



TEST REPORT

Report No.: : WTF22F10201554A1R1C

Applicant: Mid Ocean Brands B.V.

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

Kowloon, Hong Kong

Manufacturer.....: 112451

Sample Name: Baseball cap

Sample Model: KC1464

Test Conclusion: Refer to next page (s)

Date of Receipt sample: 2022-10-11 & 2022-12-28 & 2023-01-12

Testing period.....: 2022-10-11 to 2022-10-31 & 2022-12-28 to 2023-02-03

Date of Issue: 2023-02-06

Test Result Refer to next page (s)

Note....: 1) As specified by client, only test the designated sample.

2) As per client's requirement, results of specimen from No.1 to No.6 are quoted from report No.WTF22F10201554C specimen from No.1 to No.6.

Prepared By:

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Signed for and on behalf of Waltek Testing Group (Foshan) Co., Ltd.

Swing.Liang



Test Requested.....:

- 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
- 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
- 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) Determine the specified AZO Colorants contents in the submitted sample in according to the Entries 43 in Annex XVII of the REACH Regulation (EC) No.1907/2006 and the Amendment Regulation (EC) No.552/ 2009 & No.126/ 2013 (previously restricted under Directive 2002/61/EC).
- 5) As specified by client, determination of the free and hydrolysed formaldehyde content in submitted sample
- 6) Nickel content requirement in Annex XVII Item 27 of the REACH Regulation (EC) No. 1907/2006 & amendment No.552/2009 (formerly known as Directive 94/27/EC and 2004/96/EC)
- 7) As requested by the applicant, to test Colour Fastness to Rubbing in the submitted sample.



Sample photo:







Test Results:

1) Lead (Pb)

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

Test Item	LOQ	The State	Limit		
	(mg/kg)	No.1	No.2	No.3	(mg/kg)
Lead(Pb)	2 0	ND	ND	ND	500
Conclusion	2 4 Th 2	Pass	Pass	Pass	Ter WILL W

Test Item	LOQ	Results (mg/kg)				
	(mg/kg)	No.4	No.5	No.6	(mg/kg)	
Lead(Pb)	2	ND CO	90	ND	500	
Conclusion	211111- 3	Pass	Pass	Pass	Jer Wile.	

Test Item	LOQ	let tret at	Results (mg/kg)			
	(mg/kg)	No.7+No.8	No.9+No.10	No.11	(mg/kg)	
Lead(Pb)	2	ND*	ND*	ND	500	
Conclusion	10, 1 23	Pass	Pass	Pass	LIFE NOTE	

Took Home	LOQ	TEX LIEK OF	Results (mg/kg)	Limit	
Test Item	(mg/kg)	No.12+No.13	No.14+No.15	No.16	(mg/kg)
Lead(Pb)	2	ND*	ND*	ND	500
Conclusion	1/1/2 - 1/11	Pass	Pass	Pass	WILL BUILT

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.
- (6) The test sample of specimen No.7 is received on the date of 2022-12-28.



2) Cadmium (Cd)

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

Tank the still still	LOQ	Results (mg/kg)			
Test Item	(mg/kg)	No.1	No.2	No.3	
Cadmium(Cd)	2	ND	ND	ND ND	
Conclusion	J J.	Pass	Pass	Pass	

Tool Rom Street	کی	LOQ	Mer Mer.	Results (mg/kg)	TEK TEK LIEK	
Test Item	-tn,	(mg/kg)	No.7+No.8	No.9+No.10	No.11	
Cadmium(Cd)	NUTE	unti 2 unti	ND*	ND*	ND ND	
Conclusion	.4	J+ J+	Pass	Pass	Pass	

Test Item	LOQ	Results (mg/kg)				
	(mg/kg)	No.12+No.13	No.14+No.15	No.16		
Cadmium(Cd)	2	ND*	ND*	ND ND		
Conclusion	- A	Pass	Pass	Pass		

- (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.
- (6) The test sample of specimen No.7 is received on the date of 2022-12-28.



