

TEST REPORT

Reference No. : WTF21F09098459C

Applicant: Mid Ocean Brands B.V.

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

Hong Kong

Manufacturer..... : 104901

Sample Name.....: Ball pen

Model No. : KC6217, KC6725, MO7318, MO9481

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 released 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....: 2021-09-15

Date of Test...... : 2021-09-15 to 2021-09-23

Date of Issue : 2021-09-23

Test Result: Please refer to next page (s)

Note : As specified by client, only test the designated sample.

Remarks:

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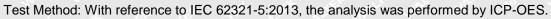
Rena.Chen / Project Engineer

Swing.Liang / Technical Manager

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Test Item	LOQ	Results	Limit	
	(mg/kg)	No.1+No.2+No.3	No.4+No.5+No.6	(mg/kg)
Lead(Pb)	2	ND*	ND*	500
Conclusion	1115 - 1115	Pass	Pass	ULIER -NII

Test Item	LOQ	LOQ Results (mg/kg)		
	(mg/kg)	No.7+No.15+No.32	No.8+No.24+No.35	(mg/kg)
Lead(Pb)	2	ND*	ND*	500
Conclusion	ner me - me	Pass	Pass	WITE WILL

Test Item	LOQ	Results (mg/kg)		Limit
	(mg/kg)	No.9+No.25	No.10+No.20+No.26	(mg/kg)
Lead(Pb)	2 / 3	ND*	ND*	500
Conclusion	mer mer m	Pass	Pass	WILL W

Tool Hom	LOQ	LOQ Results (mg/kg)		Limit
Test Item	(mg/kg)	No.11+No.12	No.13+No.14+No.19	(mg/kg)
Lead(Pb)	2 4	ND*	ND*	500
Conclusion	10, 10,	Pass	Pass	NVIZE O

Took Home	LOQ	Results (mg/kg)		Limit
Test Item	(mg/kg)	No.16+No.17+No.18	No.21+No.23	(mg/kg)
Lead(Pb)	A 2 A	ND*	ND*	500
Conclusion	er Wille	Pass	Pass	ITE WITTE

Took House	LOQ	LOQ Results (mg/kg)		
Test Item	(mg/kg)	No.22+No.33+No.34	No.27+No.28+No.29	(mg/kg)
Lead(Pb)	J+ J+2 J	ND*	ND*	500
Conclusion	100 -100	Pass	Pass	The Market



Took Hom	LOQ	Results (mg/kg)	Limit
Test Item	(mg/kg)	No.30+No.31	(mg/kg)
Lead(Pb)	2	ND*	500
Conclusion	mit anit un w	Pass	TEK STAKE N

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.

2) Cadmium (Cd)

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

Total Hamiliet William	LOQ	Results	s (mg/kg)
Test Item	(mg/kg)	No.1+No.2+No.3	No.4+No.5+No.6
Cadmium(Cd)	2	ND*	ND*
Conclusion	-	Pass	Pass

Tally martin	LOQ	Results (mg/kg)	
Test Item	(mg/kg)	No.8+No.24+No.35	No.9+No.25
Cadmium(Cd)	2	ND*	ND*
Conclusion	A A - A	Pass	Pass

Tackliam Lift Mill	LOQ	LOQ Results (mg/kg)		
Test Item	(mg/kg)	No.11+No.12	No.13+No.14+No.19	
Cadmium(Cd)	m ¹ m 2 m	ND*	ND*	
Conclusion	A A - A	Pass	Pass	

t Tank Mana alifik mili	LOQ	Results (mg/kg)	
Test Item	(mg/kg)	No.16+No.17+No.18	No.22+No.33+No.34
Cadmium(Cd)	2	ND*	ND*
Conclusion	A 14 1	Pass	Pass



Took Home	LOQ	Results (mg/kg)	
Test Item	(mg/kg)	No.27+No.28+No.29	No.30+No.31
Cadmium(Cd)	2	ND*	ND*
Conclusion	MITE WALTE-WALT	Pass	Pass

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) 100	
Wet paint		
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) Formaldehyde

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

Test Item	Unit	Result No.10+No.20+No.26	LOQ	Client's Limit
Formaldehyde (CH ₂ O)	mg/kg	32*	10	80
Conclusion	K TEK TEK	Pass	115 -716	10, - 2

Note:

- ND = Not Detected or lower than limit of quantitation
- mg/kg =milligram per kilogram=ppm
- LOQ = Limit of quantitation
- "*" = Results are calculated by the minimum weight of mixed components.

Test Specimen Description:

- No.1: Black plastic cap
- No.2: Dark grey plastic barrel
- No.3: Black plastic clip
- No.4: Dark grey plastic cap
- No.5: White plastic end
- No.6: Off-white plastic end
- No.7: Silvery metal spring
- No.8: White plastic refill

