



中国认可  
国际互认  
检测  
TESTING  
CNAS L6478



# TEST REPORT

**Report No.** ..... : WTF23F03041747A4R2C  
**Applicant** ..... : Mid Ocean Brands B.V.  
**Address** ..... : 7/F., Kings Tower, 111 King Lam Street, Cheung Sha Wan,  
Kowloon, Hong Kong  
**Manufacturer** ..... : 103369  
**Sample Name** ..... : Refer to next page (s)  
**Sample Model** ..... : Refer to next page (s)  
**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).  
**Test Conclusion** ..... : Refer to next page (s)  
**Date of Receipt sample** ..... : 2023-03-07 & 2023-04-03 & 2023-04-21 & 2023-05-05  
**Testing period** ..... : 2023-03-07 to 2023-05-12  
**Date of Issue** ..... : 2023-05-31  
**Test Result** ..... : Refer to next page (s)  
**Note** ..... : 1) As specified by client, only test the designated sample.  
2) As per client's requirement, all results of specimen are  
quoted from report No.WTF23F03041747A4C.

**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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| Specimen No. | Specimen Description                    | Sample Name | Sample Model                        |
|--------------|-----------------------------------------|-------------|-------------------------------------|
| 1            | Black synthetic leather                 | MO8406      | Business gift set                   |
| 2            | Silvery metal shell                     |             |                                     |
| 3            | Black flannel                           |             |                                     |
| 4            | Black synthetic leather                 |             |                                     |
| 5            | Silvery metal ring                      |             |                                     |
| 6            | Silvery metal handle                    |             |                                     |
| 7            | Silvery metal refill                    |             |                                     |
| 8            | Blue ink                                |             |                                     |
| 9            | Blue plastic cap                        |             |                                     |
| 10           | Silvery metal cap                       |             |                                     |
| 11           | White plastic cap                       |             |                                     |
| 12           | Silvery metal barrel                    |             |                                     |
| 13           | Silvery metal cap with black coating    |             |                                     |
| 14           | Silvery metal clip                      |             |                                     |
| 15           | Black synthetic leather                 | KC7109      | Ball pen key ring and PU wallet set |
| 16           | Silvery metal sheet                     |             |                                     |
| 17           | Black lining                            |             |                                     |
| 18           | Black net fabric                        |             |                                     |
| 19           | Black synthetic leather rim             |             |                                     |
| 20           | Black synthetic leather                 |             |                                     |
| 21           | Silvery metal shell                     |             |                                     |
| 22           | Silvery metal screw                     |             |                                     |
| 23           | Silvery metal ring                      |             |                                     |
| 24           | Silvery metal screw                     |             |                                     |
| 25           | Silvery metal cap                       |             |                                     |
| 26           | Silvery metal barrel with black coating |             |                                     |
| 27           | Golden metal screw                      |             |                                     |
| 28           | Silvery metal cap                       |             |                                     |
| 29           | Silvery metal screw                     |             |                                     |

