



# TEST REPORT

Report No. .... : WTF24F05106033A2C

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

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

Manufacturer ..... : 118966

Sample Name ..... : Refer to next page (s)

Sample Model ..... : Refer to next page (s)

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 ..... : 2024-05-09 & 2024-05-20 & 2024-05-30

Testing period ..... : 2024-05-09 to 2024-05-14 & 2024-05-20 to 2024-05-28 &  
2024-05-30 to 2024-06-05

Date of Issue ..... : 2024-06-05

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

## 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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**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        | 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                                                              | Pass            |
| 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                                                                                                         | Pass            |
| 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). | Pass            |
| 5        | Determination of specified Polycyclic Aromatic Hydrocarbons (PAHs) content in submitted sample in accordance with Entries 50 of Annex XVII of REACH Regulation (EC) No 1907/2006 and its amendment Regulation (EU) No 1272/2013.                                                | Pass            |
| 6        | As requested by the applicant, to test Colour Fastness to Rubbing in the submitted sample.                                                                                                                                                                                      | Pass            |

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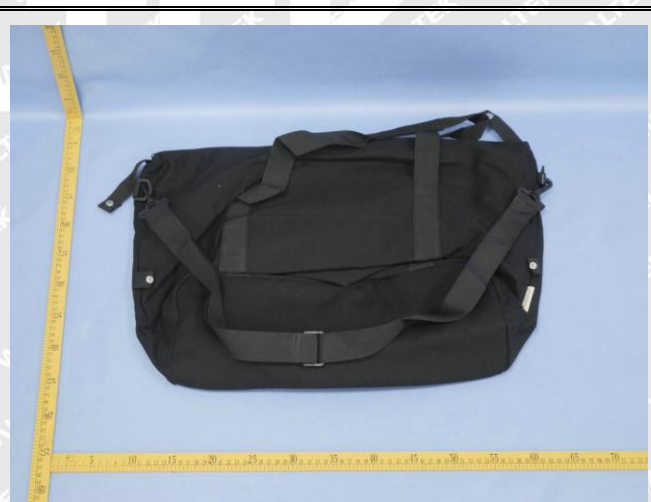
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| Specimen No. | Specimen Description                           | Sample Name     | Sample Model |
|--------------|------------------------------------------------|-----------------|--------------|
| 1            | White sponge sheet                             | Laptop backpack | MO2307       |
| 2            | Black plastic buckle                           |                 |              |
| 3            | Black net fabric                               |                 |              |
| 4            | Black webbing                                  |                 |              |
| 5            | Black main fabric                              |                 |              |
| 6            | Silvery metal zipper head with black surface   |                 |              |
| 7            | Silvery metal zipper handle with black surface |                 |              |
| 8            | Black plastic zipper tooth                     |                 |              |
| 9            | Black zipper fabric                            |                 |              |
| 10           | Black plastic hook(VELCRO)                     |                 |              |
| 11           | Black plastic loop(VELCRO)                     |                 |              |
| 12           | Black lining                                   |                 |              |
| 13           | Black fabric rim                               | Weekend bag     | MO2306       |
| 14           | Silvery metal buckle                           |                 |              |
| 15           | Black plastic buckle                           |                 |              |
| 16           | Black plastic buckle                           |                 |              |
| 17           | Black plastic buckle                           |                 |              |
| 18           | Black plastic buckle                           |                 |              |
| 19           | Silvery metal buckle                           |                 |              |

