TEST REPORT

Reference No.	:	WTF20F03012813C
Applicant	:	Mid Ocean Brands B.V.
Address	:	7/F., Kings Tower, 111 King Lam Street, Cheung Sha Wan, Kowloon, Hong Kong
Manufacturer	:	116662
Sample Name	:	Bamboo ballpen in bamboo box
Model No.	:	MO9912
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) As specified by client, determination of the free and hydrolysed formaldehyde content in submitted sample
Test Method	:	Please refer to next page (s)
Test Conclusion	:	Please refer to next page (s)
Date of Receipt sample	:	2020-03-24
Date of Test	:	2020-03-24 to 2020-03-27
Date of Issue	:	2020-03-27
Test Result	:	Please refer to next page (s)

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.

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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	MDL (mg/kg)	Results (mg/kg)		Limit (mg/kg)
		No.1+No.4+No.5	No.2+No.9	
Lead(Pb)	2	ND*	ND*	500
Conclusion	--	**Pass**	**Pass**	--

Test Item	MDL (mg/kg)	Results (mg/kg)			Limit (mg/kg)
		No.3+No.6	No.7	No.8	
Lead(Pb)	2	ND*	ND	ND	500
Conclusion	--	**Pass**	**Pass**	**Pass**	--

Note:

(1) mg/kg = milligram per kilogram

(2) ND = Not Detected (lower than MDL)

(3) MDL = Method Detection Limit

(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.

2) Cadmium (Cd)

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

Test Item	MDL (mg/kg)	Results (mg/kg)
		No.8
Cadmium(Cd)	2	ND
Conclusion	--	**Pass**

Note:

(1) mg/kg = milligram per kilogram

(2) ND = Not Detected (lower than MDL)

(3) MDL = Method Detection Limit

(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

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3) Formaldehyde

Test Method: With reference to EN717-3:1996, analysis was performed by UV-VIS

Test Item	Unit	Result		MDL	Client's Limit
		No.2	No.9		
Formaldehyde (CH_2O)	mg/kg	ND	ND	10	80
Conclusion	--	**Pass**	**Pass**	--	--

Note:

- ND = Not detected or less than the method detection limit
- mg/kg =milligram per kilogram=ppm
- MDL= Method Detection Limit
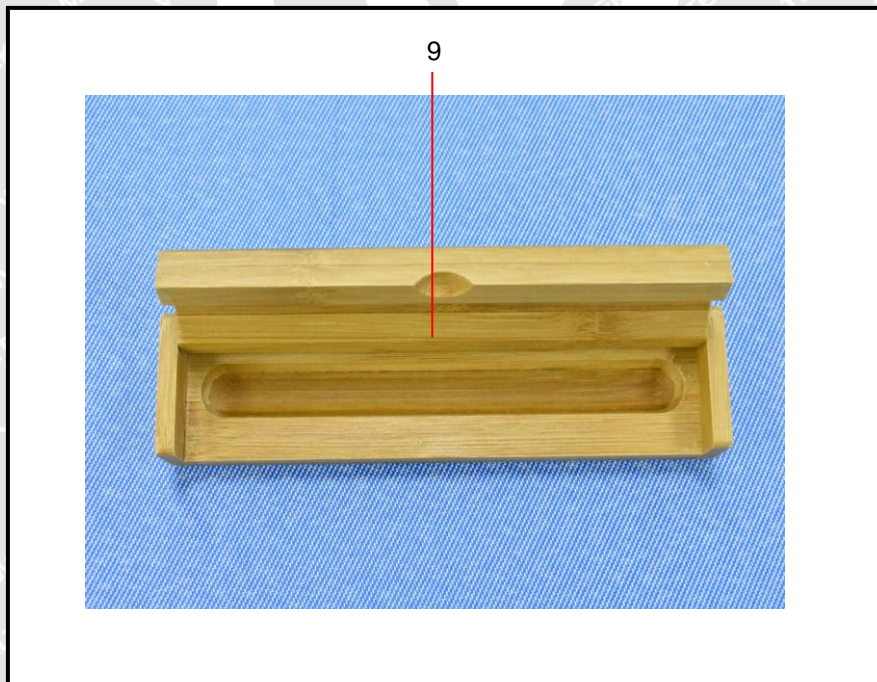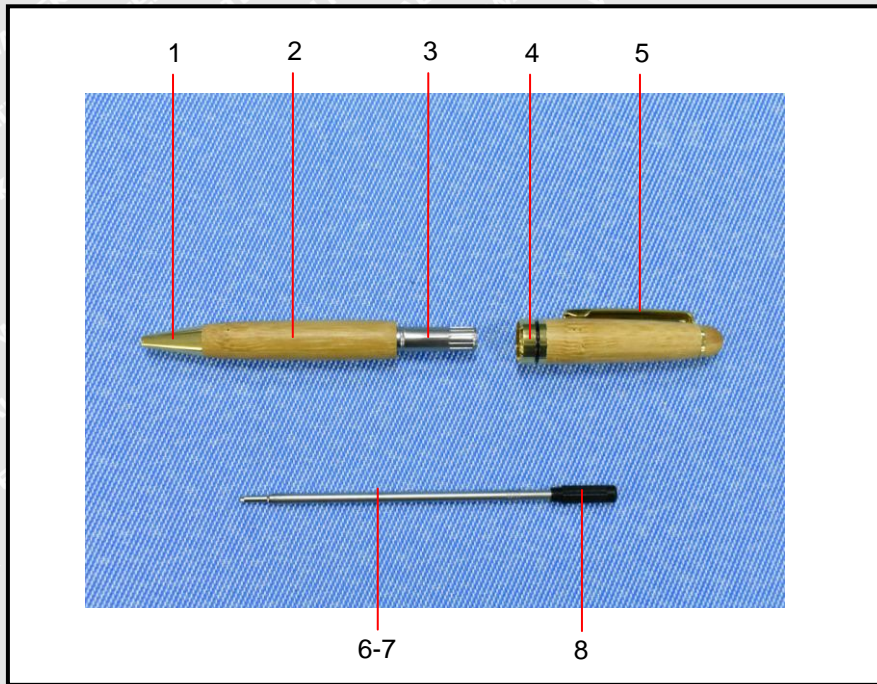
Test Specimen Description:

No.1: Golden metal cap
No.2: Brown bamboo barrel
No.3: Silvery metal tube
No.4: Golden metal cap
No.5: Golden metal clip
No.6: Silvery metal refill
No.7: Black ink
No.8: Black plastic end
No.9: Brown bamboo box

Sample photo:

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Photographs of parts tested:

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

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