

# **TEST REPORT**

Report No.	<u>.</u>
Applicant	
Address	
Manufacturer	<u>*</u> :
Sample Name	
Sample Model	:
Test Requested	

 Test Conclusion
 :

 Date of Receipt sample
 :

 Testing period
 :

 Date of Issue
 :

 Test Result
 :

 Note
 :

#### WTF23F05105331C

Mid Ocean Brands B.V.

7/F., Kings Tower, 111 King Lam Street, Cheung Sha Wan, Kowloon, Hong Kong

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Reflective backpack

MO2056

- 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 requested by the applicant, to test Colour Fastness to Rubbing in the submitted sample.

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2023-05-15 🖉

2023-05-15 to 2023-05-22

2023-05-23

Refer to next page (s)

As specified by client, only test the designated sample.

#### Prepared By:

#### Waltek Testing Group (Foshan) Co., Ltd.

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

Swing Liang

Swing.Liang

Waltek Testing Group (Foshan) Co., Ltd. http://www.waltek.com.cn

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WT-510-201-15-A



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# Sample photo:



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# Test Results:

## 1) Lead (Pb)

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

Toot How	LOQ	1 15	Results (mg/kg	1)	Limit
Test Item	(mg/kg)	No.1+No.2	No.3	No.4+No.5	(mg/kg)
Lead(Pb)	2	ND*	ND	ND*	500
Conclusion	NUT THE	Pass	Pass	Pass	5 <sup>0+</sup> - 5 <sup>0</sup>

Test Item	LOQ	the state	INTEL WALT W	Limit	
	(mg/kg)	No.6	No.7	No.8	(mg/kg)
Lead(Pb)	2	_24	ND	ND S	500
Conclusion	et untit -untit	Pass	Pass	Pass	

Test Item	LOQ	s at at	Limit		
	(mg/kg)	No.9+No.10	No.11	No.12	(mg/kg)
Lead(Pb)	2	ND*	ND	ND N	500
Conclusion	14 NY - 114	Pass	Pass	Pass	\$ .5 <sup>4</sup> .5

# Note:

(1) mg/kg = milligram per kilogram

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

Waltek Testing Group (Foshan) Co., Ltd.

http://www.waltek.com.cn

(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	s (mg/kg)			
	(mg/kg)	No.4+No.5	No.6	No.7	No.9+No.10
Cadmium(Cd)	2	ND*	ND	ND -	ND*
Conclusion	s - 1	Pass	Pass	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)
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.4+No.5	(%)
Benzyl butyl phthalate (BBP)	0.005	ND* ND*	the star and an
Di (2-ethyl hexyl)- phthalate (DEHP)	0.005	ND*	sum of four
Dibutyl phthalate (DBP)	0.005	ND*	phthalates < 0.1
Diisobutyl phthalate (DIBP)	0.005	ND*	Mur Mur Mur
Diisodecyl phthalate (DIDP)	0.01	ND*	white white white
Diisononyl phthalate (DINP)	0.01	ND*	sum of three phthalates < 0.1
Di-n-octyl phthalate (DNOP)	0.005	ND*	
Conclusion	Santa Maria	Pass	x # 4 4

#### Note:

DBP= Dibutyl phthalate DINP= Di-isononyl phthalate DIBP= Diisobutyl phthalate BBP= Benzyl butyl phthalate DNOP= Di-n-octyl phthalate DEHP= 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.
- (6) "\*" = Results are calculated by the minimum weight of mixed components.



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



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No.	Aminoo Substanses	CAS No.	Limit	Result (mg/kg)		
NO.	Amines Substances		(mg/kg)	No.3	No.12	
1 1	4-Aminobiphenyl	92-67-1	30	ND	ND	
2	Benzidine	92-87-5	30	ND ND	ND	
3	4-chloro-o-Toluidine	95-69-2	30	ND	ND	
4	2-Naphthylamine	91-59-8	30	ND	ND ND	
5	o-Aminoazotoluene	97-56-3	30	MD ND	ND	
6	2-Amino-4-nitrotoluene	99-55-8		ND S	ND ND	
7	p-Chloroaniline	106-47-8	30	ND	ND	
8	2,4-diaminoanisol	615-05-4	- 30	ND 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	<u>_</u> 30 _	ND	ND ND	
13	3,3'-Dimethyl-4,4'-diaminodiphenylmethane	838-88-0	30	ND	ND	
14	p-cresinin	120-71-8	30	ND S	ND	
15	4,4'-Methylen-bis-(2-chloroaniline)	101-14-4	30	ND	ND	
16	4,4'-Oxydianiline	101-80-4	30	ND	ND S	
17	4,4'-Thiodianiline	139-65-1	30	ND	ND	
18	o-Toluidine	95-53-4	30	ND	SUL NDS	
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 St	
22	4-aminoazobenzene	60-09-3	30	ND ND	ND	
23	2,4-Xylidin	95-68-1	30	ND	ND	
24	2,6-Xylidin	87-62-7	30	ND ND	JND J	
d	Conclusion	- 74		Pass	Pass	

#### Note:

- 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.



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## 5) Colour Fastness to Rubbing

Colour Fastne	ess to Rubbing	1 1	- At a	ine mine	when when	The In
(ISO 105-X12:	2016; Size of rubbin	g finger: 16m	m diameter.)		de At	at st
and when	m. n. a	No.1	No.2	No.3	No.12	Client's Limit
Longth	Dry staining	4-5	4-5	4-5	4-5	2-3
Length	Wet staining	4-5	4-5	4-5	4-5	2-3
\\/idth	Dry staining	4-5	4-5	4-5	4-5	2-3
Width	Wet staining	J 4-5 J	4-5	4-5	4-5	2-3
Conclusion	r - 2r - 2r	Pass	Pass	Pass	Pass	an - an

#### Note:

(1) Grey Scale Rating is based on the 5-step scale of 1 to 5, where 1 is bad and 5 is good.

## **Description for Specimen:**

Specimen No.	Specimen Description			
ner with which we	Silvery grey main fabric			
2	Black main fabric			
3	Black webbing			
white 4 new my my	Black plastic buckle			
5 1	Black plastic buckle			
6	Silvery metal zipper head with black coating			
15th m. 7 million Million	Black plastic zipper tooth			
8	Black zipper fabric			
9 all	Black plastic hook(VELCRO)			
10 10 10	Black plastic loop(VELCRO)			
11 11	Black rim fabric			
12	Black lining			



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# Photograph of parts tested:





#### Remarks:

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