



Test Report

Report No.: LST26030583ENS1

Date: Mar. 24, 2026

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Applicant: Mid Ocean Brands B.V
Address: Unit 711-716, 7/F., Tower A, 83 King Lam Street, Cheung Sha Wan, Kowloon, Hong Kong
Sample Name: Recycled Paper tube pen
Vendor code: 108694
Item number: MO2067

The above information were submitted and identified by/on behalf of the applicant.

Sample Receiving Date: Mar. 16, 2026
Testing Period: Mar. 17, 2026 to Mar. 19, 2026

*****FOR FURTHER DETAILS,PLEASE REFER TO THE FOLLOWING PAGE(S)*****

Signed for and on behalf of LST

Rory / Technical Manager

Zhejiang Lisen Testing Technology Co., Ltd.

Address: 5 Floor, Building 13, Yiwu Science & Technology Park,

No. 968 Xuefeng West Road, Yiwu, Zhejiang, China

Tel: 86-579-85573858

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Summary of Test Result(s):

No.	Test Sample	Test Requested	Result(s)
1	Tested materials of submitted samples	Annex XVII items 63 of the REACH Regulation (EC) No 1907/2006 & amended (EU) No 836/2012 & (EU) No 2015/628 - Lead content	PASS
2	Tested materials of submitted samples	Annex XVII items 23 of the REACH Regulation (EC) No 1907/2006 & commission regulation(EU) No.494/2011 & amended (EU) No. 835/2012 & (EU) No 217/2016 - Cadmium content	PASS
3	Tested materials of submitted samples	Annex XVII items 51&52 of the REACH Regulation (EC) No 1907/2006 & amended (EC) No. 552/2009&(EU) 2018/2005 - Phthalates	PASS
4	Tested materials of submitted samples	Annex XVII items 50 of the REACH Regulation (EC) No 1907/2006 Class II - Polycyclic Aromatic Hydrocarbons (PAHs)	PASS
5	Tested materials of submitted samples	Category 2 in AfPS GS 2019:01 PAK," Testing and assessment of polycyclic aromatic hydrocarbons (PAHs) in the recognition of the GS mark".	PASS

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Sample Description

Material No.	Component Description	Samples / Components
01	Green paper	Barrel
02	Black paper	Barrel
03	Light brown paper	Barrel
04	Red paper	Barrel
05	Blue paper	Barrel
06	Lake blue paper	Barrel
07	White paper	Barrel
08	Gray white plastic with silvery plating	Tip
09	Gray white plastic with silvery plating	Press-button
10	Silvery plating metal	Clip
11	Gray white plastic	Thrust tube
12	White plastic	Thrust device
13	Dark blue plastic	Inside of barrel
14	Silvery plating metal	Long spring
15	Silvery plating metal	Short spring
17	White plastic	Cartridge
18	Blue ink	Ink