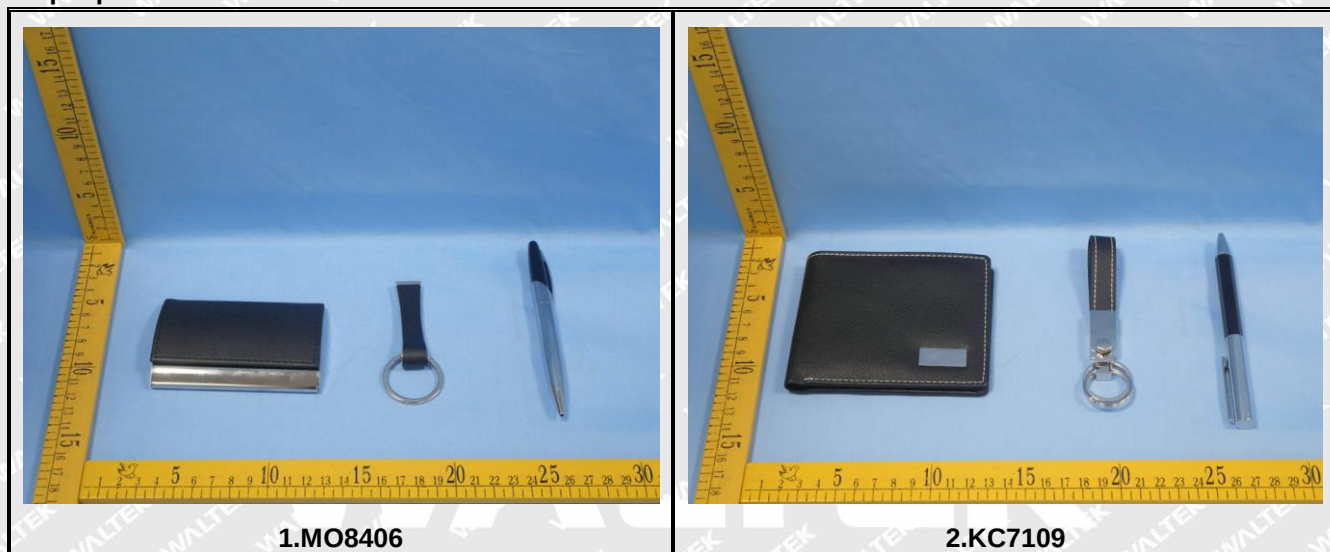




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| Specimen No. | Specimen Description | Sample Name | Sample Model |
|--------------|----------------------|-------------|--------------|
| 30           | Silvery metal clip   |             |              |
| 31           | Silvery metal spring |             |              |
| 32           | Silvery metal refill |             |              |
| 33           | Blue ink             |             |              |
| 34           | Black plastic cap    |             |              |

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.4+No.15 | No.2+No.5+No.6 |                  |
| Lead(Pb)   | 2              | ND*             | 20*            | 500              |
| Conclusion | --             | Pass            | Pass           | --               |

| Test Item  | LOQ<br>(mg/kg) | Results (mg/kg)  |            | Limit<br>(mg/kg) |
|------------|----------------|------------------|------------|------------------|
|            |                | No.3+No.17+No.20 | No.7+No.32 |                  |
| Lead(Pb)   | 2              | ND*              | ND*        | 500              |
| Conclusion | --             | Pass             | Pass       | --               |

| Test Item  | LOQ<br>(mg/kg) | Results (mg/kg) |                  | Limit<br>(mg/kg) |
|------------|----------------|-----------------|------------------|------------------|
|            |                | No.8+No.33      | No.9+No.11+No.34 |                  |
| Lead(Pb)   | 2              | ND*             | ND*              | 500              |
| Conclusion | --             | Pass            | Pass             | --               |

| Test Item  | LOQ<br>(mg/kg) | Results (mg/kg)   |       | Limit<br>(mg/kg) |
|------------|----------------|-------------------|-------|------------------|
|            |                | No.10+No.12+No.14 | No.13 |                  |
| Lead(Pb)   | 2              | ND*               | ND    | 500              |
| Conclusion | --             | Pass              | Pass  | --               |

| Test Item  | LOQ<br>(mg/kg) | Results (mg/kg)   |             | Limit<br>(mg/kg) |
|------------|----------------|-------------------|-------------|------------------|
|            |                | No.16+No.21+No.22 | No.18+No.19 |                  |
| Lead(Pb)   | 2              | ND*               | ND*         | 500              |
| Conclusion | --             | Pass              | Pass        | --               |

| Test Item  | LOQ<br>(mg/kg) | Results (mg/kg) |       |       | Limit<br>(mg/kg) |
|------------|----------------|-----------------|-------|-------|------------------|
|            |                | No.23           | No.24 | No.25 |                  |
| Lead(Pb)   | 2              | ND              | ND    | 61    | 500              |
| Conclusion | --             | Pass            | Pass  | Pass  | --               |



