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检测  
TESTING  
CNAS L0167

## Test Report

No.: GZHL241004494701HM

Date: Nov 05, 2024

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HUI ZHOU CHINION SPORTS TECHNOLOGY CO., LTD  
125 FUXING AVENUE, FUXING INDUSTRIAL ZONE, FUTIAN TOWN, BOLUO COUNTY, HUIZHOU CITY,  
GUANGDONG PROVINCE

Sample Description : BICYCLE HELMET  
Item No. : ZL-B068  
Style No. : XS(48-50cm),S (51-54cm) ,M(55-58cm), L(59-61cm).  
Country of Origin : CHINA  
Country of Destination : EUROPE  
Size : XS 48cm-50cm, S 51cm-54cm, M 55cm-58cm, L 59cm-61cm

As above test item and its relevant information regarding to the submission are provided and confirmed by the applicant. SGS is not liable to either the test item or its relevant information, in terms of the accuracy, suitability, reliability or/and integrity accordingly.

\*\*\*\*\*

HPI (from basic plane) : 48cm-50cm: 42mm For EN960 495  
51cm-54cm: 45mm For EN960 535  
55cm-58cm: 48mm For EN960 575  
59cm-61cm: 50mm For EN960 605

Sample Receiving Date : Oct 21, 2024

Test Performing Date : Oct 21, 2024 to Nov 05, 2024

Test Performed : EN 1078:2012+A1:2012

Entry 43 of Regulation (EU) 2020/2096 amending Annex XVII of REACH  
Regulation (EC) No 1907/2006- AZO Dyes  
pH Value  
Colour Fastness to Perspiration

Test Result(s) : For further details, please refer to the following page(s)



SGS-CSTC Standards Technical Services Co., Ltd.  
Guangzhou Branch

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Signed for and on behalf of  
SGS-CSTC Standards Technical Services Co., Ltd. Guangzhou Branch

Joe Chow  
Authorized Signatory

Muxiu Li  
Authorized Signatory



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### Part I

**Test Conducted:** Based on **EN 1078:2012+A1:2012**

Helmets for pedal cyclists and for users of skateboards and roller skates

**Number of Tested Sample:** 16 piece(s)

**Test Results:** Details shown as following table

| Clause | Test Method/Requirement                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Result                           |
|--------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|
| 4.1    | <b>Materials</b><br>For those parts of the helmet coming into contact with the skin, the material used should be known not to undergo appreciable alteration from contact with sweat or with substances likely to be found in toiletries.<br>Materials shall not be used which are known to cause skin disorders.                                                                                                                                                                                                                                                                                                                  | Pass<br>See part II and part III |
| 4.2    | <b>Construction</b><br>The helmet normally consists of a means of absorbing impact energy and means of retaining the helmet on the head in an accident.<br><br>The helmet should be durable and withstand handling. The helmet shall be so designed and shaped that parts of it (visor, rivets, ventilators, edges, fastening device and the like) are not likely to injure the user in normal use.<br><br><i>NOTE: Helmets should:</i><br>have low weight;<br>be ventilating;<br>be easy to put on and take off;<br>be usable with spectacles;<br>not significantly interfere with the ability of the user to hear traffic noise. | Pass<br>See annex 1              |
| 4.3    | <b>Field of vision</b><br>When tested in accordance with 5.7 there shall be no occultation in the field of vision bounded by angles as follows (see Figure 1):<br>- horizontally: min. 105° from the longitudinal vertical median plane to the left and right hand sides;<br>- upwards: min. 25° from the reference plane;<br>- downwards: min. 45° from the basic plane.                                                                                                                                                                                                                                                          | Pass<br>See annex 4              |
| 4.4    | <b>Shock absorbing capacity</b><br>The helmet shall give protection to the forehead, rear, sides, temples and crown of the head.<br>When tested in accordance with 5.3 and 5.4 the peak acceleration shall not, for each impact, exceed 250 g for the velocity of 5,42 +0.1,-0 m/s on the flat anvil, and 4,57+0.1,-0 m/s on the kerbstone anvil.<br><br><i>NOTE: These are theoretically equivalent to 1 497 mm and 1 064 mm drop heights respectively.</i>                                                                                                                                                                       | Pass<br>See annex 2              |
| 4.5    | <b>Durability</b><br>After being tested the helmet shall not exhibit damage that could cause significant injury to the wearer (sharp edges, points).                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Pass                             |
| 4.6    | <b>Retention system</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                  |



