



# TEST REPORT

**Reference No.** ..... : WTF21F11130387C  
**Applicant** ..... : Mid Ocean Brands B.V.  
**Address** ..... : 7/F., Kings Tower, 111 King Lam Street, Cheung Sha Wan, Kowloon, Hong Kong  
**Manufacturer**..... : 114276  
**Sample Name**..... : Aluminum bottle with hanger  
**Model No.**..... : MO6469  
**Test Requested**..... : 1) Determination of Lead content in the submitted sample in accordance with REACH regulation Annex XVII Entries 63 (EC) No. 1907/2006 and the amendment No. 836/2012 and (EU) 2015/628  
2) Determination of Cadmium content in the submitted sample in accordance with REACH regulation Annex XVII Entries 23 (EC) No. 1907/2006 and the amendment No. 552/2009, No. 494/2011, No. 835/2012 and (EU) 2016/217  
3) Determination of specified Phthalates content according to Annex XVII Items 51 & 52 of the REACH Regulation (EC) No. 1907/2006 & Amendment No. 552/2009 & No. 2018/2005  
4) Client's requirements - Dishwasher safe test.  
**Test Method** ..... : Please refer to next page (s)  
**Test Conclusion** ..... : Please refer to next page (s)  
**Date of Receipt sample**..... : 2021-11-26  
**Date of Test**..... : 2021-11-26 to 2021-12-07  
**Date of Issue**..... : 2021-12-07  
**Test Result**..... : Please refer to next page (s)  
**Note** ..... : As specified by client, only test the designated sample.

## Remarks:

The results shown in this test report refer only to the sample(s) tested; this test report cannot be reproduced, except in full, without prior written permission of the company. The report would be invalid without specific stamp of test institute and the signatures of compiler and approver.

If the report is not stamped with the accreditation recognized seal, it will only be used for scientific research, education, and internal quality control activities, and is not used for the purpose of issuing supporting data to the society.

## Prepared By:

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**Test Result:****1) Lead (Pb)**

Test Method: With reference to IEC 62321-5:2013, the analysis was performed by ICP-OES.

Test Item	LOQ (mg/kg)	Results (mg/kg)			Limit (mg/kg)
		No.1+No.2+No.7	No.3+No.4+No.9	No.5+No.6+No.8	
Lead(Pb)	2	ND*	ND*	ND*	500
<b>Conclusion</b>	--	<b>Pass</b>	<b>Pass</b>	<b>Pass</b>	--

Test Item	LOQ (mg/kg)	Results (mg/kg)				Limit (mg/kg)
		No.10	No.11	No.12	No.13+No.14	
Lead(Pb)	2	ND	ND	ND	ND*	500
<b>Conclusion</b>	--	<b>Pass</b>	<b>Pass</b>	<b>Pass</b>	<b>Pass</b>	--

**Note:**

- (1) mg/kg = milligram per kilogram
- (2) ND = Not Detected (lower than LOQ)
- (3) LOQ = Limit of quantitation
- (4) Limit of Lead was quoted from REACH regulation Annex XVII Item 63 (EC) No. 1907/2006 and the amendment No. 836/2012 and (EU) 2015/628.
- (5) "\*" = Results are calculated by the minimum weight of mixed components.

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## 2) Cadmium (Cd)

Test Method: With reference to IEC 62321-5:2013, the analysis was performed by ICP-OES.

Test Item	LOQ (mg/kg)	Results (mg/kg)		
		No.1+No.2+No.7	No.3+No.4+No.9	No.5+No.6+No.8
Cadmium(Cd)	2	ND*	ND*	ND*
<b>Conclusion</b>	--	<b>Pass</b>	<b>Pass</b>	<b>Pass</b>

Test Item	LOQ (mg/kg)	Results (mg/kg)			
		No.10	No.11	No.12	No.13+No.14
Cadmium(Cd)	2	ND	ND	ND	ND*
<b>Conclusion</b>	--	<b>Pass</b>	<b>Pass</b>	<b>Pass</b>	<b>Pass</b>

### Note:

- (1) mg/kg = milligram per kilogram
- (2) ND = Not Detected (lower than LOQ)
- (3) LOQ = Limit of quantitation
- (4) Limit of Cadmium according to REACH regulation Annex XVII Item 23 (EC) No. 1907/2006 and the amendment No. 552/2009, No. 494/2011 and No. 835/2012 and (EU) 2016/217.