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| Test Item  | LOQ<br>(mg/kg) | Results (mg/kg) |       |       | Limit<br>(mg/kg) |
|------------|----------------|-----------------|-------|-------|------------------|
|            |                | No.26           | No.27 | No.28 |                  |
| Lead(Pb)   | 2              | ND              | 80    | ND    | 500              |
| Conclusion | --             | Pass            | Pass  | Pass  | --               |

| Test Item  | LOQ<br>(mg/kg) | Results (mg/kg) |       |       | Limit<br>(mg/kg) |
|------------|----------------|-----------------|-------|-------|------------------|
|            |                | No.29           | No.30 | No.31 |                  |
| Lead(Pb)   | 2              | 57              | 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.
- (6) The test sample of specimen No.13 and from No.23 to No.30 are received on the date of 2023-04-21.

## 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.4+No.15 | No.2+No.5+No.6 | No.3+No.17+No.20 |
| Cadmium(Cd) | 2              | ND*             | ND*            | ND*              |
| Conclusion  | --             | Pass            | Pass           | Pass             |

| Test Item   | LOQ<br>(mg/kg) | Results (mg/kg) |            |                  |
|-------------|----------------|-----------------|------------|------------------|
|             |                | No.7+No.32      | No.8+No.33 | No.9+No.11+No.34 |
| Cadmium(Cd) | 2              | ND*             | ND*        | ND*              |
| Conclusion  | --             | Pass            | Pass       | Pass             |

| Test Item   | LOQ<br>(mg/kg) | Results (mg/kg)   |             |
|-------------|----------------|-------------------|-------------|
|             |                | No.10+No.12+No.14 | No.13+No.26 |
| Cadmium(Cd) | 2              | ND*               | 26*         |
| Conclusion  | --             | Pass              | Pass        |

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| Test Item   | LOQ<br>(mg/kg) | Results (mg/kg)   |             |
|-------------|----------------|-------------------|-------------|
|             |                | No.16+No.21+No.22 | No.18+No.19 |
| Cadmium(Cd) | 2              | ND*               | ND*         |
| Conclusion  | --             | Pass              | Pass        |

| Test Item   | LOQ<br>(mg/kg) | Results (mg/kg)   |       |
|-------------|----------------|-------------------|-------|
|             |                | No.23+No.24+No.25 | No.27 |
| Cadmium(Cd) | 2              | 24*               | 19    |
| Conclusion  | --             | Pass              | Pass  |

| Test Item   | LOQ<br>(mg/kg) | Results (mg/kg)   |       |
|-------------|----------------|-------------------|-------|
|             |                | No.28+No.29+No.30 | No.31 |
| Cadmium(Cd) | 2              | 27*               | ND    |
| 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 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.13 and from No.23 to No.30 are received on the date of 2023-03-07.



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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.9+No.11+No.34 |                                  |
| Benzyl butyl phthalate (BBP)            | 0.005      | ND*              | sum of four<br>phthalates < 0.1  |
| Di (2-ethyl hexyl)- phthalate<br>(DEHP) | 0.005      | ND*              |                                  |
| Dibutyl phthalate (DBP)                 | 0.005      | ND*              |                                  |
| Diisobutyl phthalate (DIBP)             | 0.005      | ND*              |                                  |
| Diisodecyl phthalate (DIDP)             | 0.01       | ND*              | sum of three<br>phthalates < 0.1 |
| Diisononyl phthalate (DINP)             | 0.01       | ND*              |                                  |
| Di-n-octyl phthalate (DNOP)             | 0.005      | ND*              |                                  |
| <b>Conclusion</b>                       | --         | <b>Pass</b>      | --                               |

#### 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.4+No.15 |
| 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            |





Report No.: WTF23F03041747A4R2C

| No.        | Amines Substances                         | CAS No.  | Limit<br>(mg/kg) | Result (mg/kg)   |
|------------|-------------------------------------------|----------|------------------|------------------|
|            |                                           |          |                  | No.3+No.17+No.20 |
| 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             |



Report No.: WTF23F03041747A4R2C

| No.        | Amines Substances                         | CAS No.  | Limit (mg/kg) | Result (mg/kg) |
|------------|-------------------------------------------|----------|---------------|----------------|
|            |                                           |          |               | No.18+No.19    |
| 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:**