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No.9: Blue ink

No.10: Brown bamboo barrel

No.11: White plastic cap with silvery plating

No.12: White plastic cap with silvery plating

No.13: White plastic end

No.14: Off-white plastic end

No.15: Silvery metal spring

No.16: White plastic refill

No.17: White plastic refill

No.18: Off-white plastic end

No.19: Black plastic barrel

No.20: Brown bamboo barrel

No.21: Silvery metal clip

No.22: Semi-transparent plastic cap

No.23: Silvery metal cap

No.24: Transparent plastic refill

No.25: Black ink

No.26: Brown wooden barrel

No.27: Semi-transparent plastic cap

No.28: Blue soft plastic tube

No.29: Semi-transparent plastic barrel

No.30: Blue plastic barrel

No.31: Semi-transparent plastic clip

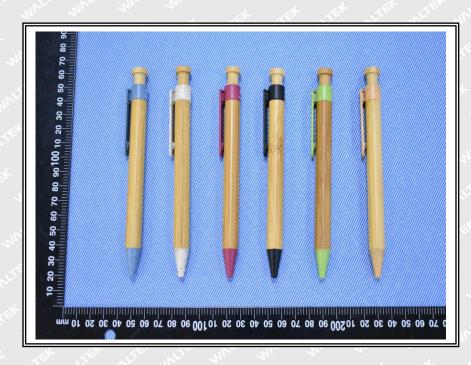
No.32: Silvery metal spring

No.33: Off-white plastic end

No.34: Blue plastic end

No.35: White plastic refill

Sample photo:





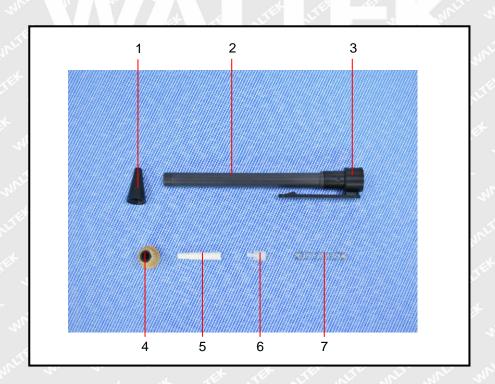




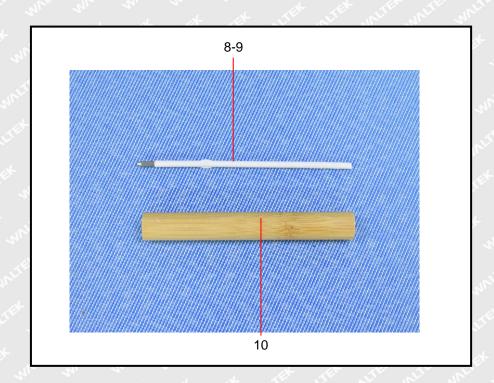


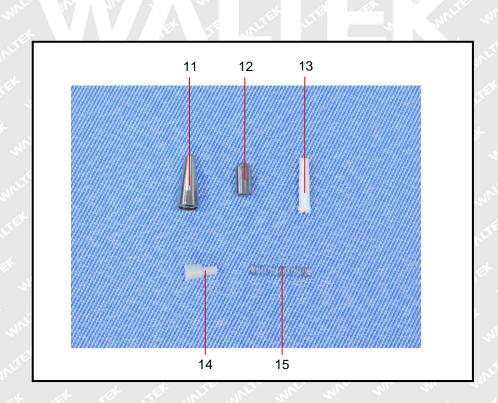


Photographs of parts tested:

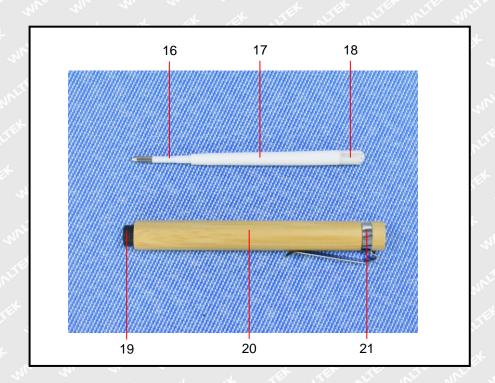


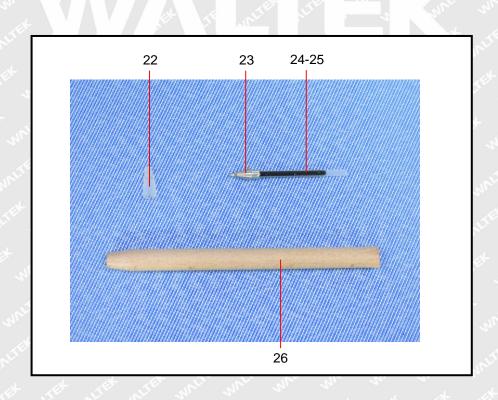




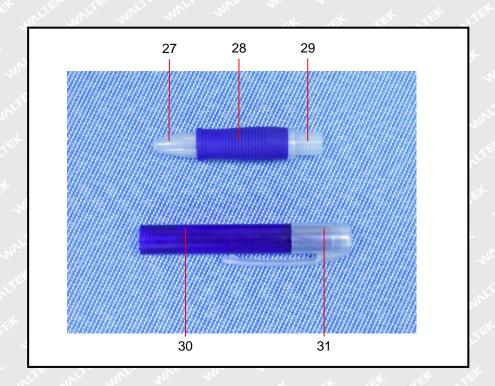


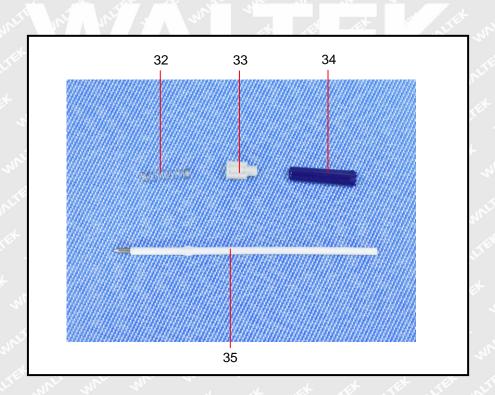












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