Category	Limit (mg/kg)
Wet paint	100
Surface coating	1000
Plastic	100
Metal parts of jewellery and hair accessories	100

- (5) "\*" = Results are calculated by the minimum weight of mixed components.



### 3) Phthalates

Test Method: With reference to EN14372:2004, by Gas Chromatographic-Mass Spectrometric (GC-MS) analysis.

Test Items	LOQ (%)	Results (%)		Limit (%)
		No.1+No.2+No.7	No.3+No.4+No.9	
Benzyl butyl phthalate (BBP)	0.005	ND*	ND*	sum of four phthalates < 0.1
Di (2-ethyl hexyl)- phthalate (DEHP)	0.005	ND*	ND*	
Dibutyl phthalate (DBP)	0.005	ND*	ND*	
Diisobutyl phthalate (DIBP)	0.005	ND*	ND*	
Diisodecyl phthalate (DIDP)	0.01	ND*	ND*	sum of three phthalates < 0.1
Diisononyl phthalate (DINP)	0.01	ND*	ND*	
Di-n-octyl phthalate (DNOP)	0.005	ND*	ND*	
<b>Conclusion</b>	--	<b>Pass</b>	<b>Pass</b>	--

Test Items	LOQ (%)	Results (%)		Limit (%)
		No.5+No.6+No.8	No.13+No.14	
Benzyl butyl phthalate (BBP)	0.005	ND*	ND*	sum of four phthalates < 0.1
Di (2-ethyl hexyl)- phthalate (DEHP)	0.005	ND*	ND*	
Dibutyl phthalate (DBP)	0.005	ND*	ND*	
Diisobutyl phthalate (DIBP)	0.005	ND*	ND*	
Diisodecyl phthalate (DIDP)	0.01	ND*	ND*	sum of three phthalates < 0.1
Diisononyl phthalate (DINP)	0.01	ND*	ND*	
Di-n-octyl phthalate (DNOP)	0.005	ND*	ND*	
<b>Conclusion</b>	--	<b>Pass</b>	<b>Pass</b>	--



Test Items	LOQ (%)	Results (%)			Limit (%)
		No.10	No.11	No.12	
Benzyl butyl phthalate (BBP)	0.005	ND	ND	ND	sum of four phthalates < 0.1
Di (2-ethyl hexyl)- phthalate (DEHP)	0.005	ND	ND	ND	
Dibutyl phthalate (DBP)	0.005	ND	ND	ND	
Diisobutyl phthalate (DIBP)	0.005	ND	ND	ND	
Diisodecyl phthalate (DIDP)	0.01	ND	ND	ND	sum of three phthalates < 0.1
Diisononyl phthalate (DINP)	0.01	ND	ND	ND	
Di-n-octyl phthalate (DNOP)	0.005	ND	ND	ND	
<b>Conclusion</b>	--	<b>Pass</b>	<b>Pass</b>	<b>Pass</b>	--

**Note:**

DBP= Dibutyl phthalate

BBP= Benzyl butyl phthalate

DEHP= Bis-(2-ethylhexyl)- phthalate

DINP= Di-isononyl phthalate

DNOP= Di-n-octyl phthalate

DIDP= Di-isodecyl phthalate

DIBP= Diisobutyl phthalate

(1) % = percentage by weight

(2) ND = Not Detected or lower than limit of quantitation

(3) LOQ = Limit of quantitation

(4) "&lt;" = less than

(5) The above limit was quoted according to Annex XVII Items 51 & 52 of the REACH Regulation (EC) No. 1907/2006 & Amendment No. 552/2009 & No. 2018/2005 (formerly known as Directive 2005/84/EC) for phthalate content in toys and child care articles.

(6) "\*" = Results are calculated by the minimum weight of mixed components.



