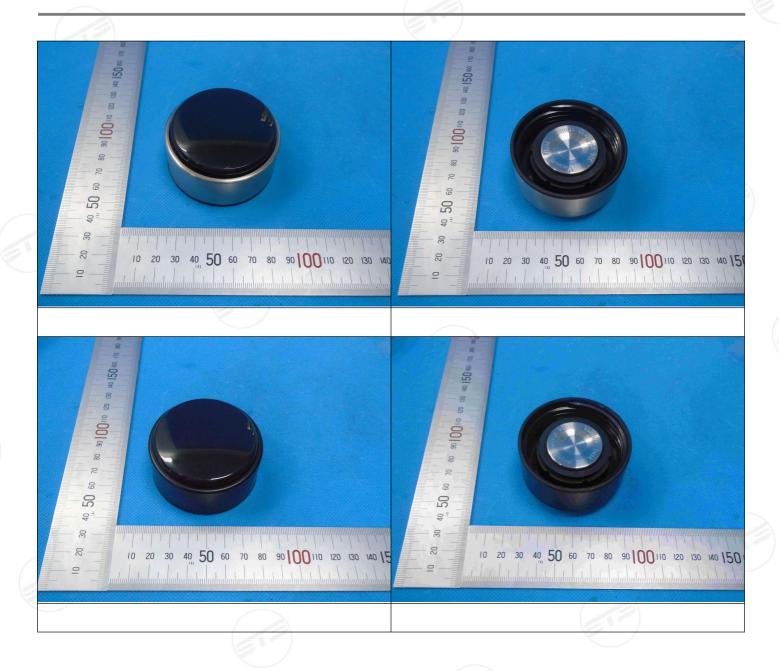
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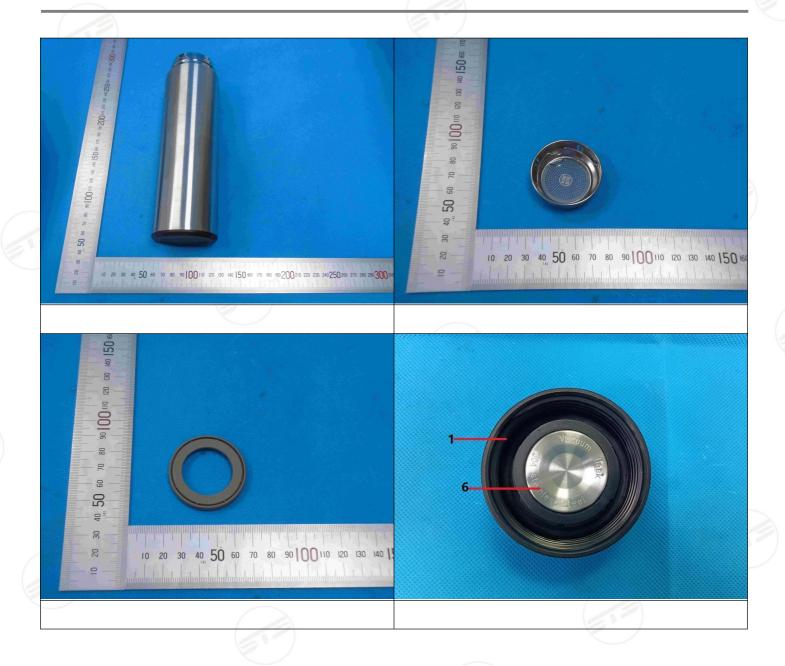
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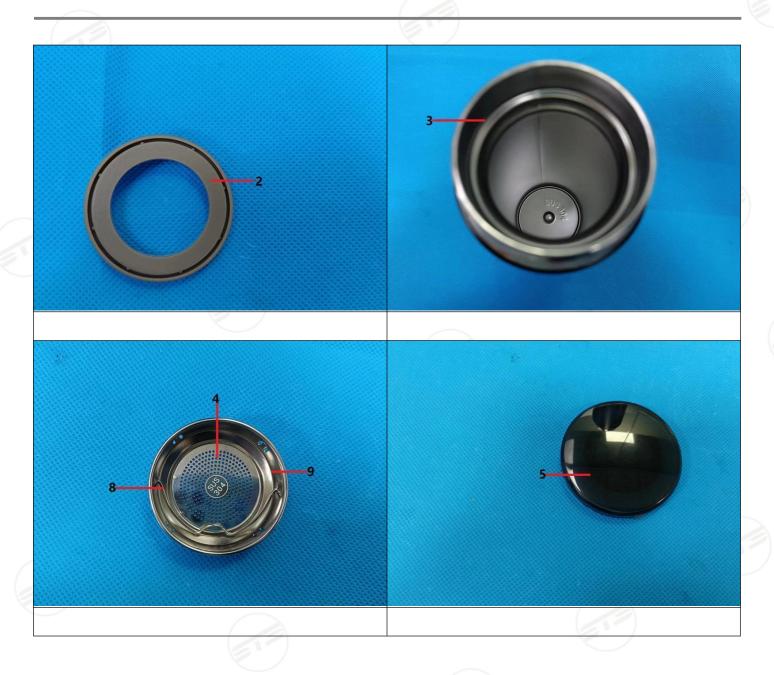
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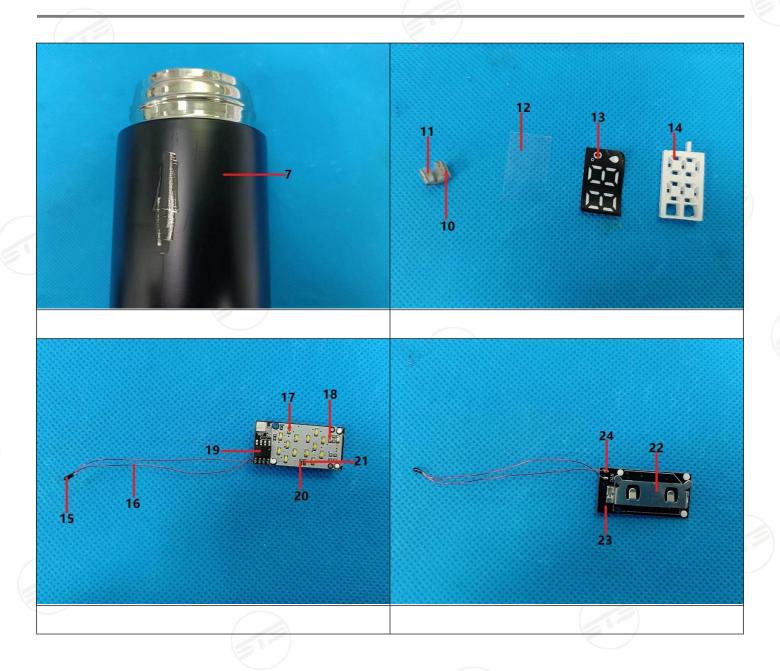
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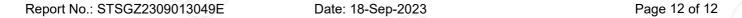
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