3) Phthalates

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

Test Items	LOQ (%)	Results (%) No.2	Limit (%)
Benzyl butyl phthalate (BBP)	0.005	ND WALL	We we we am
Di (2-ethyl hexyl)- phthalate (DEHP)	0.005	ND THE	sum of four
Dibutyl phthalate (DBP)	0.005	ND	phthalates < 0.1
Diisobutyl phthalate (DIBP)	0.005	SOF SOFT ND CONTROL	Mer Mer My
Diisodecyl phthalate (DIDP)	0.01	ND+ St	NITER WITER WALTER
Diisononyl phthalate (DINP)	0.01	ND ND	sum of three phthalates < 0.1
Di-n-octyl phthalate (DNOP)	0.005	ND NT	primalates < 0.1
Conclusion	Marie Marie	Pass	et et eit

Note:

DBP= Dibutyl phthalate
DINP= Di-isononyl phthalate
DIBP= Diisobutyl phthalate
DIBP= Diisobutyl phthalate
DIBP= Diisobutyl phthalate

BBP= Benzyl butyl phthalate
DIDP= Bis-(2-ethylhexyl)- phthalate
DIDP= Di-isodecyl phthalate

- (1) % = percentage by weight
- (2) ND = Not Detected or lower than limit of quantitation
- (3) LOQ = Limit of quantitation
- (4) "<" = 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.



4) AZO

Test Method: With reference to BS EN ISO 14362-1: 2017 and BS EN ISO 14362-3: 2017, analysis was performed by Gas Chromatographic Mass Spectrometry (GC-MS)

No.	Aminos Substances	CAS No.	Limit	Result (mg/kg)		
NO.	Amines Substances	CAS NO.	(mg/kg)	No.1	No.3	
1	4-Aminobiphenyl	92-67-1	30	ND	ND	
2	Benzidine	92-87-5	30	ND	ND	
3	4-chloro-o-Toluidine	95-69-2	30	ND ND	ND	
4	2-Naphthylamine	91-59-8	30	ND	ND	
5	o-Aminoazotoluene	97-56-3	30	ND	ND	
6	2-Amino-4-nitrotoluene	99-55-8	30	ND	ND	
7	p-Chloroaniline	106-47-8	30	ND	ND	
8	2,4-diaminoanisol	615-05-4	30	ND	ND	
9	4,4'-Diaminodiphenylmethane	101-77-9	30	ND	ND ND	
10	3,3'-Dichlorobenzidine	91-94-1	30	ND	ND	
11	3,3'-Dimethoxybenzidine	119-90-4	30	ND	ND	
12	3,3'-Dimethylbenzidine	119-93-7	30	ND	ND -	
13	3,3'-Dimethyl-4,4'-diaminodiphenylmethane	838-88-0	30	ND	ND	
14	p-cresinin	120-71-8	30	ND	ND-	
15	4,4'-Methylen-bis-(2-chloroaniline)	101-14-4	30	ND (ND	
16	4,4'-Oxydianiline	101-80-4	30	ND	ND	
17	4,4'-Thiodianiline	139-65-1	30	ND	MD MD	
18	o-Toluidine	95-53-4	30	ND	ND	
19	2,4-Toluylendiamine	95-80-7	30	ND	ND	
20	2,4,5 – Trimethylaniline	137-17-7	30	ND	ND ND	
21	o-anisidine	90-04-0	30	ND	ND	
22	4-aminoazobenzene	60-09-3	30	ND	ND	
23	2,4-Xylidin	95-68-1	30	ND	AU ND	
24	2,6-Xylidin	87-62-7	30	ND	ND	
- 4	Conclusion	JE S	10,117	Pass	Pass	