## Sample photo:



1. MO2307



2. MO2306



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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.2+No.8+No.15 | No.3+No.4+No.5 |                  |
| Lead(Pb)   | 2              | ND*             | ND*            | 500              |
| Conclusion | --             | Pass            | Pass           | --               |

| Test Item  | LOQ<br>(mg/kg) | Results (mg/kg) |      | Limit<br>(mg/kg) |
|------------|----------------|-----------------|------|------------------|
|            |                | No.6            | No.7 |                  |
| Lead(Pb)   | 2              | 21              | 16   | 500              |
| Conclusion | --             | Pass            | Pass | --               |

| Test Item  | LOQ<br>(mg/kg) | Results (mg/kg)  |             | Limit<br>(mg/kg) |
|------------|----------------|------------------|-------------|------------------|
|            |                | No.9+No.12+No.13 | No.10+No.11 |                  |
| Lead(Pb)   | 2              | ND*              | ND*         | 500              |
| Conclusion | --             | Pass             | Pass        | --               |

| Test Item  | LOQ<br>(mg/kg) | Results (mg/kg) |                   | Limit<br>(mg/kg) |
|------------|----------------|-----------------|-------------------|------------------|
|            |                | No.14           | No.16+No.17+No.18 |                  |
| Lead(Pb)   | 2              | ND              | 36*               | 500              |
| Conclusion | --             | Pass            | Pass              | --               |

| Test Item  | LOQ<br>(mg/kg) | Results (mg/kg) | Limit<br>(mg/kg) |
|------------|----------------|-----------------|------------------|
|            |                | No.19           |                  |
| Lead(Pb)   | 2              | ND              | 500              |
| Conclusion | --             | 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(s) of specimen No.5 is(are) received on the date of 2024-05-09.



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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.8+No.15 | No.6 |
| Cadmium(Cd) | 2              | ND              | ND*             | ND   |
| Conclusion  | --             | Pass            | Pass            | Pass |

| Test Item   | LOQ<br>(mg/kg) | Results (mg/kg) |                   |
|-------------|----------------|-----------------|-------------------|
|             |                | No.7            | No.16+No.17+No.18 |
| Cadmium(Cd) | 2              | ND              | 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.



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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.1           | No.2+No.8+<br>No.15 |                                  |
| 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             | ND*                 |                                  |
| 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>         | --                               |

| Test Items                           | LOQ (%) | Results (%)       | Limit (%)                     |
|--------------------------------------|---------|-------------------|-------------------------------|
|                                      |         | No.16+No.17+No.18 |                               |
| Benzyl butyl phthalate (BBP)         | 0.005   | ND*               | sum of four phthalates < 0.1  |
| Di (2-ethyl hexyl)- phthalate (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 phthalates < 0.1 |
| Diisononyl phthalate (DINP)          | 0.01    | ND*               |                               |
| Di-n-octyl phthalate (DNOP)          | 0.005   | ND*               |                               |
| Conclusion                           | --      | Pass              | --                            |



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**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.

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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.3+No.4+<br>No.5 | No.9+No.12+<br>No.13 |
| 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 test sample(s) of specimen No.5 is(are) received on the date of 2024-05-09.

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**5) Polycyclic Aromatic Hydrocarbons (PAHs)**

Test Method: With reference to AFPS GS 2019:01 PAK method, analysis was performed by Gas Chromatographic Mass Spectrometry (GC-MS).

| Test Items                     | Unit  | Results         | LOQ | Limit |
|--------------------------------|-------|-----------------|-----|-------|
|                                |       | No.2+No.8+No.15 |     |       |
| Benzo(a)anthracene (BaA)       | mg/kg | ND*             | 0.2 | 1.0   |
| Chrysene (CHR)                 | mg/kg | ND*             | 0.2 | 1.0   |
| Benzo[b]fluoranthene (BbFA)    | mg/kg | ND*             | 0.2 | 1.0   |
| Benzo[k]fluoranthene (BkFA)    | mg/kg | ND*             | 0.2 | 1.0   |
| Benzo(a)pyrene (BaP)           | mg/kg | ND*             | 0.2 | 1.0   |
| Dibenzo[a,h]anthracene (DBAhA) | mg/kg | ND*             | 0.2 | 1.0   |
| Benzo[j]fluoranthene (BjFA)    | mg/kg | ND*             | 0.2 | 1.0   |
| Benzo[e]Pyrene (BeP)           | mg/kg | ND*             | 0.2 | 1.0   |
| Conclusion                     | --    | Pass            | --  | --    |

