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|---|---|---|--|---|
| Prüfbericht-Nr.: Test Report No.: | 15077722 001 | Auftrags-Nr.: Order No.: | 1200300486 | Seite 1 von 7 Page 1 of 7 |
| Kunden-Referenz-Nr.: Client Reference No.: | NIL | Auftragsdatum: Order date: | 04.01.2016 | |
| Auftraggeber: Client: | ROYALBABY CYCLE BEIJING CO.,LTD RM718, 8 SI JI QING RD., HAIDIAN DIST., BEIJING, CHINA | | | |
| Prüfgegenstand: Test item: | Bicycle | | | |
| Bezeichnung / Typ-Nr.: Identification / Type No.: | RB14G-1 | | | |
| Auftrags-Inhalt: Order content: | Test of selected parameters | | | |
| Prüfgrundlage: Test specification: | ISO 8098:2014 Cycles - Safety requirements for bicycles for young children | | | |
| Wareneingangsdatum: Date of receipt: | Mar.31,2015 |  | | |
| Prüfmuster-Nr.: Test sample No.: | 1200300314-1 1200300314-2 | | | |
| Prüfzeitraum: Testing period: | Mar.31,2015 – May.26,2015 | | | |
| Ort der Prüfung: Place of testing: | Bicycle lab | | | |
| Prüflaboratorium: Testing laboratory: | TÜV Rheinland Antaeen (Kunshan) Co.,Ltd. | | | |
| Prüfergebnis*: Test result*: | Pass | | | |
| geprüft von / tested by: | kontrolliert von / reviewed by: | | | |
| 05.01.2016 Datum Date | Nan Jiang / PE Name / Stellung Name / Position |  | 05.01.2016 Datum Date | Simon Huang/ Reviewer Name / Stellung Name / Position |
| | | Unterschrift Signature |  Unterschrift Signature | |
| Sonstiges / Other: | | | | |
| Remark | | | | |
| 1:The test report_15077722 001 was copied from the test report 15077433 001 dated on 26.05.2015. | | | | |
| 2:The test report holder and model name were changed, no further test was carried out. | | | | |
| Zustand des Prüfgegenstandes bei Anlieferung: Condition of the test item at delivery: | | Prüfmuster vollständig und unbeschädigt Test item complete and undamaged | | |
| * Legende: | 1 = sehr gut P(ass) = entspricht o.g. Prüfgrundlage(n) | 2 = gut F(ail) = entspricht nicht o.g. Prüfgrundlage(n) | 3 = befriedigend N/A = nicht anwendbar | 4 = ausreichend N/T = nicht getestet |
| Legend: | 1 = very good P(ass) = passed a.m. test specification(s) | 2 = good F(ail) = failed a.m. test specification(s) | 3 = satisfactory N/A = not applicable | 4 = sufficient N/T = not tested |
| <p>Dieser Prüfbericht bezieht sich nur auf das o.g. Prüfmuster und darf ohne Genehmigung der Prüfstelle nicht auszugsweise vervielfältigt werden. Dieser Bericht berechtigt nicht zur Verwendung eines Prüfzeichens.</p> <p><i>This test report only relates to the a. m. test sample. Without permission of the test center this test report is not permitted to be duplicated in extracts. This test report does not entitle to carry any test mark.</i></p> | | | | |

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Liste der verwendeten Prüfmittel
List of used test equipment

| Prüfmittel <i>Test equipment</i> | Prüfmittel-Nr. / ID-Nr. <i>Equipment No. / ID-No.</i> | Nächste Kalibrierung <i>Next calibration</i> |
|--|---|--|
| Push-Pull Scale | KS-P004 | Oct.09,2015 |
| Torque Wrench | KS-R001 | Oct.09,2015 |
| Digital Caliper | KS-L006 | Oct.09,2015 |
| Tape ruler | KS-L020 | Oct.09,2015 |
| Electronic balance | KS-L022 | Oct.09,2015 |
| Drive System Static Load Testing machine | KS-Z016 | Oct.09,2015 |
| Handlebar assembly/Seat assembly clamping performance tester | KS-Z001 | Oct.09,2015 |
| Steel ruler | KS-L001 | Oct.09,2015 |
| Magnet protractor | KS-L012 | Oct.09,2015 |
| Impact testing machine | KS-I003 | Oct.09,2015 |
| Pedal dynamic test machine | KS-Z034 | Oct.09,2015 |
| Crank assembly fatigue testing machine | KS-Z026 | Oct.09,2015 |
| Wheel retention testing machine | KS-Z003 | Oct.09,2015 |
| Grip dimension gauge | KS-L016 | Oct.09,2015 |
| Saddle & Seat pillar fatigue testing platform | KS-Z007 | Oct.09,2015 |
| Steel ruler | KS-L002 | Oct.09,2015 |
| Mini air compressor | KS-P003 | Oct.09,2015 |