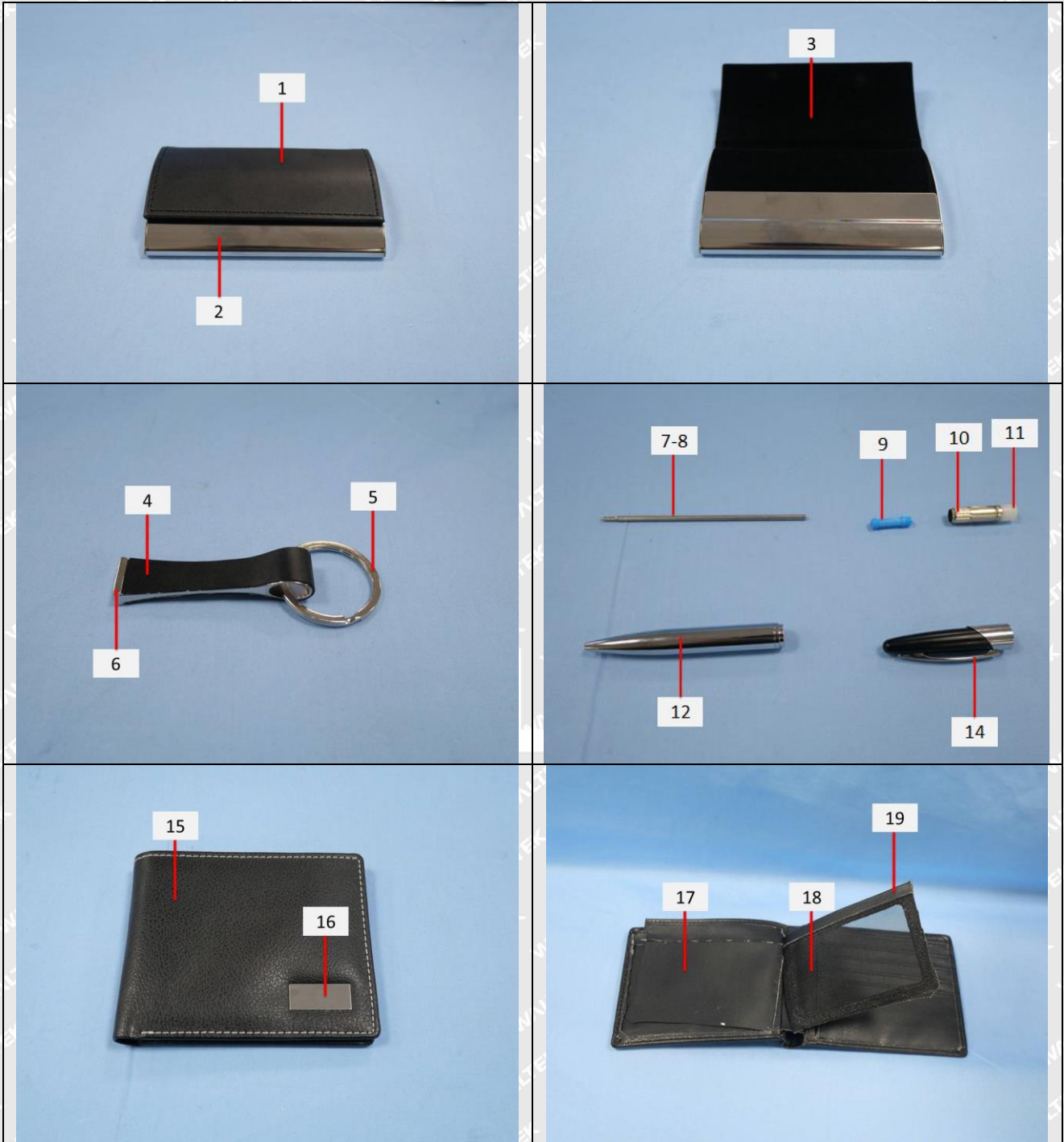
- ND = Not Detected or lower than limit of quantitation
- mg/kg=Milligram per kilogram
- Limit of quantitation (mg/kg): Each 5mg/kg
- The CAS-numbers 97-56-3 and 99-55-8 are further reduced to CAS-numbers 95-53-4 and 95-80-7.
- AZO colorants that are able to form 4-aminoazobenzene, generate under the 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.





