



# TEST REPORT

**Report No.** ..... : WTF23F05102611C  
**Applicant** ..... : Mid Ocean Brands B.V.  
**Address** ..... : 7/F., Kings Tower, 111 King Lam Street, Cheung Sha Wan,  
Kowloon, Hong Kong  
**Manufacturer** ..... : 116737  
**Sample Name** ..... : Picnic cooler bag  
**Sample Model** ..... : MO6167  
**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) 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.  
**Test Conclusion** ..... : Refer to next page (s)  
**Date of Receipt sample** ..... : 2023-05-11  
**Testing period** ..... : 2023-05-11 to 2023-05-22  
**Date of Issue** ..... : 2023-05-23  
**Test Result** ..... : Refer to next page (s)  
**Note** ..... : As specified by client, only test the designated sample.

## Prepared By:

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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.

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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.

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

Test Item	LOQ (mg/kg)	Results (mg/kg)			Limit (mg/kg)
		No.6+No.7	No.8+No.9	No.10	
Lead(Pb)	2	ND*	ND*	ND	500
Conclusion	--	Pass	Pass	Pass	--

Test Item	LOQ (mg/kg)	Results (mg/kg)			Limit (mg/kg)
		No.11+No.12	No.13	No.14	
Lead(Pb)	2	59*	ND	ND	500
Conclusion	--	Pass	Pass	Pass	--

Test Item	LOQ (mg/kg)	Results (mg/kg)			Limit (mg/kg)
		No.15	No.16	No.17+No.18	
Lead(Pb)	2	ND	27	ND*	500
Conclusion	--	Pass	Pass	Pass	--

Test Item	LOQ (mg/kg)	Results (mg/kg)		Limit (mg/kg)
		No.19	No.20+No.21+No.22	
Lead(Pb)	2	ND	ND*	500
Conclusion	--	Pass	Pass	--

Test Item	LOQ (mg/kg)	Results (mg/kg)		Limit (mg/kg)
		No.23	No.24	
Lead(Pb)	2	ND	115	500
Conclusion	--	Pass	Pass	--



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**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.

Test Item	LOQ (mg/kg)	Results (mg/kg)		
		No.11+No.12	No.23	No.24
Cadmium(Cd)	2	ND*	ND	ND
Conclusion	--	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.



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### 3) Phthalates

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

Test Items	LOQ (%)	Results (%)			Limit (%)
		No.11+No.12	No.23	No.24	
Benzyl butyl phthalate (BBP)	0.005	ND*	ND	ND	sum of four phthalates < 0.1
Di (2-ethyl hexyl)- phthalate (DEHP)	0.005	0.047*	ND	ND	
Dibutyl phthalate (DBP)	0.005	ND*	ND	ND	
Diisobutyl phthalate (DIBP)	0.005	ND*	ND	ND	
Diisodecyl phthalate (DIDP)	0.01	ND*	ND	ND	sum of three phthalates < 0.1
Diisononyl phthalate (DINP)	0.01	ND*	ND	ND	
Di-n-octyl phthalate (DNOP)	0.005	ND*	ND	ND	
Conclusion	--	Pass	Pass	Pass	--

#### Note:

DBP= Dibutyl phthalate

BBP= Benzyl butyl phthalate

DEHP= Bis-(2-ethylhexyl)- phthalate

DINP= Di-isononyl phthalate

DNOP= Di-n-octyl phthalate

DIDP= Di-isodecyl phthalate

DIBP= Diisobutyl 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.





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#### 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 (mg/kg)	Result (mg/kg)
				No.1+No.2+No.3
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	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*
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	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	ND*
23	2,4-Xylidin	95-68-1	30	ND*
24	2,6-Xylidin	87-62-7	30	ND*
Conclusion		--	--	Pass



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No.	Amines Substances	CAS No.	Limit (mg/kg)	Result (mg/kg)	
				No.4+No.5	No.6+No.7
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-Toluyldiamine	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*
Conclusion		--	--	Pass	Pass



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No.	Amines Substances	CAS No.	Limit (mg/kg)	Result (mg/kg)	
				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-Toluyldiamine	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
Conclusion		--	--	Pass	Pass





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No.	Amines Substances	CAS No.	Limit (mg/kg)	Result (mg/kg)	
				No.19	No.20
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-diaminoanisole	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-Toluyldiamine	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
Conclusion		--	--	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 Fastness to Rubbing					
(ISO 105-X12: 2016; Size of rubbing finger: 16mm diameter.)					
		No.1	No.2	No.3	Client's Limit
Length	Dry staining	4-5	4-5	3-4	2-3
	Wet staining	4-5	4-5	4	2-3
Width	Dry staining	--	--	--	2-3
	Wet staining	--	--	--	2-3
Conclusion		Pass	Pass	Pass	--

Colour Fastness to Rubbing					
(ISO 105-X12: 2016; Size of rubbing finger: 16mm diameter.)					
		No.4+No.5	No.6+No.7	No.8	Client's Limit
Length	Dry staining	4-5*	4-5*	4-5	2-3
	Wet staining	4-5*	4-5*	4	2-3
Width	Dry staining	--	--	--	2-3
	Wet staining	--	--	--	2-3
Conclusion		Pass	Pass	Pass	--

Colour Fastness to Rubbing						
(ISO 105-X12: 2016; Size of rubbing finger: 16mm diameter.)						
		No.9	No.10	No.19	No.20	Client's Limit
Length	Dry staining	4-5	4-5	4-5	4-5	2-3
	Wet staining	4	4-5	4-5	4-5	2-3
Width	Dry staining	--	--	--	--	2-3
	Wet staining	--	--	--	--	2-3
Conclusion		Pass	Pass	Pass	Pass	Pass

### 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) "\*" = As per applicant's requirement, the testing was conducted based on mixed components.





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**Description for Specimen:**

Specimen No.	Specimen Description
1	Grey webbing
2	Black webbing
3	Black rim fabric
4	Grey elastic band
5	Grey net fabric
6	Black elastic band
7	Black net fabric
8	Grey main fabric
9	Dark blue main fabric
10	Black net fabric
11	Black plastic buckle
12	Black plastic shell
13	Black drawstring
14	Black plastic zipper tooth
15	Black zipper fabric
16	Silvery metal zipper head
17	Black plastic hook(VELCRO)
18	Black plastic loop(VELCRO)
19	Black elastic band
20	Black lining
21	Black rim fabric
22	Grey rim fabric
23	Grey thermal insulation material
24	Brown plastic dish



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**Photograph of parts tested:**







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Remarks:

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

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