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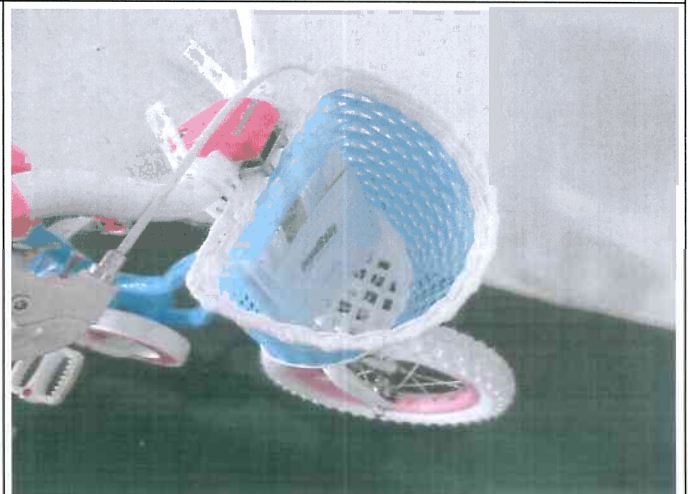
Produktbeschreibung
Product description

| | | |
|----------|--|--|
| 1 | Produktdetails <i>Product details</i> | For young children's bicycle |
| 2 | Maße / Gewicht <i>Dimensions / Weight</i> | Weight:9.05 kg. Max saddle height:571 mm. |
| 3 | Bedienelemente <i>Operating elements</i> | N/A |
| 4 | Ausstattung / Zubehör <i>Equipment / Accessories</i> | N/A |
| 5 | Verwendete Materialien <i>Used materials</i> | Iron. |
| 6 | Sonstiges <i>Other</i> | Wheel size:14x2.125 |

1



2



3



4



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| Absatz | ISO 8098:2014 | Messergebnisse - Bemerkungen | Bewertung |
|--------|--|------------------------------|------------|
| Clause | Anforderungen - Prüfungen / Requirements - Tests | Measuring results - Remarks | Evaluation |

| 1 | Scope | | | | | | | | | | |
|----------------------------|---|---|----------------------------|------------------|-----|-------|-----|-------|-----|-------|---|
| 2 | Normative references | | | | | | | | | | |
| 3 | Terms and definitions | | | | | | | | | | |
| 4 | Requirements and test methods | | | | | | | | | | |
| 4.1 | Brake tests and strength tests — Special requirements | | P | | | | | | | | |
| 4.2 | Toxicity | Reference test report NO: 0154092162a 001 | P | | | | | | | | |
| 4.3 | Sharp edges | | P | | | | | | | | |
| 4.4 | Security and strength of safety-related fasteners | | P | | | | | | | | |
| 4.4.1 | Security of screws | | P | | | | | | | | |
| 4.4.2 | Minimum failure torque | | P | | | | | | | | |
| 4.4.3 | Quick-release devices | No quick-release devices | P | | | | | | | | |
| 4.4.4 | Foot location devices | No foot location devices | P | | | | | | | | |
| 4.4.5 | Folding bicycle mechanism | | N/A | | | | | | | | |
| 4.5 | Crack detection methods | | P | | | | | | | | |
| 4.6 | Protrusions | | P | | | | | | | | |
| 4.7 | Brakes | | P | | | | | | | | |
| 4.7.1 | Braking-systems | Front :Side pull caliper brake Rear:Back-pedal braking system Asbestos content in brake- block is not determined. | P | | | | | | | | |
| 4.7.2 | Hand-operated brakes | | P | | | | | | | | |
| 4.7.2.1 | Brake-lever position | Right lever controls front brake | P | | | | | | | | |
| 4.7.2.2 | Brake-lever grip dimensions | | P | | | | | | | | |
| 4.7.2.3 | Brake-levers — Position of applied force | The position of applied force is 25mm from the lever end. | P | | | | | | | | |
| 4.7.3 | Attachment of brake assembly and cable requirements | Removal force:45 N | P | | | | | | | | |
| 4.7.4 | Brake-block and brake-pad assemblies — Security test | | P | | | | | | | | |
| 4.7.5 | Brake adjustment | | P | | | | | | | | |
| 4.7.6 | Back-pedal brake | | P | | | | | | | | |
| 4.7.7 | Braking-system — Strength tests | | P | | | | | | | | |
| 4.7.7.1 | Hand-operated brake — Requirement | | P | | | | | | | | |
| 4.7.7.3 | Back-pedal brake — Requirement | | P | | | | | | | | |
| 4.7.8 | Braking performance | | P | | | | | | | | |
| 4.7.8.1 | Hand-operated brake performance test — Requirement | <table border="1"> <thead> <tr> <th>Brake lever input force</th> <th>Braking force</th> </tr> </thead> <tbody> <tr> <td>40N</td> <td>46.7N</td> </tr> <tr> <td>60N</td> <td>63.3N</td> </tr> <tr> <td>80N</td> <td>99.3N</td> </tr> </tbody> </table> | Brake lever input force | Braking force | 40N | 46.7N | 60N | 63.3N | 80N | 99.3N | P |
| Brake lever input force | Braking force | | | | | | | | | | |
| 40N | 46.7N | | | | | | | | | | |
| 60N | 63.3N | | | | | | | | | | |
| 80N | 99.3N | | | | | | | | | | |