Report No.: WTF23F03041747A4R2C

Photograph of parts tested:





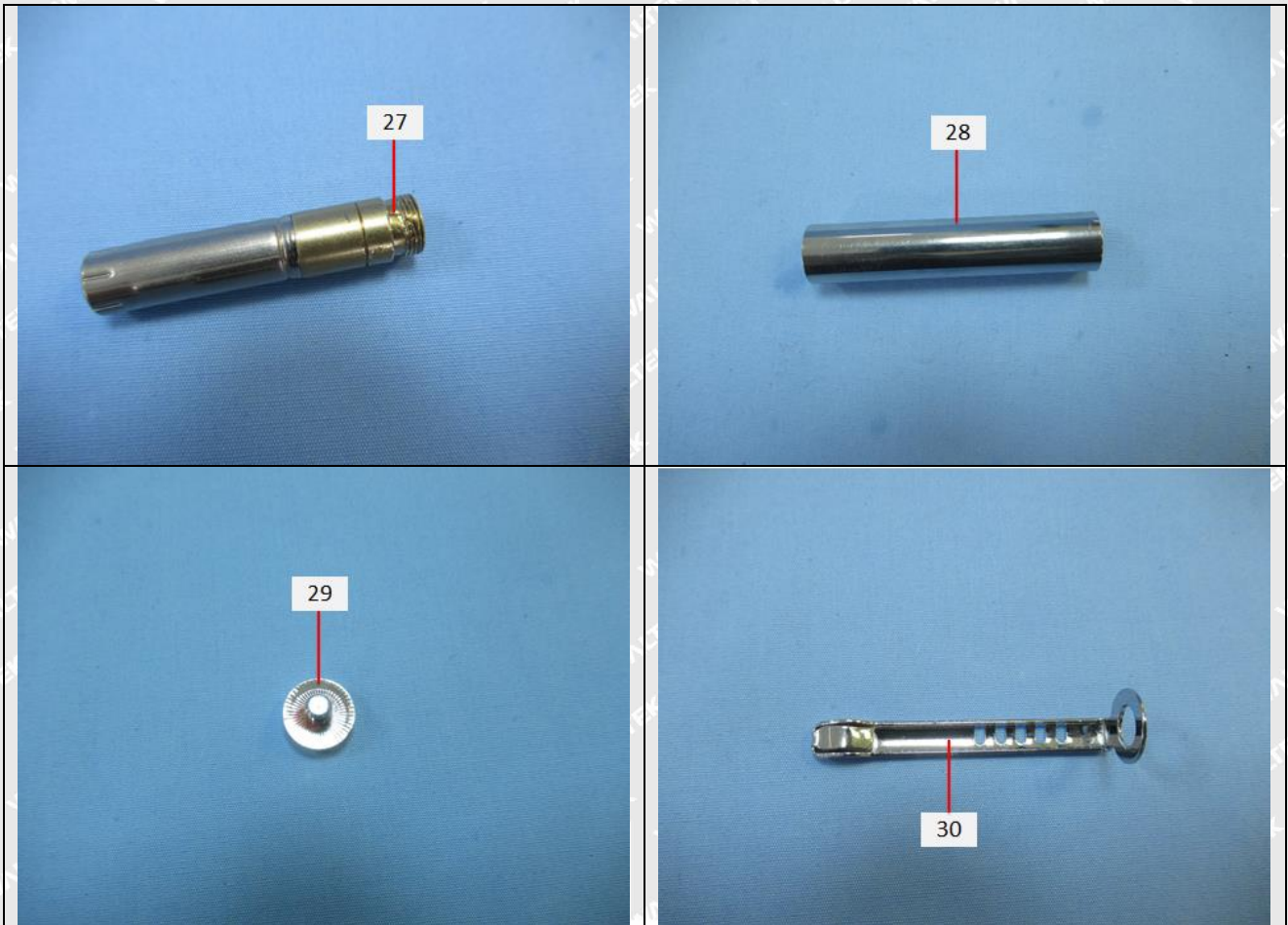
Report No.: WTF23F03041747A4R2C







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Report No.: WTF23F03041747A4R2C