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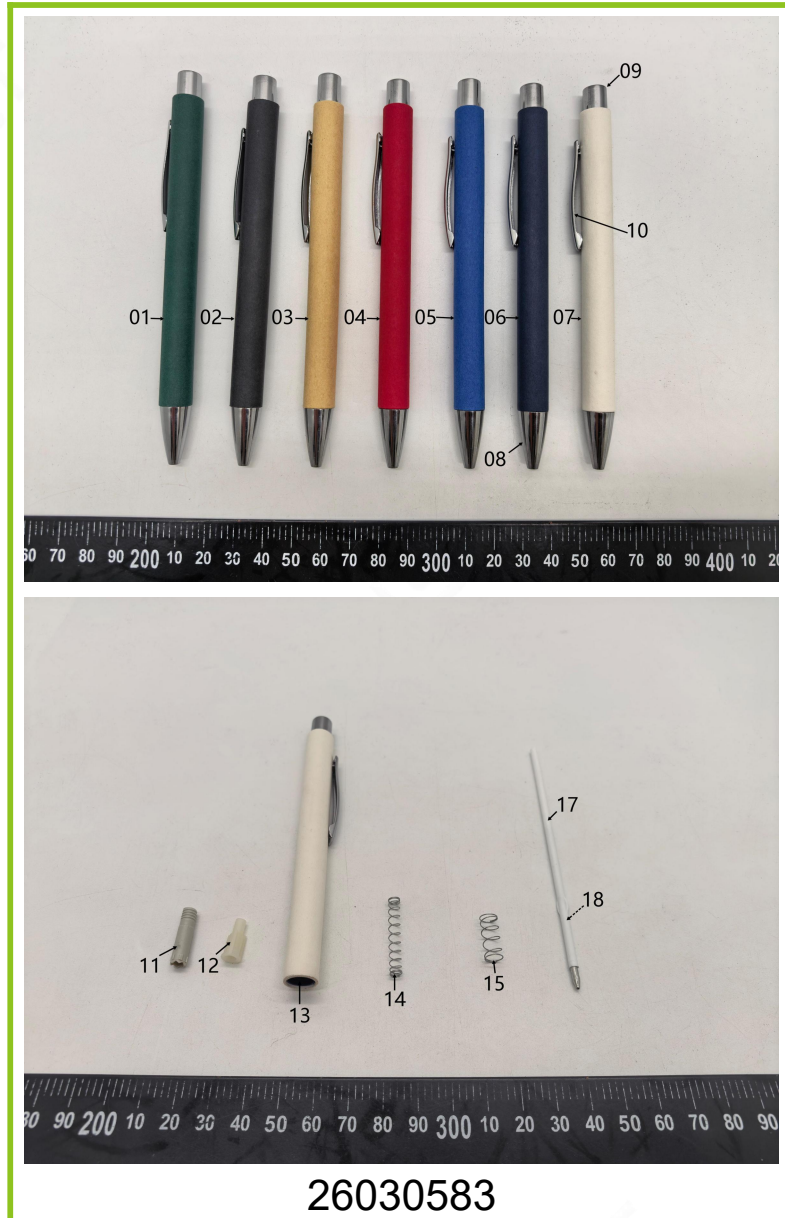
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Photo of sample



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Test Result(s):

Annex XVII items 63 of the REACH - Lead content

Method: With reference to IEC 62321-5:2013, analyzed by Atomic Absorption Spectroscopy (AAS).

Material No.	Limit (mg/kg)	Result (mg/kg)	Conclusion
(01+02+03)▲	500	N.D.	PASS
(04+05)▲	500	N.D.	PASS
(06+07)▲	500	N.D.	PASS
(08+09)▲	500	N.D.	PASS
10	500	33	PASS
(11+12+13)▲	500	N.D.	PASS
(14+15)▲	500	25	PASS
17	500	N.D.	PASS
18	500	N.D.	PASS

- Note:**
1. mg/kg = milligram per kilogram (ppm).
 2. N.D. = Not Detected (< RL).
 3. RL (Reporting Limit) = 10 mg/kg.
 4. "▲" this data for several samples of mixed test results, the actual data of one or several samples in mixed samples are likely more than the results, please be careful to use this data.

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Annex XVII items 23 of the REACH - Cadmium content

Method: With reference to IEC 62321-5:2013, analyzed by Atomic Absorption Spectroscopy (AAS).

Material No.	Limit (mg/kg)	Result (mg/kg)	Conclusion
(01+02+03)▲	100	N.D.	PASS
(04+05)▲	100	N.D.	PASS
(06+07)▲	100	N.D.	PASS
(08+09)▲	100	N.D.	PASS
10	100	N.D.	PASS
(11+12+13)▲	100	N.D.	PASS
(14+15)▲	100	N.D.	PASS
17	100	N.D.	PASS
18	1000	N.D.	PASS

- Note:**
1. mg/kg = milligram per kilogram (ppm).
 2. N.D. = Not Detected (< RL).
 3. RL (Reporting Limit) = 5 mg/kg.
 4. "▲" this data for several samples of mixed test results, the actual data of one or several samples in mixed samples are likely more than the results, please be careful to use this data.

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Annex XVII items 51&52 of the REACH - Phthalates

Method: With reference to CPSC-CH-C1001-09.4, analyzed by Gas Chromatograph-Mass Spectrometry (GC-MS).

