



# TEST REPORT

Report No. .... : WTF24F04083513C

Applicant ..... : Mid Ocean Brands B.V.

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

Manufacturer ..... : 118783

Sample Name ..... : T-shirts

Sample Model ..... : SG1003

Test Requested ..... : Refer to next page (s)

Test Method ..... : Refer to next page (s)

Test Conclusion ..... : **Pass** (Please refer to next pages for details)

Date of Receipt sample ..... : 2024-04-15

Testing period ..... : 2024-04-15 to 2024-04-22

Date of Issue ..... : 2024-04-23

Test Result ..... : Refer to next page (s)

Note ..... : 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



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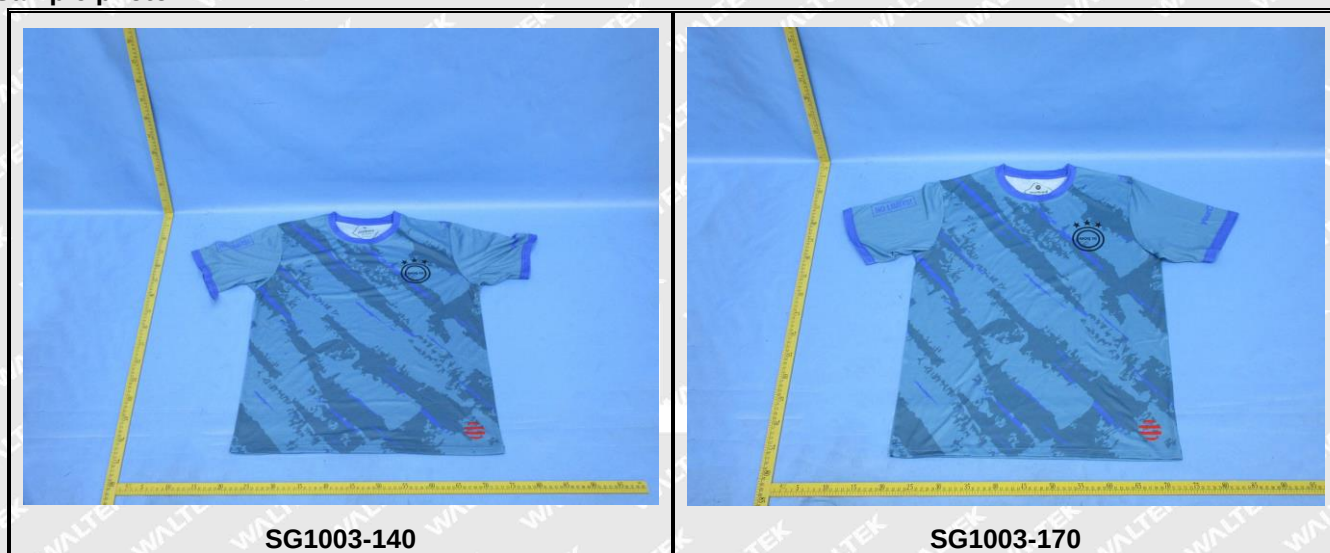
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### Summary

| Item No. | Test Requested                                                                                                                                                                                                                                                                  | Test Conclusion |
|----------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|
| 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                                                                                             | Pass            |
| 2        | 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). | Pass            |
| 3        | As requested by the applicant, to test Colour Fastness to Rubbing in the submitted sample.                                                                                                                                                                                      | Pass            |

### 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<br>(mg/kg) | Results (mg/kg) |           | Limit<br>(mg/kg) |
|------------|----------------|-----------------|-----------|------------------|
|            |                | No.1+No.2+No.3  | No.4+No.5 |                  |
| Lead(Pb)   | 2              | ND*             | ND*       | 500              |
| Conclusion | --             | 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) 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      |
| 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.
- “\*” = Results are calculated by the minimum weight of mixed components.



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### 3) 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.4 | No.5 | Client's Limit |
| Length                                                      | Dry staining | 4-5  | 4-5  | 4-5  | 4-5  | 4-5  | 2-3            |
|                                                             | Wet staining | 4-5  | 4-5  | 4-5  | 4-5  | 4-5  | 2-3            |
| Width                                                       | Dry staining | 4-5  | 4-5  | 4-5  | 4-5  | 4-5  | 2-3            |
|                                                             | Wet staining | 4-5  | 4-5  | 4-5  | 4-5  | 4-5  | 2-3            |
| Conclusion                                                  |              | Pass | Pass | Pass | Pass | Pass | --             |

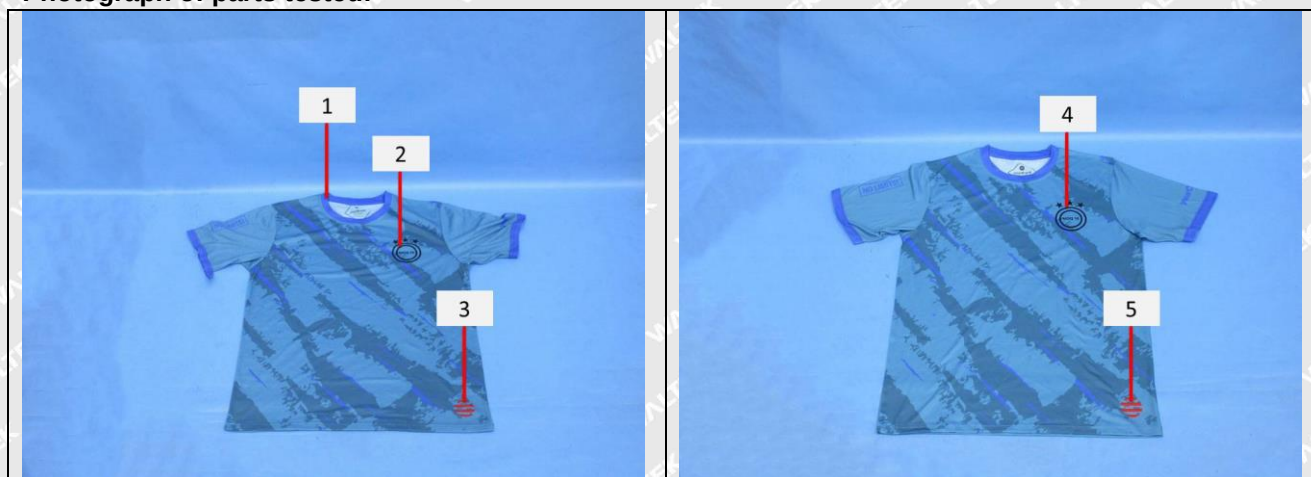
#### Note:

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

#### Description for Specimen:

| Specimen No. | Specimen Description   |
|--------------|------------------------|
| 1            | Blue fabric rim        |
| 2            | Multicolor main fabric |
| 3            | Multicolor main fabric |
| 4            | Multicolor main fabric |
| 5            | Multicolor main fabric |

#### 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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6. The sample material information (Model No. information) is provided by client, not verified by test laboratory. The samples of reference Model No. are not tested. Test laboratory not responsible for the accuracy, appropriateness, completeness and authenticity of the information provided by client.

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

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