Remarks:

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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 =====

# WALTEK



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## Test Report

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Report No. : AGC05443240831-001

**SAMPLE NAME** : Ball pen, key ring and wallet set  
**MODEL NAME** : KC7109  
**APPLICANT** : MID OCEAN BRANDS B.V.  
**STANDARD(S)** : Please refer to the following page(s).  
**DATE OF ISSUE** : Sep. 20, 2024

**Attestation of Global Compliance (Shenzhen) Std & Tech Co., Ltd.**



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Report No.: AGC05443240831-001

Applicant : MID OCEAN BRANDS B.V.  
Address : 7/F, Kings Tower, 111 King Lam Street, Cheung Sha Wan, Kowloon, Hong Kong.  
Test Site : 6/F., Building 2, Sanwei Chaxi Industrial Park, Sanwei Community, Hangcheng Street,  
Bao'an District, Shenzhen, Guangdong, China

**Report on the submitted sample(s) said to be:**

Sample Name : Ball pen, key ring and wallet set  
Model : KC7109  
Vendor code : 103369  
Country of Origin : CHINA  
Country of Destination : EUROPE  
Sample Received Date : Aug. 23, 2024  
Testing Period : Aug. 23, 2024 to Sep. 18, 2024  
Test Requested : Selected test(s) as requested by client.

**Test Requested:**

Annex XVII of the REACH Regulation (EC) No 1907/2006, entry 27  
- Nickel Release

**Conclusion**

Pass

Approved by: 

Suhongliang, Leon

Technical Director

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Attestation of Global Compliance(Shenzhen)Co., Ltd

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## Report Revise Record

| Report Version | Issued Date   | Valid Version | Notes           |
|----------------|---------------|---------------|-----------------|
| /              | Sep. 20, 2024 | Valid         | Initial release |

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### The photo of the sample



The photo of AGC05443240831-001 is for use only with the original report.

### Test Point Description

| Test point | Test point description |
|------------|------------------------|
| 1-1        | Metal nib              |
| 1-2        | Metal tube(tail)       |
| 1-3        | Metal cap(top of tail) |
| 1-4        | Metal tube(grip)       |
| 1-5        | Metal clip             |

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### Test Results:

Note: N.D.=Not Detected (less than method detection limit), MDL = Method Detection Limit, 1mg/kg=0.0001%  
Unless otherwise stated, the decision rule for conformity reporting is based on Binary Statement for Simple Acceptance Rule (w=0) stated in ILAC-G8:09/2019/CNAS-GL015:2022.