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| Clause       | Test Method/Requirement                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Result              |
|--------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|
| <b>4.6.1</b> | <b>General</b><br>Means shall be provided for retaining the helmet on the wearer's head. All parts of the retention system shall be securely attached to the helmet.                                                                                                                                                                                                                                                                                                                                                                                                                        | Pass                |
| <b>4.6.2</b> | <b>Chin strap</b><br>The chin strap shall not include a chin cup. Any chin strap shall be no less than 15 mm wide. Chin straps may be fitted with means of enhancing comfort for the wearer.                                                                                                                                                                                                                                                                                                                                                                                                | Pass                |
| <b>4.6.3</b> | <b>Fastening device</b><br>Any retention system shall be fitted with a device to adjust and maintain tension in the system. The device shall be capable of adjustment so that the buckle does not sit on the jaw bone.                                                                                                                                                                                                                                                                                                                                                                      | Pass                |
| <b>4.6.4</b> | <b>Color</b><br>No part of the retention system shall be colored green.<br><br><i>NOTE: It is recommended that the opening mechanism be marked with red or orange color.</i>                                                                                                                                                                                                                                                                                                                                                                                                                | Pass                |
| <b>4.6.5</b> | <b>Strength</b><br>When tested in accordance with 5.5, the dynamic extension of the retention system shall not exceed 35 mm and the residual extension shall not exceed 25 mm. For this purpose, extension includes slippage of the fastening device.<br>Damage to the retention system shall be accepted provided that the above requirements are met.<br><br><i>NOTE: In this test, slippage of the fastening device can be measured and recorded separately from other contributions to the extension but this is for information only and is not subject to a separate requirement.</i> | Pass<br>See annex 3 |
| <b>4.6.6</b> | <b>Effectiveness</b><br>When tested in accordance with 5.6 the helmet shall not come off the headform.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Pass                |
| <b>4.6.7</b> | <b>Ease of release</b><br>Following the strength test in accordance with 5.5 and with the load still applied, it shall be possible to open the release system with one hand.                                                                                                                                                                                                                                                                                                                                                                                                                | Pass                |
| <b>5.2</b>   | <b>Inspection and determination of mass</b><br>Inspect the helmet to ascertain whether it is suitable for its intended purpose and fulfils the general requirements in 4.2.<br>Determine the mass of the helmets of the same size submitted for testing. Calculate and record the mean value in g rounded off to the nearest 10 g, stating the size of the helmet.                                                                                                                                                                                                                          | Pass<br>See annex 1 |
| <b>6</b>     | <b>Marking</b><br>Each helmet shall be marked in such a way that the following information is easily legible by the user and is likely to remain legible throughout the life of the helmet:                                                                                                                                                                                                                                                                                                                                                                                                 | Pass                |
|              | a. the number of this European standard;                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Pass                |
|              | b. the name or trademark of the manufacturer;                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Pass                |



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| Clause | Test Method/Requirement                                                                                                                                                                                                                                                                          | Result |
|--------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|
|        | c. the designation of the model;                                                                                                                                                                                                                                                                 | Pass   |
|        | d. the designation, which shall be one or more of the following:-helmet for pedal cyclists, skateboarders or roller skaters;                                                                                                                                                                     | Pass   |
|        | e. the size or size range of the helmet, quoted as the circumference (in centimeters) of the head which the helmet is intended to fit;                                                                                                                                                           | Pass   |
|        | f. the weight of the helmet (the average mass in g determined according to EN 1078,5.2);                                                                                                                                                                                                         | Pass   |
|        | g. year and quarter of manufacture;                                                                                                                                                                                                                                                              | Pass   |
|        | h. a label carrying the instructions –“Warning! This helmet should not be used by children while climbing or doing other activities when there is a risk of strangulation/hanging if the child gets trapped with the helmet”                                                                     | Pass   |
|        | In addition, if the helmet has components made of material which are known to be adversely affected by contact with hydrocarbons, cleaning fluids, paints, transfers or other extraneous additions, the helmet shall carry an appropriate warning.                                               | Pass   |
|        | If there is a consumer sales packaging, the information specified in a), b), d), and h) shall also be given on that package. The text shall be of minimum font size 12.                                                                                                                          | NT     |
| 7      | <b>Information supplied by the manufacture</b>                                                                                                                                                                                                                                                   |        |
|        | With every helmet clear information in the language of the country of sale shall be given as follows:                                                                                                                                                                                            | Pass   |
|        | a. that the helmet can only protect if it fits well and that the buyer should try different sizes and choose the size which feels secure and comfortable on the head;                                                                                                                            | Pass   |
|        | b. that the helmet should be adjusted to fit the user, e.g. the straps positioned so that they do not cover the ears, the buckle positioned away from the jawbone and the straps and buckle adjusted to be both comfortable and firm;                                                            | Pass   |
|        | c. how the helmet should be positioned on the head to ensure the intended protection is provide (e.g. that it should be placed so as to protect the forehead and not be pushed too far over the back of the head); to protect the forehead and not be pushed too far over the back of the head); | Pass   |
|        | d. that a helmet cannot always protect against injury;                                                                                                                                                                                                                                           | Pass   |
|        | e. that a helmet subjected to a severe impact should be discarded and destroyed;                                                                                                                                                                                                                 | Pass   |
|        | f. a statement of the danger of modifying or removing any of the original component parts of the helmet other than as recommended by the manufacturer, and that helmets should not be adapted for the purpose of fitting accessories in a way not recommended by the manufacturer.               | Pass   |

### Remark:

1. NA = Not applicable.
2. NT = Not tested as per client's request.



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Item No: ZL-B068

Size: 48-50 cm

Test headform: 495 (EN 960:2006)

### Annex-1: Mass

Mass of the samples:

| Sample No. | Mass (g) |
|------------|----------|
| 1          | 651      |
| 2          | 649      |
| 3          | 649      |
| 4          | 650      |
| Average    | 650      |

### Annex-2: Impact energy attenuation test

Test Specification: EN 1078:2012+A1:2012-5.4

Ambient temperature at time of test: 22.0 °C

| Sample No. | Condition                                            | Test Anvil | Test site  | Velocity (m/s) | Peak'G | Result |
|------------|------------------------------------------------------|------------|------------|----------------|--------|--------|
| 1          | High temperature<br>No recondition (Clause 5.4.2.1)  | Kerbstone  | Front      | 4.62           | 101.1  | Pass   |
|            |                                                      | Flat       | Left       | 5.46           | 117.3  | Pass   |
| 2          | Low temperature<br>No recondition (Clause 5.4.2.2)   | Flat       | Crown      | 5.46           | 169.7  | Pass   |
|            |                                                      | Kerbstone  | Rear       | 4.67           | 90.2   | Pass   |
| 3          | Artificial Ageing<br>No recondition (Clause 5.4.2.3) | Kerbstone  | Left Front | 4.57           | 106.4  | Pass   |
|            |                                                      | Flat       | Rear       | 5.47           | 131.4  | Pass   |