No.	Aminos Substances	CAS No.	Limit	Result (mg/kg)		
NO.	Amines Substances	CAS NO.	(mg/kg)	No.7+No.8	No.9+No.10	
1	4-Aminobiphenyl	92-67-1	30	ND*	ND*	
2	Benzidine	92-87-5	30	ND*	ND*	
3	4-chloro-o-Toluidine	95-69-2	30	ND*	ND*	
4	2-Naphthylamine	91-59-8	30	ND*	ND*	
5	o-Aminoazotoluene	97-56-3	30	ND*	ND*	
6	2-Amino-4-nitrotoluene	99-55-8	30	ND*	ND*	
7	p-Chloroaniline	106-47-8	30	ND*	ND*	
8	2,4-diaminoanisol	615-05-4	30	ND*	ND*	
9 (4,4'-Diaminodiphenylmethane	101-77-9	30	ND*	ND*	
10	3,3'-Dichlorobenzidine	91-94-1	30	ND*	ND*	
11	3,3'-Dimethoxybenzidine	119-90-4	30	ND*	ND*	
12	3,3'-Dimethylbenzidine	119-93-7	30	ND*	ND*	
13	3,3'-Dimethyl-4,4'-diaminodiphenylmethane	838-88-0	30	ND*	ND*	
14	p-cresinin	120-71-8	30	ND*	ND*	
15	4,4'-Methylen-bis-(2-chloroaniline)	101-14-4	30	ND*	ND*	
16	4,4'-Oxydianiline	101-80-4	30	ND*	ND*	
17	4,4'-Thiodianiline	139-65-1	30	ND*	ND*	
18	o-Toluidine	95-53-4	30	ND*	ND*	
19	2,4-Toluylendiamine	95-80-7	30	ND*	ND*	
20	2,4,5 – Trimethylaniline	137-17-7	30	ND*	ND*	
21	o-anisidine	90-04-0	30	ND*	ND*	
22	4-aminoazobenzene	60-09-3	30	ND*	ND*	
23	2,4-Xylidin	95-68-1	30	ND*	ND*	
24	2,6-Xylidin	87-62-7	30	ND*	ND*	
NUT	Conclusion	-26+	16th 5	Pass	Pass	



	Amines Substances	CAS No.	Limit	Result (mg/kg)		
No.	Amines Substances	CAS NO.	(mg/kg)	No.12+No.13	No.14+No.15	
1	4-Aminobiphenyl	92-67-1	30	ND*	ND*	
2	Benzidine	92-87-5	30	ND*	ND*	
3	4-chloro-o-Toluidine	95-69-2	30	ND*	ND*	
4	2-Naphthylamine	91-59-8	30	ND*	ND*	
5	o-Aminoazotoluene	97-56-3	30	ND*	ND*	
6	2-Amino-4-nitrotoluene	99-55-8	30	ND*	ND*	
7	p-Chloroaniline	106-47-8	30	ND*	ND*	
8	2,4-diaminoanisol	615-05-4	30	ND*	ND*	
9	4,4'-Diaminodiphenylmethane	101-77-9	30	ND*	ND*	
10	3,3'-Dichlorobenzidine	91-94-1	30	ND*	ND*	
11	3,3'-Dimethoxybenzidine	119-90-4	30	ND*	ND*	
12	3,3'-Dimethylbenzidine	119-93-7	30	ND*	ND*	
13	3,3'-Dimethyl-4,4'-diaminodiphenylmethane	838-88-0	30	ND*	ND*	
14	p-cresinin	120-71-8	30	ND*	ND*	
15	4,4'-Methylen-bis-(2-chloroaniline)	101-14-4	30	ND*	ND*	
16	4,4'-Oxydianiline	101-80-4	30	ND*	ND*	
17	4,4'-Thiodianiline	139-65-1	30	ND*	ND*	
18	o-Toluidine	95-53-4	30	ND*	ND*	
19	2,4-Toluylendiamine	95-80-7	30	ND*	ND*	
20	2,4,5 – Trimethylaniline	137-17-7	30	ND*	ND*	
21	o-anisidine	90-04-0	30	ND*	ND*	
22	4-aminoazobenzene	60-09-3	30	ND*	ND*	
23	2,4-Xylidin	95-68-1	30	ND*	ND*	
24	2,6-Xylidin	87-62-7	30	ND*	ND*	
Nilla	Conclusion	-20	16th - 15	Pass	Pass	

