

LABORATORY TEST RESULTS

WOLVERINE CHINA LABORATORY

No.1, North Zhenxing
Road, Tanzhou Town,
Zhongshan City,
Guangdong Province,
China, Postal Zip code
528467.



RECORD COMPLETE

| Submission No. | Brand/Licensor | Development Team | Description |
|---|---|-------------------------------------|-----------------------------------|
| 9407 | Cat Footwear | CAT PD TEAM | RAPTOR WP |
| Test Category | Test Program | Test Specification | Test Package |
| 3.1 - Component | Performance Testing | January 2015 Performance Guidelines | U-01 Pigmented and coated leather |
| Factory | Material Supplier/Vendor | Other Material Supplier/Vendor | Status |
| ZHONG SHAN GLORY SHOES/STAR OCEAN (60001) | ASIATAN INTERNATIONAL LIMITED - HONG KONG () | | Complete |
| Library Material Color | Other Material Color | Library Material Name | Other Material Name |
| 2125 - BLACK | | | RAPTOR WP |
| Date created | Date Submitted | Size | Requested performance level |
| 12/08/2015 | 12/12/2015 | | 5 - High Performance |
| Received Date | Testing Complete Date | Complete Date | Hold Reason |
| 12/12/2015 | 12/18/2015 | 09/14/2019 | |
| Season | Outsole Code | Pattern Name | Critical Path Id |
| | -- | | |
| Tested by | Released by | Testing Lab | Lab contact info |
| Alice Liu | RenaeZhao | Wolverine Asia Lab | |
| PO Number | Investigation | Product Color | WW PD/QA Requestor |
| | No | | |
| RC1 | Comment | | |
| 100 Percent Wolverine Lab | Additional Color for: 9404 12/27/19 - Shirley Dai: Changed original submission Id to: 324084 | | |
| Testing Comments | | | Stock Number |
| | | | |
| Evaluation | Performance Level / Result | Result(L/M/H) | Requested By |
| Pass | 5 - High Performance | See Report | |
| Remarks | | | |

Results given in this report refer only to the samples submitted.

Test Items Summary:

| Test Item | Result | Risk Warning |
|--------------------------------|------------|--------------|
| XRF screening for Pb and Cd | Pass | |
| WTS160-1 Light fastness | Pass | |
| WTM167 Crockmeter rub fastness | Pass | |
| WTM185 Water spotting | Pass | |
| WTM34 Maeser water resistance | Pass - LMH | |
| WTM305 Wick test | Pass | |
| WTM335 Leather CF Grain side | Pass | |
| WTM335 Leather CF Flesh side | Pass | |

Test Result:

PLEASE NOTE: rows in italic have been imported from submission 324084

| Lab | METHOD | LIMIT GROUP | TEST PROPERTY | TEST REQUIREMENTS | EVAL | RESULT | COMMENT |
|-------|---------------|---|--|-----------------------------------|-----------|----------|---------|
| 60000 | XRF | XRF | Lead Result Lead ppm | NR 0 ppm | Info Only | ND | |
| 60000 | XRF | XRF | Lead Error Lead LOD | NR 0 ppm | Info Only | 14.00 | |
| 60000 | XRF | XRF | Sum of Lead values Lead Sum | < 100 ppm | Pass | 14.00 | |
| 60000 | XRF | XRF | Cadmium Result Cadmium ppm | NR 0 ppm | Info Only | ND | |
| 60000 | XRF | XRF | Cadmium Error Cadmium LOD | NR 0 ppm | Info Only | 21.00 | |
| 60000 | XRF | XRF | Sum of Cadmium values Cadmium Sum | < 100 ppm | Pass | 21.00 | |
| 60000 | WTS160-1:2016 | Light fastness - dyed surface l/r | Light fastness* | >= 3 BWS | Pass | 5.00 | |
| 60000 | WTM167:2018 | Crocking - Leather upper & rawhide lace | Dry (grain side)* Minimum 2.5 (CR2) | >= 2 GSR | Pass | 4.50 | |
| 60000 | WTM167:2018 | Crocking - Leather upper & rawhide lace | Wet (grain side)* Minimum 2.5 (CR2) | >= 2 GSR | Pass | 4.00 | |
| 60000 | WTM167:2018 | Crocking - Leather upper & rawhide lace | Dry (flesh side)* If unlined minimum 2.5 (CR2) | >= 2 GSR | Pass | 3.50 | |
| 60000 | WTM167:2018 | Crocking - Leather upper & rawhide lace | Wet (flesh side)* If unlined minimum 2.5 (CR2) | >= 2 GSR | Pass | 3.00 | |
| 60000 | WTM185:2022 | Water Spotting Test | Water spotting* After 24 Hours with Water (Rating for permanent staining) | >= 4 GSR | Pass | 5.00 | |
| 60000 | WTM34:2020 | Maeser Test on Cutting of Material | Along - water penetration* No. of flexes to penetration | FLMHB 10000, 15000, 25000 Flexes | Pass High | 25000.00 | |
| 60000 | WTM34:2020 | Maeser Test on Cutting of Material | Across - water penetration* No. of flexes to penetration | FLMHB 10000, 15000, 25000 Flexes | Pass High | 25000.00 | |
| 60000 | WTM34:2020 | Maeser Test on Cutting of Material | Along - water absorption* Absorption at first penetration | <= 20 % | Pass | 5.50 | |
| 60000 | WTM34:2020 | Maeser Test on Cutting of Material | Across - water absorption* Absorption at first penetration | <= 20 % | Pass | 7.40 | |
| 60000 | WTM305:2004 | Wicking Test | Non-wicking* Along; Maximum 10mm water rise | <= 10 mm Water Rise after 2 hours | Pass | 0.00 | |
| 60000 | WTM335:2019 | Upper Leather CF Grain side | Acetate (Water) Min 2.5 (CR2) | >= 2 GSR | Pass | 4.50 | |
| 60000 | WTM335:2019 | Upper Leather CF Grain side | Cotton (Water) Min 2.5 (CR2) | >= 2 GSR | Pass | 4.50 | |
| 60000 | WTM335:2019 | Upper Leather CF Grain side | Nylon (Water) Min 2.5 (CR2) | >= 2 GSR | Pass | 4.50 | |
| 60000 | WTM335:2019 | Upper Leather CF Grain side | Polyester (Water) Min 2.5 (CR2) | >= 2 GSR | Pass | 4.50 | |