### Annex-3: Retention system strength

Test Specification: EN 1078:2012+A1:2012-5.5

Ambient temperature at time of test: 22.0 °C

| Sample No. | Condition                                            | Dynamic extension (mm) | Residual extension (mm) | Result |
|------------|------------------------------------------------------|------------------------|-------------------------|--------|
| 2          | Low temperature<br>No recondition (Clause 5.4.2.2)   | 23.7                   | 9.2                     | Pass   |
| 3          | Artificial Ageing<br>No recondition (Clause 5.4.2.3) | 23.8                   | 8.6                     | Pass   |

### Annex-4: Field of vision

Test Specification: EN 1078:2012+A1:2012-5.7

Horizontal: >105°

Upward: >25°

Downward: >45°



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Item No: ZL-B068

Size: 51-54 cm

Test headform: 535 (EN 960:2006)

### Annex-1: Mass

Mass of the samples:

| Sample No. | Mass (g) |
|------------|----------|
| 1          | 646      |
| 2          | 652      |
| 3          | 643      |
| 4          | 639      |
| Average    | 640      |

### Annex-2: Impact energy attenuation test

Test Specification: EN 1078:2012+A1:2012-5.4

Ambient temperature at time of test: 22.0 °C

| Sample No. | Condition                                            | Test Anvil | Test site  | Velocity (m/s) | Peak'G | Result |
|------------|------------------------------------------------------|------------|------------|----------------|--------|--------|
| 1          | High temperature<br>No recondition (Clause 5.4.2.1)  | Kerbstone  | Front      | 4.62           | 95.4   | Pass   |
|            |                                                      | Flat       | Left       | 5.46           | 135.5  | Pass   |
| 2          | Low temperature<br>No recondition (Clause 5.4.2.2)   | Flat       | Crown      | 5.50           | 151.2  | Pass   |
|            |                                                      | Kerbstone  | Rear       | 4.67           | 97.2   | Pass   |
| 3          | Artificial Ageing<br>No recondition (Clause 5.4.2.3) | Kerbstone  | Left Front | 4.66           | 96.3   | Pass   |
|            |                                                      | Flat       | Rear       | 5.47           | 125.4  | Pass   |

### Annex-3: Retention system strength

Test Specification: EN 1078:2012+A1:2012-5.5

Ambient temperature at time of test: 22.0 °C

| Sample No. | Condition                                            | Dynamic extension (mm) | Residual extension (mm) | Result |
|------------|------------------------------------------------------|------------------------|-------------------------|--------|
| 2          | Low temperature<br>No recondition (Clause 5.4.2.2)   | 26.4                   | 11.9                    | Pass   |
| 3          | Artificial Ageing<br>No recondition (Clause 5.4.2.3) | 25.5                   | 10.5                    | Pass   |

### Annex-4: Field of vision

Test Specification: EN 1078:2012+A1:2012-5.7

Horizontal: >105°

Upward: >25°

Downward: >45°



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Item No: ZL-B068

Size: 55-58 cm

Test headform: 575 (EN 960:2006)

### Annex-1: Mass

Mass of the samples:

| Sample No. | Mass (g) |
|------------|----------|
| 1          | 678      |
| 2          | 679      |
| 3          | 681      |
| 4          | 684      |
| Average    | 680      |

### Annex-2: Impact energy attenuation test

Test Specification: EN 1078:2012+A1:2012-5.4

Ambient temperature at time of test: 22.0 °C

| Sample No. | Condition                                            | Test Anvil | Test site  | Velocity (m/s) | Peak'G | Result |
|------------|------------------------------------------------------|------------|------------|----------------|--------|--------|
| 1          | High temperature<br>No recondition (Clause 5.4.2.1)  | Kerbstone  | Front      | 4.60           | 115.4  | Pass   |
|            |                                                      | Flat       | Left       | 5.45           | 204.9  | Pass   |
| 2          | Low temperature<br>No recondition (Clause 5.4.2.2)   | Flat       | Crown      | 5.47           | 196.8  | Pass   |
|            |                                                      | Kerbstone  | Rear       | 4.60           | 104.7  | Pass   |
| 3          | Artificial Ageing<br>No recondition (Clause 5.4.2.3) | Kerbstone  | Left Front | 4.62           | 136.2  | Pass   |
|            |                                                      | Flat       | Rear       | 5.45           | 144.4  | Pass   |

### Annex-3: Retention system strength

Test Specification: EN 1078:2012+A1:2012-5.5

Ambient temperature at time of test: 22.0 °C

| Sample No. | Condition                                            | Dynamic extension (mm) | Residual extension (mm) | Result |
|------------|------------------------------------------------------|------------------------|-------------------------|--------|
| 2          | Low temperature<br>No recondition (Clause 5.4.2.2)   | 23.1                   | 9.3                     | Pass   |
| 3          | Artificial Ageing<br>No recondition (Clause 5.4.2.3) | 24.1                   | 9.9                     | Pass   |

### Annex-4: Field of vision

Test Specification: EN 1078:2012+A1:2012-5.7

Horizontal: >105°

Upward: >25°

Downward: >45°



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## Test Report

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Item No: ZL-B068

Size: 59-61 cm

Test headform: 605 (EN 960:2006)

