## **SAS VOLCOM**

## **Master Test Report Eyewear**

No. of Document: SV-200615-01

## Test report sunglasses acc. to ISO 12312-1:2013/A1:2015 and to ISO 12312-3:2022

Manufacturer: Zhangzhou TONY Optical CO., LTD. Model: BALONE

SAP number: VE00100301 Manufacturer's number: G3465 MPT0211 AS11 Lens material: PC Frame material: POLYAMIDE(PA) Lens colour: GRAY

| Item   | Requirement  | Relevant clause of ISO 12312-1:2013 | Result                              | Pass/Fail |
|--|--|-------------------------------------|-------------------------------------|-----------|
| Construction                                 | smooth material without sharp projections  | 4.1                                 | ОК                                  | Pass      |
| Filter material and surface quality          | no material or machinig defects  | 4.2                                 | ок                                  | Pass      |
| Physiological compatibility                  | nonhazardous materials   | 4.3                                 | ок                                  | Pass      |
| Luminous Transmittance /T <sub>vis</sub> [%] | according to claimed filter category   | 5.2, according to table             | T <sub>vis</sub> : L: 11.82% cat: 3 | Pass      |
| UV-absorption                                | according to claimed filter category   | 5.2, according to table             | 400                                 | Pass      |
| UV 400                                       | solar UV up to 400 nm below 0,5 %  | 5.3.5.2                             | 0.00%                               | Pass      |
| Homogenity T <sub>vis</sub>                  | < 15 % rel.  | 5.3.1                               | 1%                                  | Pass      |
| Homogenity Tvis within the lens              | Cat. 0.1.2.3 < 10 %<br>Cat. 4 < 20 %   | 5.3.1                               | L:5.0% R:5.8%                       | Pass      |
| Requirements for road use                    | T spectral detection of signal lights (Q values)   | 5.3.2.2<br>5.3.2.3                  | OK<br>R:1.12 Y:1.05 G:1.00 B:0.98   | Pass      |
| Driving in twilight or at night              | Tvis > 75 %  | 5.3.2.4                             | NOT SUITABLE                        |           |
| Wide angle scattering [%]                    | < 3 %  | 5.3.3                               | 0.39%                               | Pass      |
| Photochromic effect                          | T <sub>V0</sub> /T <sub>V1</sub> ≥ 1,25  | 5.3.4.1                             | NONE                                |           |
| Polarizing effect                            | Cat. 2,3,4 > 8:1<br>Cat. 1 > 4:1   | 5.3.4.2                             | NONE                                |           |
| Spherical power [dpt.]                       | sph ± 0,12   | L:0.01 R:0.04                       |                                     | Pere      |
| Astigmatic power [dpt.]                      | astigm. ≤ 0,12   | 6.1                                 | L:0.02 R:0.03                       | Pass      |
| Prism imbalance [cm/m]                       | horizontal base out ≤ 1,0 base in ≤ 0,25 vertical ≤ 0,25   | 6.3                                 | 0.11<br>NONE<br>0.00                | Pass      |
| Minimum robustness                           | no filter fracture or filter deformation   | 7.1                                 | ок                                  | Pass      |
| Frame deformation                            | no fracture or permanent deformation, filter not detached  | 7.2                                 | ок                                  | Pass      |
| Resistance to solar radiation                | change in luminous transmittance according to table 4 scattering < 3 % $T_{I/L}/T_{J/R} \ge 1.25$ all UV requirements still fullfilled | 8                                   | OK<br>OK<br>NONE<br>OK              | Pass      |
| Resistance to ignition                       | io ignition or glowing 9 OK  |                                     | ок                                  | Pass      |
| Protective requirements                      | two ellipses covered temporal protection for cat.4 glasses   | 11.1<br>11.2                        | OK<br>NONE                          | Pass      |
| Information and labelling                    | all required information added   | 12.1                                | OK                                  | Pass      |

|               | -<br>/              | AND TONY OPTICAL |           |            |           |
|---------------|---------------------|------------------|-----------|------------|-----------|
| Confirmation: | Manufacturer: Zhanç |                  |           | SAS VOLCOM |           |
|               | Date 2022-01-17     | 神技有限公司)          | Signature | Date       | Signature |