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| Absatz | ISO 8098:2014 | Messergebnisse - Bemerkungen | Bewertung | | | | | | | | | | | | |
|-------------|---|---|-------------|-------|-----|------|-----|------|-----|------|-----|------|------|------|---|
| Clause | Anforderungen - Prüfungen / Requirements - Tests | Measuring results - Remarks | Evaluation | | | | | | | | | | | | |
| 4.7.8.3 | Back-pedal brake performance test — Requirement | <table border="1"> <thead> <tr> <th>Pedal force</th> <th>Ratio</th> </tr> </thead> <tbody> <tr> <td>20N</td> <td>0.68</td> </tr> <tr> <td>40N</td> <td>0.80</td> </tr> <tr> <td>60N</td> <td>1.12</td> </tr> <tr> <td>80N</td> <td>1.09</td> </tr> <tr> <td>100N</td> <td>1.06</td> </tr> </tbody> </table> | Pedal force | Ratio | 20N | 0.68 | 40N | 0.80 | 60N | 1.12 | 80N | 1.09 | 100N | 1.06 | P |
| Pedal force | Ratio | | | | | | | | | | | | | | |
| 20N | 0.68 | | | | | | | | | | | | | | |
| 40N | 0.80 | | | | | | | | | | | | | | |
| 60N | 1.12 | | | | | | | | | | | | | | |
| 80N | 1.09 | | | | | | | | | | | | | | |
| 100N | 1.06 | | | | | | | | | | | | | | |
| 4.8 | Steering | | P | | | | | | | | | | | | |
| 4.8.1 | Handlebar — Dimensions and end fittings | Overall width:466mm Vertical distance:217mm | P | | | | | | | | | | | | |
| 4.8.2 | Handlebar grips | Diameter of the end:42.03mm | P | | | | | | | | | | | | |
| 4.8.3 | Handlebar-stem — Insertion depth mark or positive stop | | P | | | | | | | | | | | | |
| 4.8.4 | Steering stability | Mass on front wheel / Total mass :39% | P | | | | | | | | | | | | |
| 4.8.5 | Steering assembly — Static strength and security tests | | P | | | | | | | | | | | | |
| 4.8.5.1 | Handlebar and stem assembly — Lateral bending test | Permanent set:1.67mm | P | | | | | | | | | | | | |
| 4.8.5.2 | Handlebar and stem assembly — Forward bending test | Permanent set:0.33mm | P | | | | | | | | | | | | |
| 4.8.5.3 | Handlebar to handlebar stem — Torsional security test | No movement | P | | | | | | | | | | | | |
| 4.8.5.4 | Handlebar stem to fork steerer — Torsional security test | No movement | P | | | | | | | | | | | | |
| 4.8.6 | Handlebar and stem assembly — Fatigue test | Stage 1: Test frequency:1.0Hz Test cycles:100 000 Stage 2: Test frequency:1.0Hz Test cycles:100 000 | P | | | | | | | | | | | | |
| 4.9 | Frames | | P | | | | | | | | | | | | |
| 4.9.1 | Frame and front fork assembly — Impact test (falling mass) | Permanent set:4mm | P | | | | | | | | | | | | |
| 4.9.2 | Frame and front fork assembly – impact test (falling frame) | Permanent set:6mm | P | | | | | | | | | | | | |
| 4.10 | Front fork | | P | | | | | | | | | | | | |
| 4.10.1 | General | | P | | | | | | | | | | | | |
| 4.10.2 | Front fork — Bending fatigue test | Test frequency:1.0Hz Test cycles:100 000 | P | | | | | | | | | | | | |
| 4.11 | Wheels | | P | | | | | | | | | | | | |
| 4.11.1 | Rotational accuracy | | P | | | | | | | | | | | | |
| 4.11.1.2 | Wheel/tyre assembly — Concentricity tolerance | Front wheel:0.73mm Rear wheel:0.58mm | P | | | | | | | | | | | | |
| 4.11.1.3 | Wheel/tyre assembly — Lateral tolerance | Front wheel:1.13mm Rear wheel:1.24mm | P | | | | | | | | | | | | |
| 4.11.2 | Wheel/tyre assembly — Clearance | | P | | | | | | | | | | | | |
| 4.11.3 | Wheel/tyre assembly — Static strength test | Front wheel:0.62mm Rear wheel:0.67mm | P | | | | | | | | | | | | |
| 4.11.4 | Wheel retention | | P | | | | | | | | | | | | |

