



# TEST REPORT

**Report No.** ..... : WTF22F10215390C  
**Applicant** ..... : Mid Ocean Brands B.V.  
**Address** ..... : 7/F., Kings Tower, 111 King Lam Street, Cheung Sha Wan,  
Kowloon, Hong Kong  
**Manufacturer** ..... : 114284  
**Sample Name** ..... : 600D sportsbag  
**Sample Model** ..... : MO9013  
**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** ..... : 2022-10-28  
**Testing period** ..... : 2022-10-28 to 2022-11-04  
**Date of Issue** ..... : 2022-11-08  
**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  
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Waltek Testing Group (Foshan) Co., Ltd.

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Sample photo:



MO9013

# WALTEK



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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<br>(mg/kg) | Results (mg/kg) |      |           | Limit<br>(mg/kg) |
|------------|----------------|-----------------|------|-----------|------------------|
|            |                | No.1+No.2+No.3  | No.4 | No.5+No.6 |                  |
| Lead(Pb)   | 2              | ND*             | ND   | 35*       | 500              |
| Conclusion | --             | Pass            | Pass | Pass      | --               |

| Test Item  | LOQ<br>(mg/kg) | Results (mg/kg) |                      |       | Limit<br>(mg/kg) |
|------------|----------------|-----------------|----------------------|-------|------------------|
|            |                | No.7+No.8       | No.9+No.10<br>+No.11 | No.12 |                  |
| Lead(Pb)   | 2              | ND*             | ND*                  | ND    | 500              |
| Conclusion | --             | Pass            | Pass                 | Pass  | --               |

| Test Item  | LOQ<br>(mg/kg) | Results (mg/kg) |       |       | Limit<br>(mg/kg) |
|------------|----------------|-----------------|-------|-------|------------------|
|            |                | No.13           | No.14 | No.15 |                  |
| Lead(Pb)   | 2              | 21              | ND    | ND    | 500              |
| 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 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<br>(mg/kg) | Results (mg/kg) |             |             |
|-------------------|----------------|-----------------|-------------|-------------|
|                   |                | No.1+No.2+No.3  | No.4        | No.5+No.6   |
| Cadmium(Cd)       | 2              | ND*             | ND          | ND*         |
| <b>Conclusion</b> | --             | <b>Pass</b>     | <b>Pass</b> | <b>Pass</b> |

| Test Item         | LOQ<br>(mg/kg) | Results (mg/kg) |                  |             |
|-------------------|----------------|-----------------|------------------|-------------|
|                   |                | No.7+No.8       | No.9+No.10+No.11 | No.12       |
| Cadmium(Cd)       | 2              | ND*             | ND*              | ND          |
| <b>Conclusion</b> | --             | <b>Pass</b>     | <b>Pass</b>      | <b>Pass</b> |

| Test Item         | LOQ<br>(mg/kg) | Results (mg/kg) |             |             |
|-------------------|----------------|-----------------|-------------|-------------|
|                   |                | No.13           | No.14       | No.15       |
| Cadmium(Cd)       | 2              | ND              | ND          | ND          |
| <b>Conclusion</b> | --             | <b>Pass</b>     | <b>Pass</b> | <b>Pass</b> |

### 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<br>(%) | Results<br>(%) |             | Limit<br>(%)                     |
|---|------------|----------------|-------------|----------------------------------|
|   |            | No.4           | No.5+No.6   |                                  |
| Benzyl butyl phthalate (BBP)            | 0.005      | ND             | ND*         | sum of four<br>phthalates < 0.1  |
| Di (2-ethyl hexyl)- phthalate<br>(DEHP) | 0.005      | ND             | 0.013*      |                                  |
| Dibutyl phthalate (DBP)                 | 0.005      | ND             | ND*         |                                  |
| Diisobutyl phthalate (DIBP)             | 0.005      | ND             | ND*         |                                  |
| Diisodecyl phthalate (DIDP)             | 0.01       | ND             | ND*         | sum of three<br>phthalates < 0.1 |
| Diisononyl phthalate (DINP)             | 0.01       | ND             | ND*         |                                  |
| Di-n-octyl phthalate (DNOP)             | 0.005      | ND             | ND*         |                                  |
| <b>Conclusion</b>                       | --         | <b>Pass</b>    | <b>Pass</b> | --                               |

#### 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.



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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<br>(mg/kg) | Result (mg/kg)   |
|------------|---|----------|------------------|------------------|
|            |   |          |                  | No.9+No.10+No.11 |
| 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-Toluyldiamine                         | 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.12          |
| 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-Toluyldiamine                         | 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           |

**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 | No.9 | No.10 | Client's Limit |
| Length  | Dry staining | 4-5*           | 4-5  | 4-5   | 2-3            |
|   | Wet staining | 4-5*           | 4-5  | 4-5   | 2-3            |
| Width   | Dry staining | 4-5*           | 4-5  | 4-5   | 2-3            |
|   | Wet staining | 4-5*           | 4-5  | 4-5   | 2-3            |
| Conclusion  |              | Pass           | Pass | Pass  | --             |

| Colour Fastness to Rubbing                                  |              |       |       |       |                |
|---|--------------|-------|-------|-------|----------------|
| (ISO 105-X12: 2016; Size of rubbing finger: 16mm diameter.) |              |       |       |       |                |
|   |              | No.11 | No.12 | No.14 | Client's Limit |
| Length  | Dry staining | 4-5   | 4-5   | 4-5   | 2-3            |
|   | Wet staining | 4-5   | 4-5   | 4-5   | 2-3            |
| Width   | Dry staining | 4-5   | 4-5   | 4-5   | 2-3            |
|   | Wet staining | 4-5   | 4-5   | 4-5   | 2-3            |
| Conclusion  |              | 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            | Black net fabric                             |
| 2            | Black fabric rim                             |
| 3            | Black drawstring                             |
| 4            | Black plastic foot pad                       |
| 5            | Black plastic buckle                         |
| 6            | Black plastic buckle                         |
| 7            | Black plastic hook(VELCRO)                   |
| 8            | Black plastic loop(VELCRO)                   |
| 9            | Black webbing                                |
| 10           | Black lining                                 |
| 11           | Black main fabric                            |
| 12           | Black main fabric                            |
| 13           | Silvery metal zipper head with black coating |
| 14           | Black zipper fabric                          |
| 15           | Black plastic zipper tooth                   |





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Photograph of parts tested:





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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;
3. The report would be invalid without specific stamp of test institute and the signatures of compiler and approver;
4. The Applicant name and Address, the sample(s) and sample information was/were provided by the applicant who should be responsible for the authenticity which Waltek hasn't verified;
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===== End of Report =====

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