### Annex-1: Mass

Mass of the samples:

| Sample No. | Mass (g) |
|------------|----------|
| 1          | 700      |
| 2          | 697      |
| 3          | 700      |
| 4          | 700      |
| Average    | 700      |

### Annex-2: Impact energy attenuation test

Test Specification: EN 1078:2012+A1:2012-5.4

Ambient temperature at time of test: 22.0 °C

| Sample No. | Condition                                            | Test Anvil | Test site  | Velocity (m/s) | Peak'G | Result |
|------------|------------------------------------------------------|------------|------------|----------------|--------|--------|
| 1          | High temperature<br>No recondition (Clause 5.4.2.1)  | Kerbstone  | Front      | 4.60           | 112.7  | Pass   |
|            |                                                      | Flat       | Left       | 5.52           | 209.1  | Pass   |
| 2          | Low temperature<br>No recondition (Clause 5.4.2.2)   | Flat       | Crown      | 5.48           | 199.0  | Pass   |
|            |                                                      | Kerbstone  | Rear       | 4.62           | 119.0  | Pass   |
| 3          | Artificial Ageing<br>No recondition (Clause 5.4.2.3) | Kerbstone  | Left Front | 4.64           | 128.6  | Pass   |
|            |                                                      | Flat       | Rear       | 5.45           | 157.1  | Pass   |

### Annex-3: Retention system strength

Test Specification: EN 1078:2012+A1:2012-5.5

Ambient temperature at time of test: 22.0 °C

| Sample No. | Condition                                            | Dynamic extension (mm) | Residual extension (mm) | Result |
|------------|------------------------------------------------------|------------------------|-------------------------|--------|
| 2          | Low temperature<br>No recondition (Clause 5.4.2.2)   | 23.9                   | 11.6                    | Pass   |
| 3          | Artificial Ageing<br>No recondition (Clause 5.4.2.3) | 24.9                   | 11.3                    | Pass   |

### Annex-4: Field of vision

Test Specification: EN 1078:2012+A1:2012-5.7

Horizontal: >105°

Upward: >25°

Downward: >45°



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### Part II:

SGS Ref No.: CAN24-0232531

|   | Test Requirement                                                                                          | Conclusion  |
|---|-----------------------------------------------------------------------------------------------------------|-------------|
| 1 | Entry 43 of Regulation (EU) 2020/2096 amending Annex XVII of REACH Regulation (EC) No 1907/2006- AZO Dyes | Pass        |
| 2 | pH Value                                                                                                  | See Results |

### Test Result(s):

#### Test Part Description:

| SN ID | Sample No. | SGS Sample ID           | Description         |
|-------|------------|-------------------------|---------------------|
| SN1   | A1         | CAN24-0232531-0001.C001 | Black fabric(strap) |
| SN2   | A2         | CAN24-0232531-0001.C002 | Black/golden fabric |

#### Remarks:

- (1) 1 mg/kg = 1 ppm = 0.0001%
- (2) MDL = Method Detection Limit
- (3) ND = Not Detected (< MDL)
- (4) "-" = Not Regulated

### Entry 43 of Regulation (EU) 2020/2096 amending Annex XVII of REACH Regulation (EC) No 1907/2006- AZO Dyes

**Test Method:** With reference to EN ISO 14362-1:2017, analysis was performed by GC-MS/HPLC-DAD.

| Test Item(s)                                    | CAS No.  | Limit | Unit(s) | MDL | A1                    |                          |
|-------------------------------------------------|----------|-------|---------|-----|-----------------------|--------------------------|
|                                                 |          |       |         |     | Direct Reduction<br>* | Colorant Extraction<br>* |
| 4-Aminobiphenyl                                 | 92-67-1  | 30    | mg/kg   | 5   | ND                    | ND                       |
| Benzidine                                       | 92-87-5  | 30    | mg/kg   | 5   | ND                    | ND                       |
| 4-Chlor-o-toluidine                             | 95-69-2  | 30    | mg/kg   | 5   | ND                    | ND                       |
| 2-Naphthylamine                                 | 91-59-8  | 30    | mg/kg   | 5   | ND                    | ND                       |
| o-Aminoazotoluene                               | 97-56-3  | 30    | mg/kg   | 5   | ND                    | ND                       |
| 5-Nitro-o-Toluidine/2-Amino-4-Nitrotoluene      | 99-55-8  | 30    | mg/kg   | 5   | ND                    | ND                       |
| 4-Chloroaniline                                 | 106-47-8 | 30    | mg/kg   | 5   | ND                    | ND                       |
| 4-Methoxy-m-Phenylenediamine/2,4-Diaminoanisole | 615-05-4 | 30    | mg/kg   | 5   | ND                    | ND                       |
| 4,4'-Diaminodiphenylmethane, MDA                | 101-77-9 | 30    | mg/kg   | 5   | ND                    | ND                       |
| 3,3'-Dichlorobenzidine                          | 91-94-1  | 30    | mg/kg   | 5   | ND                    | ND                       |
| 3,3'-Dimethoxybenzidine                         | 119-90-4 | 30    | mg/kg   | 5   | ND                    | ND                       |
| 3,3'-Dimethybenzidine                           | 119-93-7 | 30    | mg/kg   | 5   | ND                    | ND                       |