- ND = Not Detected or lower than limit of quantitation
- mg/kg=Milligram per kilogram
- Limit of quantitation (mg/kg): Each 5mg/kg
- The CAS-numbers 97-56-3 and 99-55-8 are further reduced to CAS-numbers 95-53-4 and 95-80-7.
- AZO colorants that are able to form 4-aminoazobenzene, generate under the condition of this method aniline and 1,4-phenylenediamine. The presence of these colorants cannot be reliably ascertained without additional information, e.g. the chemical structure of the colorant used.
- The CAS-numbers 95-68-1 and 87-62-7 are not proscribed under REACH Regulation (EC) No 1907/2006
- "*" = Results are calculated by the minimum weight of mixed components.
- The test sample of specimen No.7 is received on the date of 2022-12-28.



5) Formaldehyde

Test Method: With reference to ISO14184-1: 2011, analysis was performed by UV-VIS

Toollien Set Set	July 11 mid NIT	"WELL "AL	1.00	Client's		
Test Item	Unit	No.1	No.3	No.7	LOQ	Limit
Formaldehyde (CH ₂ O)	mg/kg	20	ND	ND	16	75
Conclusion		Pass	Pass	Pass	Will - OVE	21/2 - 21/2

Test Item Unit	NI India	it will	100	Client's		
	Unit	No.8	No.9	No.10	LOQ	Limit
Formaldehyde (CH ₂ O)	mg/kg	ND	ND	ND	16	75
Conclusion	- 4	Pass	Pass	Pass	white whi	mr.

The such the the	10.4	LIE MITE	Result	1.00	Client's	
Test Item	Unit	No.11	No.12	No.13	LOQ	Limit
Formaldehyde (CH ₂ O)	mg/kg	22	ND	ND	16	75
Conclusion	- 2,	Pass	Pass	Pass	WITE W	in war.

Took Hom	Alluit	The It	100	Client's		
Test Item	Unit	No.14	No.15	No.16	LOQ	Limit
Formaldehyde (CH ₂ O)	mg/kg	47	ND	25	16	75
Conclusion	112 - 111	Pass	Pass	Pass	N-TE	VILL ARVILLE

- ND = Not Detected or lower than limit of quantitation
- mg/kg =milligram per kilogram=ppm
- LOQ = Limit of quantitation
- The test sample of specimen No.7 is received on the date of 2022-12-28.



6) Nickel release

Test method: With reference BS EN1811: 2011+A1:2015, Nickel content was determined by Inductively Coupled Argon Plasma Spectrometry

Item No. Sample Area (cm²		Volume of Test			release ²/week)		Conclusion
JEK STEET	Area (cm)	Solution(ml)	Trial 1	Trial 2	Trial 3	Average	k sitem
No.4	11.68	15	ND	ND	ND 4	ND	Pass
No.5	13.86	15	ND	ND	ND	ND	Pass
No.6	12.36	15	ND	ND	ND	ND	Pass

- (1) μg/cm²/week = microgram per square centimetre per week
- (2) Limit of quantitation = 0.05 μg/cm²/week
- (3) ND = Not Detected or lower than limit of quantitation
- (4) Interpretation of test results:

THE STATES AND THE PATER ON	Nickel Release(μg/cm²/week)				
Type of sample	Pass	Fail			
Other components in direct and prolonged contact with the skin	<0.88	≥0.88			
Post assemblies and body piercings (Post assemblies which are inserted into pierced parts of the human body)	<0.35	≥0.35			