| Test Items                     | Unit  | Results           | LOQ | Limit |
|--------------------------------|-------|-------------------|-----|-------|
|                                |       | No.16+No.17+No.18 |     |       |
| Benzo(a)anthracene (BaA)       | mg/kg | ND*               | 0.2 | 1.0   |
| Chrysene (CHR)                 | mg/kg | ND*               | 0.2 | 1.0   |
| Benzo[b]fluoranthene (BbFA)    | mg/kg | ND*               | 0.2 | 1.0   |
| Benzo[k]fluoranthene (BkFA)    | mg/kg | ND*               | 0.2 | 1.0   |
| Benzo(a)pyrene (BaP)           | mg/kg | ND*               | 0.2 | 1.0   |
| Dibenzo[a,h]anthracene (DBAhA) | mg/kg | ND*               | 0.2 | 1.0   |
| Benzo[j]fluoranthene (BjFA)    | mg/kg | ND*               | 0.2 | 1.0   |
| Benzo[e]Pyrene (BeP)           | mg/kg | ND*               | 0.2 | 1.0   |
| Conclusion                     | --    | Pass              | --  | --    |



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**Note:**

- (1) ND = Not Detected or lower than limit of quantitation
- (2) mg/kg=milligram per kilogram=ppm
- (3) LOQ = Limit of quantitation
- (4) As per Entries 50 of Annex XVII of REACH Regulation (EC) No 1907/2006 and its amendment Regulation (EU) No 1272/2013, Articles shall not be placed on the market for supply to the general public, if any of their rubber or plastic components that come into direct as well as prolonged or short-term repetitive contact with the human skin or the oral cavity, under normal or reasonably foreseeable conditions of use, contain more than 1 mg/kg (0,0001 % by weight of this component) of any of the listed PAHs.
- (5) As per Entries 50 of Annex XVII of REACH Regulation (EC) No 1907/2006 and its amendment Regulation (EU) No 1272/2013, Toys, including activity toys, and childcare articles, shall not be placed on the market, if any of their rubber or plastic components that come into direct as well as prolonged or short-term repetitive contact with the human skin or the oral cavity, under normal or reasonably foreseeable conditions of use, contain more than 0,5 mg/kg (0,00005 % by weight of this component) of any of the listed PAHs.
- (6) “\*” = Results are calculated by the minimum weight of mixed components.