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| Test Item(s)                                                           | CAS No.  | Limit | Unit(s) | MDL | A1          |             |
|------------------------------------------------------------------------|----------|-------|---------|-----|-------------|-------------|
| 4,4'-methylenedi-o-Toluidine/3,3'-Dimethyl-4,4'-Diaminodiphenylmethane | 838-88-0 | 30    | mg/kg   | 5   | ND          | ND          |
| p-Cresidine                                                            | 120-71-8 | 30    | mg/kg   | 5   | ND          | ND          |
| 4,4'-Methylene-bis-(2-chloroaniline)                                   | 101-14-4 | 30    | mg/kg   | 5   | ND          | ND          |
| 4,4'-Oxydianiline                                                      | 101-80-4 | 30    | mg/kg   | 5   | ND          | ND          |
| 4,4'-Thiodianiline                                                     | 139-65-1 | 30    | mg/kg   | 5   | ND          | ND          |
| o-Toluidine                                                            | 95-53-4  | 30    | mg/kg   | 5   | ND          | ND          |
| 4-Methyl-m-Phenylenediamine/2,4-Toluyldiamine, TDA                     | 95-80-7  | 30    | mg/kg   | 5   | ND          | ND          |
| 2,4,5-Trimethylaniline                                                 | 137-17-7 | 30    | mg/kg   | 5   | ND          | ND          |
| 4-Aminoazobenzene                                                      | 60-09-3  | 30    | mg/kg   | 5   | ND          | ND          |
| O-Anisidine                                                            | 90-04-0  | 30    | mg/kg   | 5   | ND          | ND          |
| <b>Conclusion</b>                                                      |          |       |         |     | <b>Pass</b> | <b>Pass</b> |

| Test Item(s)                                                           | CAS No.  | Limit | Unit(s) | MDL | A2                 |                       |
|------------------------------------------------------------------------|----------|-------|---------|-----|--------------------|-----------------------|
|                                                                        |          |       |         |     | Direct Reduction * | Colorant Extraction * |
| 4-Aminobiphenyl                                                        | 92-67-1  | 30    | mg/kg   | 5   | ND                 | ND                    |
| Benzidine                                                              | 92-87-5  | 30    | mg/kg   | 5   | ND                 | ND                    |
| 4-Chlor-o-toluidine                                                    | 95-69-2  | 30    | mg/kg   | 5   | ND                 | ND                    |
| 2-Naphthylamine                                                        | 91-59-8  | 30    | mg/kg   | 5   | ND                 | ND                    |
| o-Aminoazotoluene                                                      | 97-56-3  | 30    | mg/kg   | 5   | ND                 | ND                    |
| 5-Nitro-o-Toluidine/2-Amino-4-Nitrotoluene                             | 99-55-8  | 30    | mg/kg   | 5   | ND                 | ND                    |
| 4-Chloroaniline                                                        | 106-47-8 | 30    | mg/kg   | 5   | ND                 | ND                    |
| 4-Methoxy-m-Phenylenediamine/2,4-Diaminoanisole                        | 615-05-4 | 30    | mg/kg   | 5   | ND                 | ND                    |
| 4,4'-Diaminodiphenylmethane, MDA                                       | 101-77-9 | 30    | mg/kg   | 5   | ND                 | ND                    |
| 3,3'-Dichlorobenzidine                                                 | 91-94-1  | 30    | mg/kg   | 5   | ND                 | ND                    |
| 3,3'-Dimethoxybenzidine                                                | 119-90-4 | 30    | mg/kg   | 5   | ND                 | ND                    |
| 3,3'-Dimethybenzidine                                                  | 119-93-7 | 30    | mg/kg   | 5   | ND                 | ND                    |
| 4,4'-methylenedi-o-Toluidine/3,3'-Dimethyl-4,4'-Diaminodiphenylmethane | 838-88-0 | 30    | mg/kg   | 5   | ND                 | ND                    |
| p-Cresidine                                                            | 120-71-8 | 30    | mg/kg   | 5   | ND                 | ND                    |
| 4,4'-Methylene-bis-(2-chloroaniline)                                   | 101-14-4 | 30    | mg/kg   | 5   | ND                 | ND                    |
| 4,4'-Oxydianiline                                                      | 101-80-4 | 30    | mg/kg   | 5   | ND                 | ND                    |
| 4,4'-Thiodianiline                                                     | 139-65-1 | 30    | mg/kg   | 5   | ND                 | ND                    |
| o-Toluidine                                                            | 95-53-4  | 30    | mg/kg   | 5   | ND                 | ND                    |



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| Test Item(s)                                          | CAS No.  | Limit | Unit(s) | MDL | A2          |             |
|-------------------------------------------------------|----------|-------|---------|-----|-------------|-------------|
| 4-Methyl-m-Phenylenediamine/2,4-Toluylenediamine, TDA | 95-80-7  | 30    | mg/kg   | 5   | ND          | ND          |
| 2,4,5-Trimethylaniline                                | 137-17-7 | 30    | mg/kg   | 5   | ND          | ND          |
| 4-Aminoazobenzene                                     | 60-09-3  | 30    | mg/kg   | 5   | ND          | ND          |
| O-Anisidine                                           | 90-04-0  | 30    | mg/kg   | 5   | ND          | ND          |
| <b>Conclusion</b>                                     |          |       |         |     | <b>Pass</b> | <b>Pass</b> |

## Notes:

(1) \*Direct reduction refers to the extraction and reduction according to EN ISO 14362-1:2017 clause 10.2 and relevant clauses.

\*Colorant extraction refers to the colourant extraction and subsequent reduction according to EN ISO 14362-1:2017 Clause 10.1 and relevant clauses.