Substances	DBP	BBP	DEHP	DIBP	SUM	DNOP	DIDP	DINP	SUM	Conclusion
CAS No.	84-74-2	85-68-7	117-81-7	84-69-5	--	117-84-0	68515-49-1	68515-48-0	--	
Limit (mg/kg)	--	--	--	--	1000	--	--	--	1000	
RL (mg/kg)	50	50	50	50	--	50	100	100	--	
Material No.	Result (mg/kg)									
(08+09)▲	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	PASS
(11+12+13)▲	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	PASS
17	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	PASS
18	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	PASS

- Note:**
1. mg/kg = milligram per kilogram (ppm).
 2. N.D. = Not Detected (< RL).
 3. RL = Reporting Limit.
 4. "▲"this data for several samples of mixed test results, the actual data of one or several samples in mixed samples are likely more than the results, please be careful to use this data.

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Annex XVII items 50 of the REACH - Polycyclic Aromatic Hydrocarbons (PAHs)

Method: With reference to AfPS GS 2019:01 PAK, analyzed by Gas Chromatograph-Mass Spectrometry (GC-MS).

Test Substance	CAS No.	Limit (mg/kg)			Result (mg/kg)			
		I	II	III	(08+09) ▲	(11+12 +13)▲	17	18
Benzo[a]anthracene(BaA)	56-55-3	--	1	0.5	N.D.	N.D.	N.D.	N.D.
Chrysene (CHR)	218-01-9	--	1	0.5	N.D.	N.D.	N.D.	N.D.
Benzo[b]fluoranthene(BbFA)	205-99-2	--	1	0.5	N.D.	N.D.	N.D.	N.D.
Benzo[k]fluoranthene(BkFA)	207-08-9	--	1	0.5	N.D.	N.D.	N.D.	N.D.
Benzo[a]pyrene(BaP)	50-32-8	1	1	0.5	N.D.	N.D.	N.D.	N.D.
Dibenzo[a,h]anthracene(DBA _h A)	53-70-3	--	1	0.5	N.D.	N.D.	N.D.	N.D.
Benzo[e]pyrene(BeP)	192-97-2	--	1	0.5	N.D.	N.D.	N.D.	N.D.
Benzo[j]fluoranthene(BjFA)	205-82-3	--	1	0.5	N.D.	N.D.	N.D.	N.D.
SUM		10	--	--	N.D.	N.D.	N.D.	N.D.
Conclusion					PASS	PASS	PASS	PASS

- Note:**
1. mg/kg = milligram per kilogram (ppm).
 2. N.D. = Not Detected (<RL).
 3. RL (Reporting Limit) = 0.2 mg/kg.
 4. "--" = Not Regulated.
 5. Product Class:
 - I = Extender oils.
 - II = Rubber or plastic components that come into direct as well as prolonged or short-term repetitive contact with the human skin or the oral cavity, under normal or reasonably foreseeable conditions of use.
 - III = Toys, including activity toys, and childcare articles, if any of their rubber or plastic components that come into direct as well as prolonged or short-term repetitive contact with the human skin or the oral cavity, under normal or reasonably foreseeable conditions of use.
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AfPS GS 2019:01 PAK - Polycyclic Aromatic Hydrocarbons (PAHs)

Method: With reference to AfPS GS 2019:01 PAK, analyzed by Gas Chromatograph-Mass Spectrometry (GC-MS).