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| Clause | Anforderungen - Prüfungen / Requirements - Tests | Measuring results - Remarks | Evaluation |
| 4.11.4.1 | General | Front:78% , Rear:77% | P |
| 4.11.4.2 | Front wheel retention — Retention devices secured | No relative motion | P |
| 4.11.4.3 | Rear wheel retention — Retention devices secured | No relative motion | P |
| 4.11.4.4 | Front wheel retention — Retention devices unsecured | | P |
| 4.12 | Rims, tyres and tubes | | P |
| 4.12.1 | Tyre inflation pressure | Inflation pressure: 35PSI/240Kpa | P |
| 4.12.2 | Tyre and rim compatibility | ISO 5775 is not requested. | P |
| 4.13 | Pedals and pedal/crank drive system | | P |
| 4.13.1 | Pedal tread | | P |
| 4.13.2 | Pedal clearance | | P |
| 4.13.2.1 | Ground clearance | Left side: 29°; Right side:28° | P |
| 4.13.2.2 | Toe clearance | Left side: 132mm; Right side: 130mm. | P |
| 4.13.3 | Pedal — Impact test | | P |
| 4.13.4 | Pedal/pedal-spindle — Dynamic durability test | | P |
| 4.13.5 | Drive system static strength test | Single speed system | P |
| 4.13.6 | Crank assembly — Fatigue tests | Test frequency:1.0Hz Test cycles:100 000 | P |
| 4.14 | Saddles and seat-posts | | P |
| 4.14.1 | Limiting dimensions | | P |
| 4.14.2 | Seat-post – Insertion-depth mark or positive stop | | P |
| 4.14.3 | Saddle and seat-post security test | No movement | P |
| 4.14.4 | Saddle — Static strength test | | P |
| 4.14.5 | Saddle and seat-post assembly fatigue test | No suspension Test frequency:1.0Hz Test cycles:100 000 | P |
| 4.15 | Chain-guard | | P |
| 4.16 | Stabilizers | | P |
| 4.16.1 | Mounting and dismounting | | P |
| 4.16.2 | Dimensions | Horizontal distance: Left: 210mm; Right :206mm Clearance: Left: 9mm; Right :10mm | P |
| 4.16.3 | Vertical load test | Deflection under load: Left: 14.86mm; Right :14.11mm Permanent set: Left: 2.32mm; Right :2.63mm | P |

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|---|---|---|-------------------------|
| Absatz Clause | ISO 8098:2014 Anforderungen - Prüfungen / Requirements - Tests | Messergebnisse - Bemerkungen Measuring results - Remarks | Bewertung Evaluation |
| 4.16.4 | Longitudinal load test | Permanent set: Left: 5.78mm; Right :5.63mm | P |
| 4.17 | Luggage carriers | | N/A |
| 4.18 | Lighting systems and reflectors | | P |
| 4.18.1 | Front and rear light | | N/A |
| 4.18.2 | Reflectors | | P |
| 4.18.3 | Wiring harness | | N/A |
| 4.19 | Warning device | | P |
| 5 | Instructions | | P |
| 6 | Marking | | P |
| 6.1 | Requirement | Number:YB1501J140384 | P |
| 6.2 | Durability test | | P |
| Annex A | Steering geometry (informative) | | |
| Annex B | Verification of free fall velocity (informative) | | |

*** End of test report ***