### Annex XVII of the REACH Regulation (EC) No 1907/2006, entry 27

#### - Nickel Release

Test Methods and Equipment: EN 12472:2020 & EN 1811:2023; ICP-OES

| Test Point(s) | Parallel Sample | Unit                                                      | Limit | MDL  | Test Result(s)<br>Nickel Release | Conclusion |
|---------------|-----------------|-----------------------------------------------------------|-------|------|----------------------------------|------------|
| 1-1           | A               | $\mu\text{g} \cdot \text{cm}^{-2} \cdot \text{week}^{-1}$ | 0.5   | 0.05 | N.D.                             | Conformity |
|               | B               | $\mu\text{g} \cdot \text{cm}^{-2} \cdot \text{week}^{-1}$ | 0.5   | 0.05 | N.D.                             |            |
|               | C               | $\mu\text{g} \cdot \text{cm}^{-2} \cdot \text{week}^{-1}$ | 0.5   | 0.05 | N.D.                             |            |
| 1-2           | A               | $\mu\text{g} \cdot \text{cm}^{-2} \cdot \text{week}^{-1}$ | 0.5   | 0.05 | N.D.                             | Conformity |
|               | B               | $\mu\text{g} \cdot \text{cm}^{-2} \cdot \text{week}^{-1}$ | 0.5   | 0.05 | N.D.                             |            |
|               | C               | $\mu\text{g} \cdot \text{cm}^{-2} \cdot \text{week}^{-1}$ | 0.5   | 0.05 | N.D.                             |            |
| 1-3           | A               | $\mu\text{g} \cdot \text{cm}^{-2} \cdot \text{week}^{-1}$ | 0.5   | 0.05 | N.D.                             | Conformity |
|               | B               | $\mu\text{g} \cdot \text{cm}^{-2} \cdot \text{week}^{-1}$ | 0.5   | 0.05 | N.D.                             |            |
|               | C               | $\mu\text{g} \cdot \text{cm}^{-2} \cdot \text{week}^{-1}$ | 0.5   | 0.05 | N.D.                             |            |
| 1-4           | A               | $\mu\text{g} \cdot \text{cm}^{-2} \cdot \text{week}^{-1}$ | 0.5   | 0.05 | N.D.                             | Conformity |
|               | B               | $\mu\text{g} \cdot \text{cm}^{-2} \cdot \text{week}^{-1}$ | 0.5   | 0.05 | N.D.                             |            |
|               | C               | $\mu\text{g} \cdot \text{cm}^{-2} \cdot \text{week}^{-1}$ | 0.5   | 0.05 | N.D.                             |            |
| 1-5           | A               | $\mu\text{g} \cdot \text{cm}^{-2} \cdot \text{week}^{-1}$ | 0.5   | 0.05 | N.D.                             | Conformity |
|               | B               | $\mu\text{g} \cdot \text{cm}^{-2} \cdot \text{week}^{-1}$ | 0.5   | 0.05 | N.D.                             |            |
|               | C               | $\mu\text{g} \cdot \text{cm}^{-2} \cdot \text{week}^{-1}$ | 0.5   | 0.05 | N.D.                             |            |

Remark: The samples of the following test points were resubmitted on September 10, 2024:1-2

#### Limit requirements of Nickel Release

| Nickel Release                                                                                    |                                                                |                                                                    |
|---------------------------------------------------------------------------------------------------|----------------------------------------------------------------|--------------------------------------------------------------------|
| Type of sample                                                                                    | Pass                                                           | Fail                                                               |
| Article with Nickel release limit of $0.5\mu\text{g}/\text{cm}^2/\text{week}$ (Non-body piercing) | $<0.88\mu\text{g} \cdot \text{cm}^{-2} \cdot \text{week}^{-1}$ | $\geq 0.88\mu\text{g} \cdot \text{cm}^{-2} \cdot \text{week}^{-1}$ |
| Article with Nickel release limit of $0.2\mu\text{g}/\text{cm}^2/\text{week}$ (Body piercing)     | $<0.35\mu\text{g} \cdot \text{cm}^{-2} \cdot \text{week}^{-1}$ | $\geq 0.35\mu\text{g} \cdot \text{cm}^{-2} \cdot \text{week}^{-1}$ |