#### 4) Dishwasher safe test (In House Method)

No. of Specimen	:	1 piece for testing. Remains as control sample
No. of Cycles	:	(10) cycles
Dishwasher	:	Siemens SD6P1S
Detergent Brand	:	Cascade
Washing condition	:	1. Cycle Time : ~ 90 Minutes. 2. Cycle Water Temperature : Main Wash ~ 140°F (60°C) Rinse ~ 161°F (72°C) 3. Location inside dishwasher : Bottom rack
Testing Procedure	:	1) Visually inspect sample and record any aesthetic defects. 2) Load into the dishwasher and run the wash cycle as per the above condition. 3) Examine from a distance of ~ 30cm and record any difference as compared with the control sample. 4) Repeat 2) ~ 3) until the required number of cycle is completed.
Test Requirement	:	No discoloration, deformation, staining of water (water mark), or substantial deterioration of item's appearance and/or function.
Conclusion(s)	:	<b>PASS</b> 1. No noticeable change in appearance / size was found on the sample(s) 2. The tested sample(s) remained functional

#### Test Specimen Description:

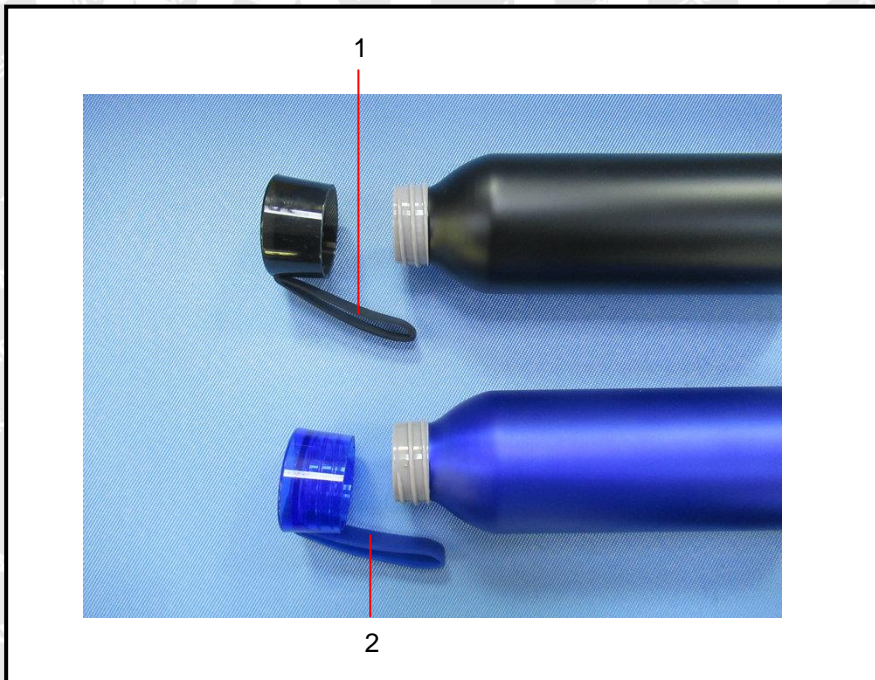
- No.1: Black rubber sheet
- No.2: Blue rubber sheet
- No.3: Black plastic cover
- No.4: Blue plastic cover
- No.5: Black coating
- No.6: Blue coating
- No.7: White rubber sheet
- No.8: White coating
- No.9: Transparent plastic cover
- No.10: Grey transparent plastic cover
- No.11: Grey rubber sheet
- No.12: Silvery coating
- No.13: Grey plastic parts
- No.14: White semi-transparent silica gel ring