| | | | | | | | |
|-------|-------------|--------------------------------|---|----------|------|------|--|
| 60000 | WTM335:2019 | Upper Leather CF Grain side | Acrylic (Water) Min 2.5 (CR2) | >= 2 GSR | Pass | 4.50 | |
| 60000 | WTM335:2019 | Upper Leather CF Grain side | Wool (Water) Min 2.5 (CR2) | >= 2 GSR | Pass | 4.50 | |
| 60000 | WTM335:2019 | Upper Leather CF Flesh side | Acetate (Water) Min 2.5 (CR2) | >= 2 GSR | Pass | 4.50 | |
| 60000 | WTM335:2019 | Upper Leather CF Flesh side | Cotton (Water) Min 2.5 (CR2) | >= 2 GSR | Pass | 4.50 | |
| 60000 | WTM335:2019 | Upper Leather CF Flesh side | Nylon (Water) Min 2.5 (CR2) | >= 2 GSR | Pass | 3.50 | |
| 60000 | WTM335:2019 | Upper Leather CF Flesh side | Polyester (Water) Min 2.5 (CR2) | >= 2 GSR | Pass | 4.50 | |
| 60000 | WTM335:2019 | Upper Leather CF Flesh side | Acrylic (Water) Min 2.5 (CR2) | >= 2 GSR | Pass | 4.50 | |
| 60000 | WTM335:2019 | Upper Leather CF Flesh side | Wool (Water) Min 2.5 (CR2) | >= 2 GSR | Pass | 4.50 | |
| 60000 | WTM335:2019 | Upper Leather CF Flesh side | Acetate (Perspiration) Min 2.5 (CR2) | >= 2 GSR | Pass | 4.50 | |
| 60000 | WTM335:2019 | Upper Leather CF Flesh side | Cotton (Perspiration) Min 2.5 (CR2) | >= 2 GSR | Pass | 2.00 | |
| 60000 | WTM335:2019 | Upper Leather CF Flesh side | Nylon (Perspiration) Min 2.5 (CR2) | >= 2 GSR | Pass | 3.00 | |
| 60000 | WTM335:2019 | Upper Leather CF Flesh side | Polyester (Perspiration) Min 2.5 (CR2) | >= 2 GSR | Pass | 3.50 | |
| 60000 | WTM335:2019 | Upper Leather CF Flesh side | Acrylic (Perspiration) Min 2.5 (CR2) | >= 2 GSR | Pass | 4.00 | |
| 60000 | WTM335:2019 | Upper Leather CF Flesh side | Wool (Perspiration) Min 2.5 (CR2) | >= 2 GSR | Pass | 4.50 | |

SATRA ACCREDITED : *

WWW ACCREDITED : **