7) Colour Fastness to Rubbing

Colour Fast	ness to Rubbing		ct set	· Late	16. 12.	in any	21/2 1/2
(ISO 105-X1	2: 2016; Size of rubbin	ng finger: 16	mm diame	ter.)		. A	at let
are, an	2/1 2/1 /	No.1	No.3	No.7	No.8	No.9	Client's Limit
l amouth	Dry staining	4-5	4-5	4-5	4	4	2-3
Length	Wet staining	4-5	4-5	2-3	+ 3	3	2-3
\	Dry staining	4-5	4-5	4-5	4	4	2-3
Width	Wet staining	4-5	4-5	2-3	3	3	2-3
Conclusion	24. 20. 2.	Pass	Pass	Pass	Pass	Pass	The - all

Colour Fastr	ness to Rubbing	at a	The State of the S	11/2	in the	20	40
(ISO 105-X12	2: 2016; Size of rubbin	ng finger: 16	mm diame	ter.)	4 3	L 15t	18th 18th
me m	10 10	No.10	No.12	No.13	No.14	No.15	Client's Limit
Laster St.	Dry staining	4	4-5	4-5	4-5	4-5	2-3
Length	Wet staining	2-3	4	4-5	4	4	2-3
\	Dry staining	4	4-5	4-5	4-5	4-5	2-3
Width	Wet staining	2-3	4	4-5	4	A 4 X	2-3
Conclusion		Pass	Pass	Pass	Pass	Pass	211 - 21,

Note:

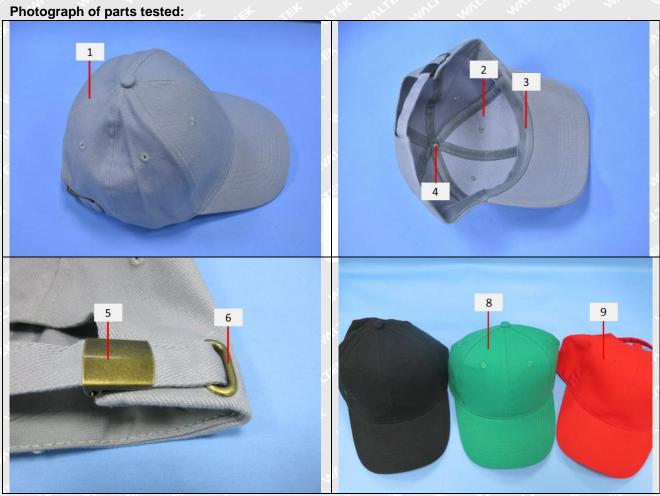
- (1) Grey Scale Rating is based on the 5-step scale of 1 to 5, where 1 is bad and 5 is good.
- (2) The test sample of specimen No.7 is received on the date of 2023-01-12.

Description for Specimen:

Specimen No.	Specimen Description				
MITET WALL JUNE WALL WALL WALL	Grey main fabric				
THE THE 2 THE LITTLE STITLE ST	White net fabric				
3 1	Dark grey fabric rim				
THE MITTER WALLE WALLE WAS	Silvery metal cap				
\$ 5 TH 11 NO	Coppery metal buckle				
The Aut of Aut Aut Aut	Coppery metal eyelet				
THE STEP 7 MITEL WAITE WAITE	Black main fabric				
8 11	Green main fabric				
rite mit 19th mit 11	Red main fabric				
10 10 mi	Blue main fabric				
W 11	White main fabric				



Specimen No.	Specimen Description
12	Blue fabric rim
- 13 steet steet	Green fabric rim
14	Black fabric rim
15	Red fabric rim
16	White fabric rim









Remarks:

- 1. The results shown in this test report refer only to the sample(s) tested;
- 2. This test report cannot be reproduced, except in full, without prior written permission of the company;
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===== End of Report ======