Test Substance	CAS No.	Result (mg/kg)			
		(08+09)▲	(11+12+13)▲	17	18
Category Type		Category 2 Others	Category 2 Others	Category 2 Others	Category 2 Others
(1) Naphthalene(NAP)	91-20-3	N.D.	N.D.	0.3	0.5
(2) Phenanthrene(PHE)	85-01-8	N.D.	N.D.	N.D.	N.D.
(3) Anthracene(ANT)	120-12-7	N.D.	N.D.	N.D.	N.D.
(4) Fluoranthene(FLT)	206-44-0	N.D.	N.D.	N.D.	N.D.
(5) Pyrene(PYR)	129-00-0	N.D.	N.D.	N.D.	N.D.
Sum of (PHE, ANT, FLT, PYR)		N.D.	N.D.	N.D.	N.D.
(6) Benzo(a)anthracene(BaA)	56-55-3	N.D.	N.D.	N.D.	N.D.
(7) Chrysene(CHR)	218-01-9	N.D.	N.D.	N.D.	N.D.
(8) Benzo(b)fluoranthene(BbFA)	205-99-2	N.D.	N.D.	N.D.	N.D.
(9) Benzo(k)fluoranthene(BkFA)	207-08-9	N.D.	N.D.	N.D.	N.D.
(10) Benzo(a)pyrene(BaP)	50-32-8	N.D.	N.D.	N.D.	N.D.
(11) Indeno(1,2,3-cd)pyrene(IPY)	193-39-5	N.D.	N.D.	N.D.	N.D.
(12) Dibenzo(a,h)anthracene(DBAhA)	53-70-3	N.D.	N.D.	N.D.	N.D.
(13) Benzo(g,h,i)perylene(BPE)	191-24-2	N.D.	N.D.	N.D.	N.D.
(14) Benzo[e]pyrene(BeP)	192-97-2	N.D.	N.D.	N.D.	N.D.
(15) Benzo[j]fluoranthene(BjFA)	205-82-3	N.D.	N.D.	N.D.	N.D.
Sum of 15 PAHs		N.D.	N.D.	0.3	0.5
Conclusion		PASS	PASS	PASS	PASS

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AfPS GS 2019:01 PAK

Test Substance	CAS No.	Limit (mg/kg)				
		Category 1	Category 2		Category 3	
			Use by Children*	Others	Use by Children*	Others
(1) Naphthalene(NAP)	91-20-3	< 1	<2		<10	
(2) Phenanthrene(PHE)	85-01-8	--	--	--	--	--
(3) Anthracene(ANT)	120-12-7	--	--	--	--	--
(4) Fluoranthene(FLT)	206-44-0	--	--	--	--	--
(5) Pyrene(PYR)	129-00-0	--	--	--	--	--
Sum of (PHE, ANT, FLT, PYR)		<1	<5	<10	<20	<50
(6) Benzo(a)anthracene(BaA)	56-55-3	<0.2	<0.2	<0.5	<0.5	<1
(7) Chrysene(CHR)	218-01-9	<0.2	<0.2	<0.5	<0.5	<1
(8) Benzo(b)fluoranthene(BbFA)	205-99-2	<0.2	<0.2	<0.5	<0.5	<1
(9) Benzo(k)fluoranthene(BkFA)	207-08-9	<0.2	<0.2	<0.5	<0.5	<1
(10) Benzo(a)pyrene(BaP)	50-32-8	<0.2	<0.2	<0.5	<0.5	<1
(11) Indeno(1,2,3-cd)pyrene(IPY)	193-39-5	<0.2	<0.2	<0.5	<0.5	<1
(12) Dibenzo(a,h)anthracene(DBA _h A)	53-70-3	<0.2	<0.2	<0.5	<0.5	<1
(13) Benzo(g,h,i)perylene(BPE)	191-24-2	<0.2	<0.2	<0.5	<0.5	<1
(14) Benzo[e]pyrene(BeP)	192-97-2	<0.2	<0.2	<0.5	<0.5	<1
(15) Benzo[j]fluoranthene(BjFA)	205-82-3	<0.2	<0.2	<0.5	<0.5	<1
Sum of 15 PAHs		<1	<5	<10	<20	<50

- Note:**
1. mg/kg = milligram per kilogram (ppm).
 2. N.D. = Not Detected (<RL).
 3. RL (Reporting Limit) = 0.2 mg/kg.
 4. "--" = Not Regulated.
 5. Category 1: Materials intended to be placed in the mouth, or materials in toys according to Directive 2009/48/EC or materials in articles for the use by children up to 3 years of age coming into long-term contact with skin (more than 30s) during the intended use.
Category 2: Materials not covered by category 1, coming into long-term contact (more than 30s) or short term repetitive contact with skin during the intended or foreseeable use.
Category 3: Materials not covered by category 1 nor by category 2, coming into short-term contact (up to 30s) with skin during the intended or foreseeable use.
 6. "*" = Children is legally defined as a person before reaching the age of 14 years.
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Remark:

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End of Report

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