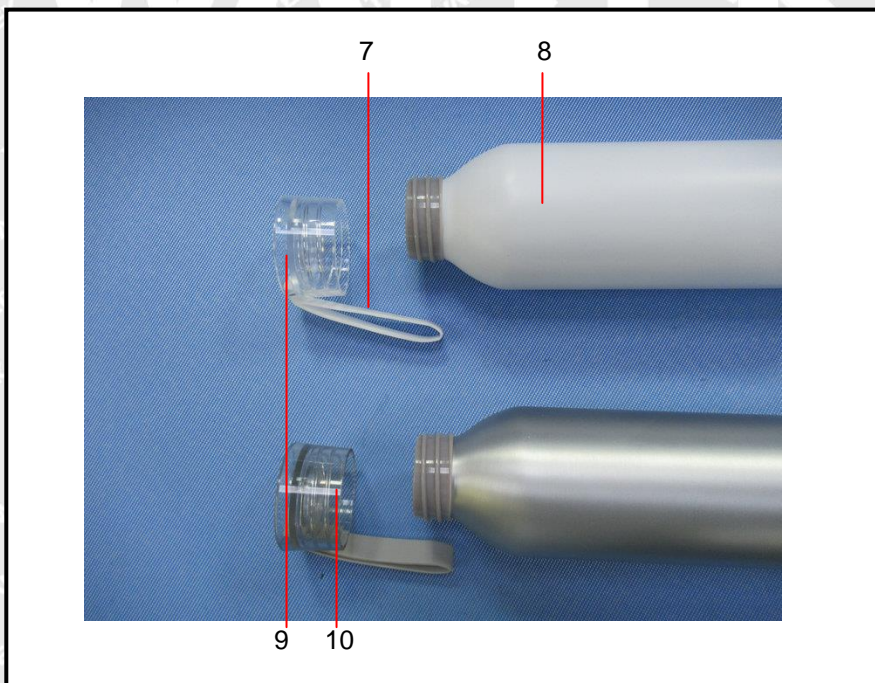
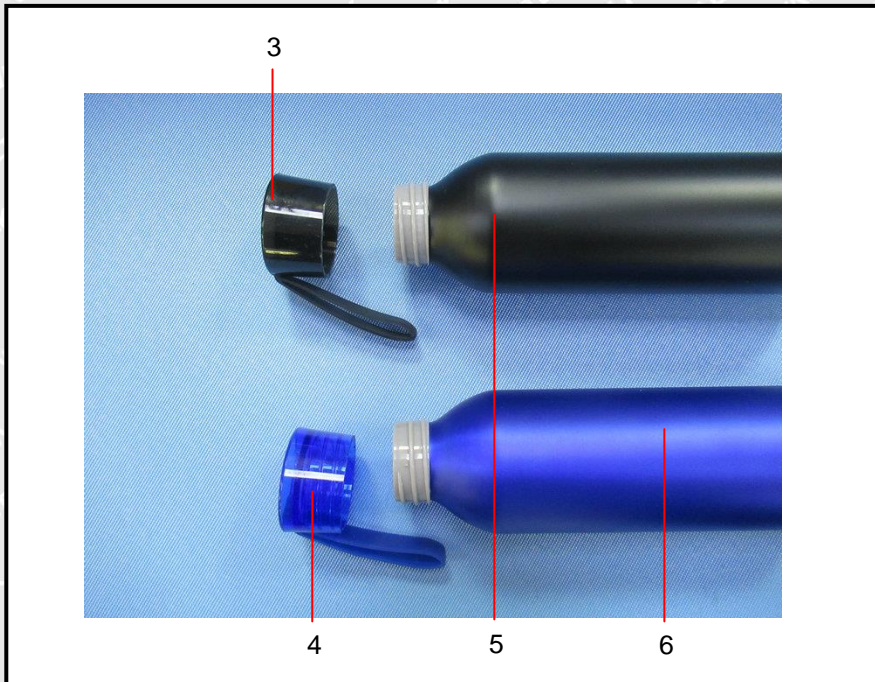