(2) EN ISO 14362-1:2017 will enable further cleavage of 4-AAB (CAS No. 60-09-3) to non-forbidden amines: aniline and p-phenylenediamine. If aniline and/or p-phenylenediamine is not found, 4-AAB is considered as "ND" (i.e. <5.0 mg/kg). Otherwise, EN ISO 14362-3:2017 will be employed to verify the presence of 4-AAB.

(3) The result interpretation and assessment guide according to Annex C of EN ISO 14362-1:2017 should be taken into account when assessing the source of amine.

## pH Value

**Test Method:** With reference to ISO 3071:2020, analysis was performed by pH meter.

| Test Item(s) | A1  | A2  |
|--------------|-----|-----|
| pH Value     | 6.1 | 6.7 |

## Notes:

1. Extraction medium: KCl solution
2. pH value of extraction medium: 5.0 – 7.5
3. Temperature of the extraction solution: 22±2°C

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.



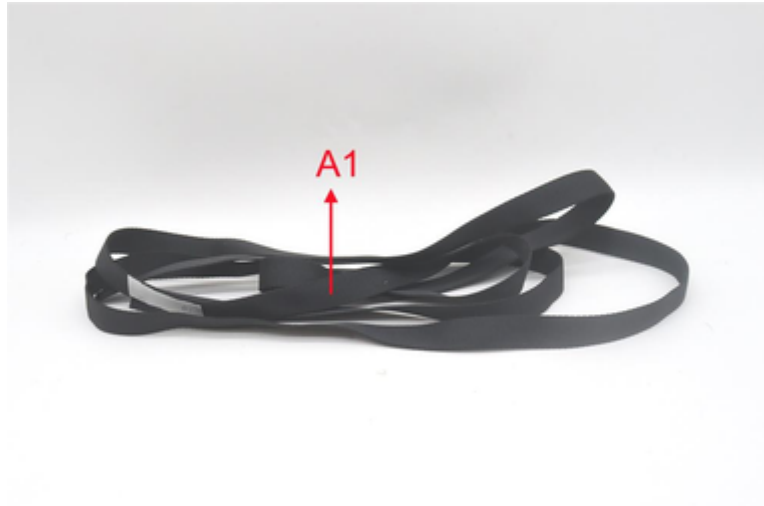
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## Test Report

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### Part III:

SGS Ref No.: T52410340545SN

This test was subcontracted to SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch.

| Test Requested |                                                                           | Conclusion |
|----------------|---------------------------------------------------------------------------|------------|
| 1.             | Client's requirement - Colour Fastness to Perspiration (ISO 105-E04:2013) | PASS       |

### Results:

#### Colour Fastness to Perspiration

(ISO 105-E04:2013, test specimen in vertical position)

|                                | 1   | 2   | Client's Requirement |
|--------------------------------|-----|-----|----------------------|
| <u>Acidic</u>                  |     |     |                      |
| Change in shade                | 4-5 | 4-5 | Min. 4               |
| Staining on multi-fiber stripe |     |     |                      |
| Acetate                        | 4-5 | 4-5 | /                    |
| Cotton                         | 4-5 | 4-5 | /                    |
| Nylon                          | 4-5 | 4-5 | /                    |
| Polyester                      | 4-5 | 4-5 | /                    |
| Acrylic                        | 4-5 | 4-5 | /                    |
| Wool                           | 4-5 | 4-5 | /                    |
| <u>Alkaline</u>                |     |     |                      |
| Change in shade                | 4-5 | 4-5 | Min. 4               |
| Staining on multi-fiber stripe |     |     |                      |
| Acetate                        | 4-5 | 4-5 | /                    |
| Cotton                         | 4-5 | 4-5 | /                    |
| Nylon                          | 4-5 | 4-5 | /                    |
| Polyester                      | 4-5 | 4-5 | /                    |
| Acrylic                        | 4-5 | 4-5 | /                    |
| Wool                           | 4-5 | 4-5 | /                    |

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

#### Specimen Description:

1. A-Knitting
2. B



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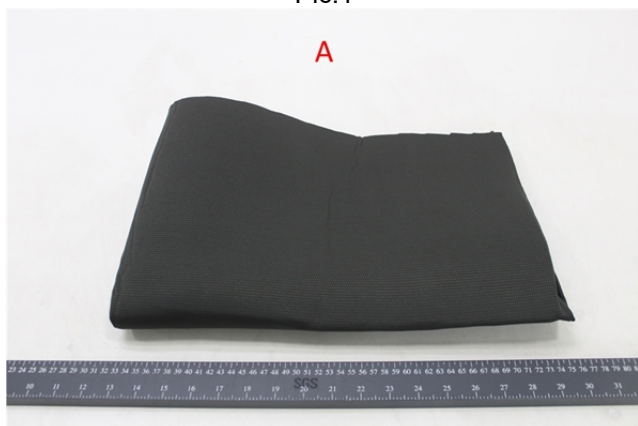
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### Sample Picture (As received)

Pic.1



Pic.2



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### Sample Photo(s):



|            |                                                                                      |
|------------|--------------------------------------------------------------------------------------|
| Sample     |   |
| Front view |  |



|           |                                                                                      |
|-----------|--------------------------------------------------------------------------------------|
| Side view |   |
| Back view |  |



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|             |                                                                                      |
|-------------|--------------------------------------------------------------------------------------|
| Top view    |   |
| Bottom view |  |