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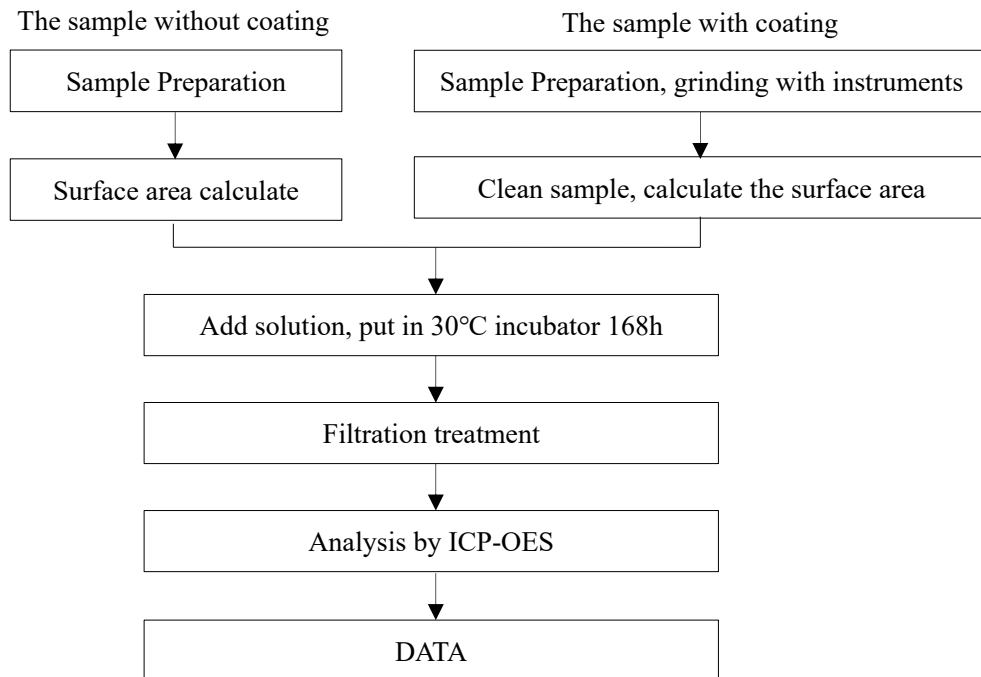
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### Test Flow Chart of Nickel Release



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## Conditions of Issuance of Test Reports

1. All samples and goods are accepted by the Attestation of Global Compliance (Shenzhen) Std & Tech Co., Ltd. (the "Company") solely for testing and reporting in accordance with the following terms and conditions. The company provides its services on the basis that such terms and conditions constitute express agreement between the company and any person, firm or company requesting its services (the "Clients").
2. Any report issued by Company as a result of this application for testing services (the "Report") shall be issued in confidence to the Clients and the Report will be strictly treated as such by the Company. It may not be reproduced either in its entirety or in part and it may not be used for advertising or other unauthorized purposes without the written consent of the Company. The Clients to whom the Report is issued may, however, show or send it, or a certified copy thereof prepared by the Company to its customer, supplier or other persons directly concerned. The Company will not, without the consent of the Clients, enter into any discussion or correspondence with any third party concerning the contents of the Report, unless required by the relevant governmental authorities, laws or court orders.
3. The Company shall not be called or be liable to be called to give evidence or testimony on the Report in a court of law without its prior written consent, unless required by the relevant governmental authorities, laws or court orders.
4. In the event of the improper use of the report as determined by the Company, the Company reserves the right to withdraw it, and to adopt any other additional remedies which may be appropriate.
5. Samples submitted for testing are accepted on the understanding that the Report issued cannot form the basis of, or be the instrument for, any legal action against the Company.
6. The Company will not be liable for or accept responsibility for any loss or damage however arising from the use of information contained in any of its Reports or in any communication whatsoever about its said tests or investigations.
7. Clients wishing to use the Report in court proceedings or arbitration shall inform the Company to that effect prior to submitting the sample for testing.
8. The Company is not responsible for recalling the electronic version of the original report when any revision is made to them. The Client assumes the responsibility to providing the revised version to any interested party who uses them.
9. Subject to the variable length of retention time for test data and report stored hereinto as otherwise specifically required by individual accreditation authorities, the Company will only keep the supporting test data and information of the test report for a period of six years. The data and information will be disposed of after the aforementioned retention period has elapsed. Under no circumstances shall we provide any data and information which has been disposed of after retention period. Under no circumstances shall we be liable for damage of any kind, including (but not limited to) compensatory damages, lost profits, lost data, or any form of special, incidental, indirect, consequential or punitive damages of any kind, whether based on breach of contract of warranty, tort (including negligence), product liability or otherwise, even if we are informed in advance of the possibility of such damages.

\*\*\* End of Report \*\*\*

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