**Sample photo:**

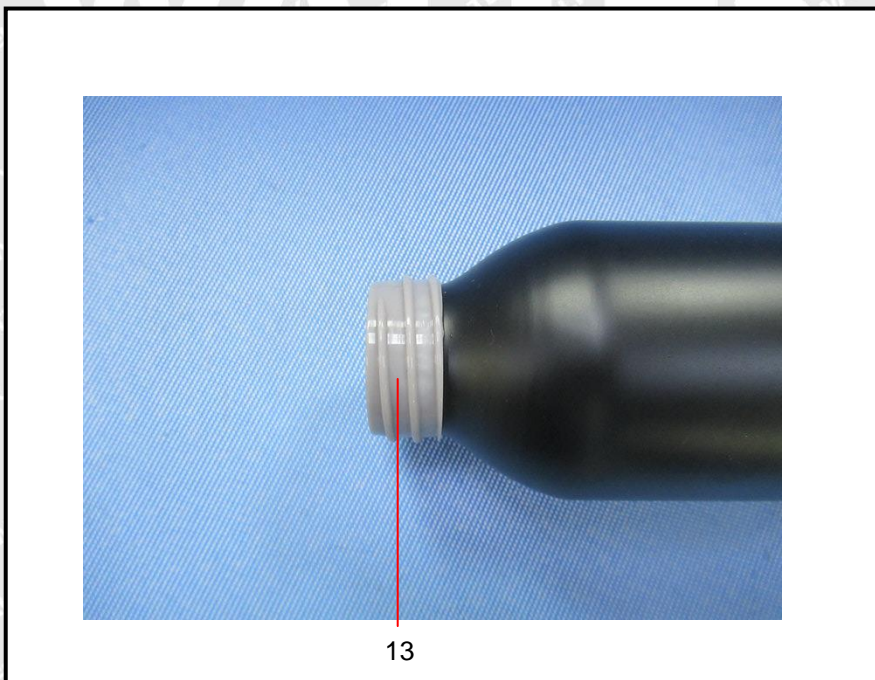
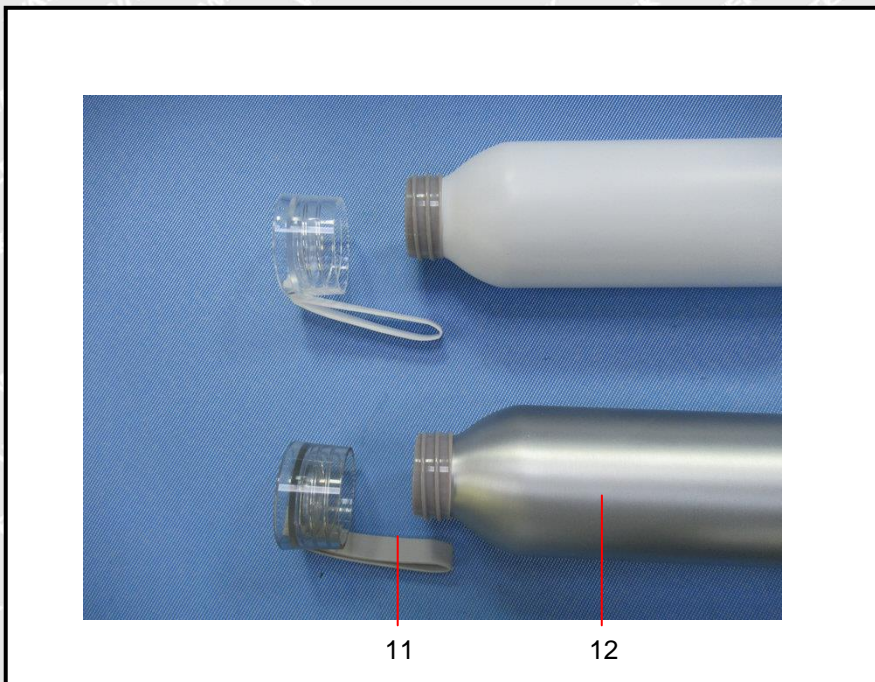


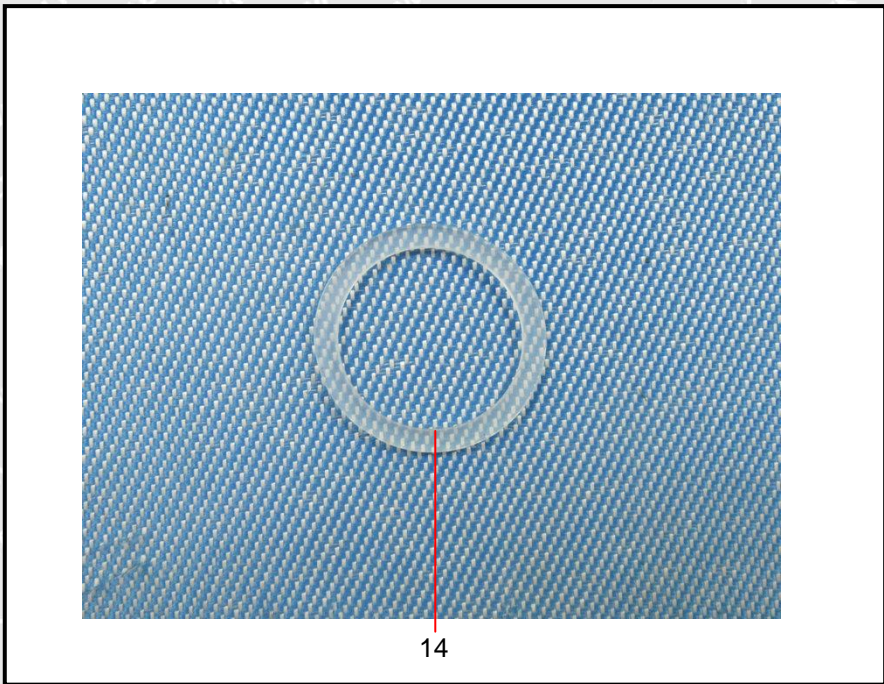
**Photographs of parts tested:**











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===== End of Report =====

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