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|-------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Label | <div> <p>Helmets for pedal cyclists and for users of skateboards and roller skates.<br/>Warning! This helmet should not be used by children while climbing or doing other activities when there is a risk of strangulation/hanging if the child gets trapped with the helmet.<br/>Model: ZL-B068 Weight: 650g<br/>Size: XS(48-50CM)<br/>Manufactured by: Hui Zhou Chionin Sports Technology Co., LTD<br/>125 Faxing Avenue, Faxing Industrial Zone, Futian Town, Boluo County, Huizhou City, Guangdong Province<br/>Production date: Oct. 2024 Made in China EN 1078:2012 + A1:2012</p> <p>Helmets for pedal cyclists and for users of skateboards and roller skates.<br/>Warning! This helmet should not be used by children while climbing or doing other activities when there is a risk of strangulation/hanging if the child gets trapped with the helmet.<br/>Model: ZL-B068 Weight: 640g<br/>Size: S(51-54CM)<br/>Manufactured by: Hui Zhou Chionin Sports Technology Co., LTD<br/>125 Faxing Avenue, Faxing Industrial Zone, Futian Town, Boluo County, Huizhou City, Guangdong Province<br/>Production date: Oct. 2024 Made in China EN 1078:2012 + A1:2012</p> <p>Helmets for pedal cyclists and for users of skateboards and roller skates.<br/>Warning! This helmet should not be used by children while climbing or doing other activities when there is a risk of strangulation/hanging if the child gets trapped with the helmet.<br/>Model: ZL-B068 Weight: 680g<br/>Size: M(55-58CM)<br/>Manufactured by: Hui Zhou Chionin Sports Technology Co., LTD<br/>125 Faxing Avenue, Faxing Industrial Zone, Futian Town, Boluo County, Huizhou City, Guangdong Province<br/>Production date: Oct. 2024 Made in China EN 1078:2012 + A1:2012</p> <p>Helmets for pedal cyclists and for users of skateboards and roller skates.<br/>Warning! This helmet should not be used by children while climbing or doing other activities when there is a risk of strangulation/hanging if the child gets trapped with the helmet.<br/>Model: ZL-B068 Weight: 700g<br/>Size: L(59-61CM)<br/>Manufactured by: Hui Zhou Chionin Sports Technology Co., LTD<br/>125 Faxing Avenue, Faxing Industrial Zone, Futian Town, Boluo County, Huizhou City, Guangdong Province<br/>Production date: Oct. 2024 Made in China EN 1078:2012 + A1:2012</p> </div> |
| Label | <div>   </div>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Label | <div> <p><b>WARNING</b></p> <p>Helmet meets EN 1078:2012 + A1:2012 standards<br/>Lightweight protective helmet designed for Pedal Cyclists, skateboarders or roller skaters use only.<br/>Constructed of expanded polystyrene. The helmet can be seriously damaged by substance such as solvents, paints, adhesives and cleaning solutions. Make no modifications. The helmet is made almost entirely of polystyrene and may be easily penetrated by sharp objects. No Protective headgear can protect the wearer against all unforeseeable impacts and this unit will not eliminate all possibility of injury even when worn properly. A helmet must be of good fit and fastened securely under the jaw.<br/>This helmet should not be used by children while climbing or doing other activities when there is a risk of strangulation/hanging if the child gets trapped with the helmet.<br/>Manufactured in China.</p> </div>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |