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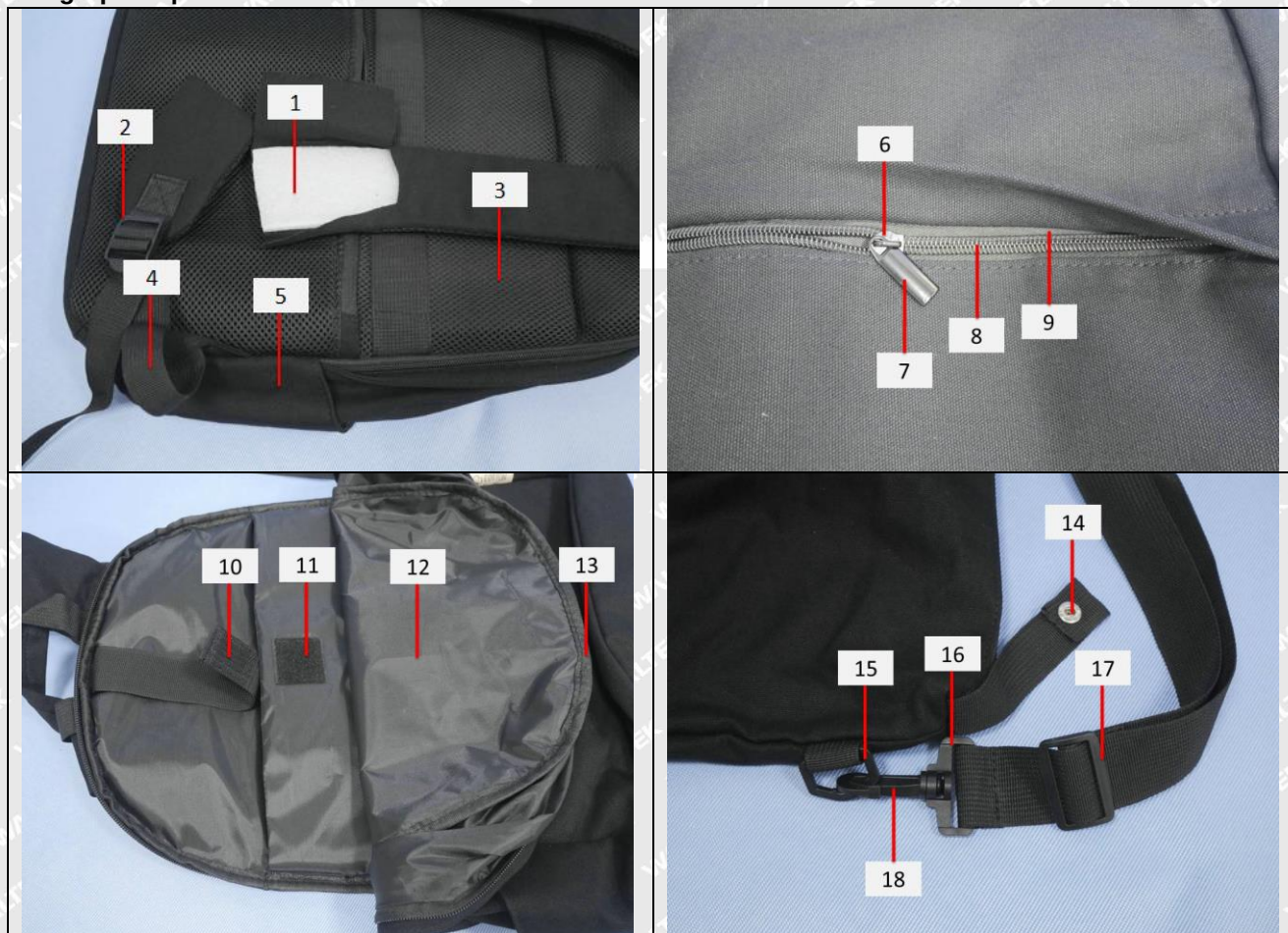
## 6) Colour Fastness to Rubbing

| Colour Fastness to Rubbing                                  |              |      |      |      |      |       |       |                |
|-------------------------------------------------------------|--------------|------|------|------|------|-------|-------|----------------|
| (ISO 105-X12: 2016; Size of rubbing finger: 16mm diameter.) |              |      |      |      |      |       |       |                |
|                                                             |              | No.3 | No.4 | No.5 | No.9 | No.12 | No.13 | Client's Limit |
| Length                                                      | Dry staining | 4-5  | 4-5  | 4-5  | 4-5  | 4-5   | 4-5   | 2-3            |
|                                                             | Wet staining | 4-5  | 4-5  | 2-3  | 4-5  | 4-5   | 4-5   | 2-3            |
| Width                                                       | Dry staining | 4-5  | --   | 4-5  | --   | 4-5   | --    | 2-3            |
|                                                             | Wet staining | 4-5  | --   | 2-3  | --   | 4-5   | --    | 2-3            |
| Conclusion                                                  |              | Pass | 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) The test sample(s) of specimen No.5 is(are) received on the date of 2024-05-30.

### Photograph of parts tested:





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Remarks:

1. The results shown in this test report refer only to the sample(s) tested;
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===== End of Report =====