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|--------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>Instruction</p> | <div data-bbox="571 439 671 461">Final Check</div> <p>The important thing to remember is that the helmet fits snugly. If you can tilt it forward or backward, you need to tighten the strap adjustment.</p> <p>It is important for the helmet to fit snugly on your head and must be fastened to provide maximum protection.</p> <p>All adjustments should be checked each time the helmet is worn, making sure it fits snugly at all times.</p> <div data-bbox="529 651 716 676">Caring for Your Helmet</div> <p>Clean the headgear with mild soap and water only. The use of any solvents, paints or cleaning solutions can cause damage to the helmet and make it ineffective in the result of an accident.</p> <div data-bbox="486 761 761 786">Keep Helmet Out of Extreme Heat</div> <p>Helmets will be damaged if exposed to temperatures exceeding 45 °C. Dark vehicles and storage bags can exceed this on very hot days. Heat damaged helmets will have random disfigured areas where the texture appears bubbly and uneven. If damaged, helmets should be destroyed and replaced immediately.</p> <div data-bbox="533 918 713 940">Important Information</div> <p>This headgear is designed to absorb the energy of a blow by partial destruction or damage itself. Even though such damage may not be visible, the helmet should be destroyed or replaced, if it is involved in an injury-related fall.</p> <p>Unfortunately, some accidents result in head injury that cannot be prevented by ANY helmet. Depending on the type of impact, even very low speeds can result in a serious head injury or fatality. Always ride with extreme caution and be sure to read this manual thoroughly.</p> <p><b>SERVICE LIFE</b> The maximum lifespan of a helmet that has been used, transported and stored properly as described in these instructions, and has not been damaged, is five (5) years after the date of manufacture, which can be found on the sticker inside the helmet</p> <div data-bbox="821 712 1016 757">Bicycle - Sports Helmets<br/>Warning</div> <p>Helmet for pedal cyclists, skateboarders or roller skaters. Warning! This helmet should not be used by children while climbing or doing other activities when there is a risk of strangulation/hanging if the child gets trapped with the helmet.</p> <p><b>NOT FOR MOTOR USE.</b></p> <p>the helmet can only protect if it fits well and that the buyer should try different sizes and choose the size which feels secure and comfortable on the head:</p> <p>the helmet should be adjusted to fit the user, e.g. the straps positioned so that they do not cover the ears, the buckle positioned away from the jawbone and the straps and buckle adjusted to be both comfortable and firm:</p> <div data-bbox="1153 517 1276 604">CE</div> <div data-bbox="1120 633 1318 678">BICYCLE SAFETY<br/>HELMET</div> <div data-bbox="1117 703 1318 728">OWNERS MANUAL</div> <div data-bbox="1125 799 1310 902">THIS HELMET<br/>IS<br/>CE CERTIFIED<br/>Comply with normative<br/>EN1078:2012+A1:2012)</div> <div data-bbox="1144 938 1289 963">IMPORTANT!</div> <div data-bbox="1086 999 1347 1032">PLEASE READ CAREFULLY BEFORE USING<br/>YOUR NEW HELMET</div> |
| <p>Instruction</p> | <p>The Bicycle Safety Helmet you have just purchased provides protection, whether on or off the road. To insure proper use of this helmet, familiarize yourself with its features, fit and care by carefully reading through this manual before wear your new helmet.</p> <div data-bbox="510 1254 734 1276">Protection and Ventilation</div> <p>The outershell allows the helmet to be rated one of the lightest helmets while providing excellent durability and integrity. The multiple vents with inner air channels draw the air through the helmet and over the brow for maximum cooling.</p> <div data-bbox="574 1388 670 1411">Pad Fitting</div> <p>The helmet must fit properly to be effective. With a proper fit, the helmet will not move back and forth or side to side while fastened. If the helmet does not fit with installed pads, simply remove them and install a different size pad. To insure the proper fit, mix and match the pad thickness to best conform to your head shape.</p> <div data-bbox="542 1552 702 1574">Retention System</div> <p>This Bicycle Safety Helmet uses a quick-release buckle that is simple and can be buckled and unbuckled without changing the adjustment. The straps must be snugly and evenly tensioned. Place the helmet firmly on your head and fasten the buckle.</p> <p>Notice which strap is loose. Tighten the loose strap after removing the helmet.</p> <p>To tighten the chin strap, hold the buckle with one hand. Then pull the excess strap in through. (See Diagram A).</p> <div data-bbox="790 1220 877 1243">DIAGRAM A</div> <div data-bbox="861 1232 981 1355"></div> <p>To tighten the rear strap, pull excess from the rear of strap 2. Hold the helmet with one hand. With the other hand, hold the strap where they pass under your chin. Then pull from side to side to balance the length of all four straps. (See Diagram B)</p> <div data-bbox="790 1462 877 1485">DIAGRAM B</div> <div data-bbox="861 1478 981 1601"></div> <p>The helmet must sit firmly and level on your head. (See Diagram C) To lower the front of the helmet to cover your forehead, tighten the chin strap and loosen the rear strap. To raise the front, loosen the chin strap and tighten the rear strap.</p> <div data-bbox="1085 1137 1356 1176">NOTE: Please check adjustment every time this helmet is worn.</div> <div data-bbox="1085 1187 1181 1209">DIAGRAM C</div> <div data-bbox="1197 1187 1300 1310"></div> <p>a statement of the danger of modifying or removing any of the original component parts of the helmet other than as recommended by the manufacturer, and that helmets should not be adapted for the purpose of fitting accessories in a way not recommended by the manufacturer.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |

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|----------------------------------------------------------|--------------------------------------------------------------------------------------|
| <p>Test line for (495)<br/>EN 960:2006 head<br/>form</p> |   |
| <p>Test line for (535)<br/>EN 960:2006 head<br/>form</p> |  |



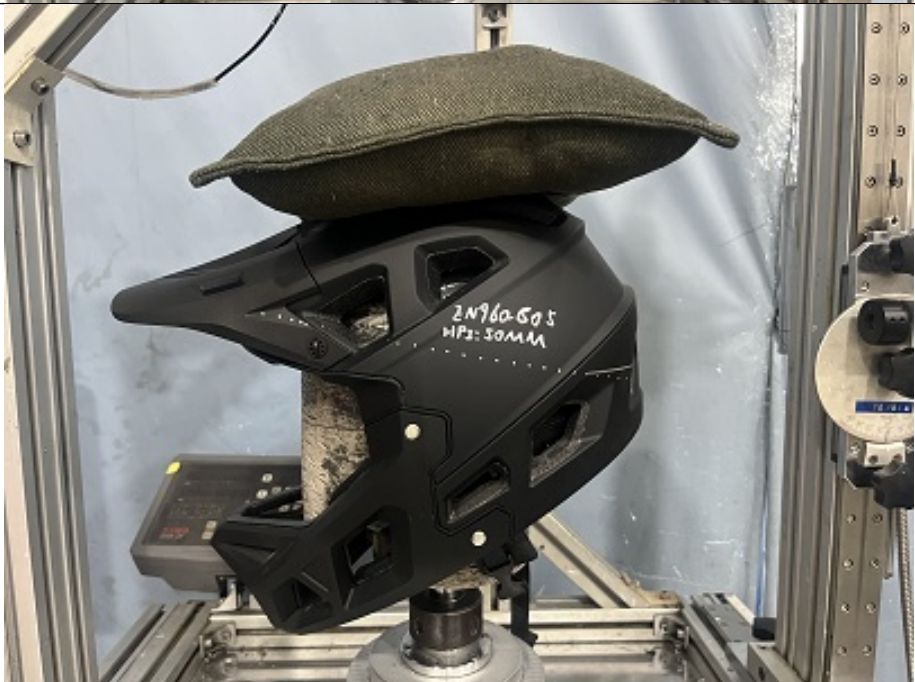
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| <p>Test line for (605)<br/>EN 960:2006 head<br/>form</p> |  |

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.

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



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