



NUMBER : TSNH00226793-S1

Applicant : ROYALBABY CYCLE BEIJING CO., LTD.
RM718, 8 SI JI QING RD., HAIDIAN DIST., BEIJING, CHINA
Attn :Junnis Cai

Date : Jun 01, 2017
This is to superseded report
TSNH00226793 dated May
31,2017

Sample Description:

Two (2) submitted samples said to be
Item Name :Children Bicycle
Item No. :RB18-23



Speed	Single-speed
Brake	V-Type brake in front & in rear
Fork	--
Frame	--
Wheel	18" wheels
Others	With quick-release device for seat post & warning device

Sample A

To be continued

Authorized By :
For Intertek Testing Services
(Tianjin) Ltd.

David Zhang
Senior Manager





NUMBER : TSNH00226793-S1



Speed	Single-speed
Brake	V-Type brake in front & in rear
Fork	--
Frame	--
Wheel	18" wheels
Others	With quick-release device for seat post & warning device

Sample B



Speed	Single-speed
Brake	V-Type brake in front & in rear
Fork	--
Frame	--
Wheel	18" wheels
Others	With training wheels & quick-release device for seat post & warning device

Sample A

To be continued

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Speed	Single-speed
Brake	V-Type brake in front & in rear
Fork	--
Frame	--
Wheel	18" wheels
Others	With training wheels & quick-release device for seat post & warning device

Sample B

Tests Conducted:

As requested by the applicant, for details refer to attached page(s).

Conclusion:

Tested sample	Standard	Result
Submitted bicycles	ISO 4210-2:2015 Cycles – Safety requirements for bicycles Part 2: Requirements for city and trekking, young adult, mountain and racing bicycles	Pass #1, #2, #3 & #4

Remark:

- #1 = The approval of compliance with ISO 5775 part 1 & part 2 is manufacturer's responsibility.
- #2 = Bicycles shall be equipped with lighting systems and reflectors in conformity with the national regulations in the country in which the bicycle is marketed.
- #3 = The requirement as per clause 4.20.4 reflectors, the retro-reflective devices shall comply with the requirement of ISO 6742-2 was not evaluated in this report. However, the applicant has submitted test data and "declaration of conformity" substantiating compliance of reflectors with ISO 6742-2.
- #4 = Compliance with warning device's provisions in force in the country in which the product is marketed is manufacturer's responsibility.

To be continued

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Safety Requirements for Bicycles

As per ISO 4210-2:2014 Cycles – Safety requirements for bicycles Part 2: Requirements for city and trekking, young adult, mountain and racing bicycles.

Its normatively referenced parts, under the general title Cycle – Safety requirements for bicycles, includes,

Part 1: Terms and definitions

Part 3: Common test methods

Part 4: Braking test methods

Part 5: Steering test methods

Part 6: Frame and fork test methods

Part 7: Wheels and rim test methods

Part 8: Pedals and drive system test methods

Part 9: Saddles and seat-post test methods

Bicycle type: Young adult bicycles

Executive summary:

Clause	Test item	Result
1	Scope	
2	Normative references	
3	Terms and definitions	
4	Requirement	
4.1	Toxicity	P (See test data #1)
4.2	Sharp edges	P
4.3	Security and strength of safety-related fasteners	
4.3.1	Security of screws	P
4.3.2	Minimum failure torque	P
4.3.3	Folding bicycles	NA
4.4	Crack detection methods	P
4.5	Protrusions	P
4.6	Brakes	
4.6.1	Braking systems	P
4.6.2	Hand-operated brakes	
4.6.2.1	Brake lever position	P
4.6.2.2	Brake lever grip dimensions	P
4.6.3	Attachment of brake assembly and cable requirements	P
4.6.4	Brake-block and brake-pad assemblies — Security test	P
4.6.5	Brake adjustment	P
4.6.6	Hand-operated braking-system — Strength test	P
4.6.7	Back-pedal braking system — Strength test	NA
4.6.8	Braking performance	P
4.6.9	Brakes — Heat-resistance test	P
4.7	Steering	

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Clause	Test item	Result
4.7.1	Handlebar — Dimensions	P
4.7.2	Handlebar grips and plugs	P
4.7.3	Handlebar stem — Insertion-depth mark or positive stop	P
4.7.4	Handlebar stem to fork steerer — Clamping requirements	NA
4.7.5	Steering stability	P
4.7.6	Steering assembly — Static strength and security tests	
4.7.6.1	Handlebar stem — Lateral bending test	P
4.7.6.2	Handlebar and stem assembly — Lateral bending test	P
4.7.6.3	Handlebar-stem — Forward bending test	P
4.7.6.4	Handlebar to handlebar stem — Torsional security test	P
4.7.6.5	Handlebar-stem to fork steerer — Torsional security test	P
4.7.6.6	Bar end to handlebar — Torsional security test	NA
4.7.6.7	Aerodynamic extensions to handlebar — Torsional security test	NA
4.7.7	Handlebar and stem assembly — fatigue test	P
4.8	Frames	
4.8.1	Suspension-frames — Special requirements	NA
4.8.2	Frame — Impact test (falling mass)	P
4.8.3	Frame and front-fork assembly - impact test (falling frame)	P
4.8.4	Frame - fatigue test with pedaling forces	P
4.8.5	Frame - fatigue test with horizontal force	P
4.8.6	Frame - fatigue test with a vertical force	P
4.9	Front fork	
4.9.1	General	
4.9.2	Means of location of the axle and wheel retention	P
4.9.3	Suspension-forks — Special requirements	NA
4.9.4	Front fork — Static bending test	P
4.9.5	Front fork — Rearward impact test	P
4.9.6	Front fork — Bending fatigue test plus rearward impact test	P
4.9.7	Forks intended for use with hub- or disc-brakes	NA
4.9.8	Tensile test for a non-welded fork	NA
4.10	Wheels and wheel/tyre assembly	
4.10.1	Wheel/tyre assembly — Concentricity tolerance and lateral tolerance	P
4.10.2	Wheel/tyre assembly — Clearance	P
4.10.3	Wheel/tyre assembly — Static strength test	P
4.10.4	Wheels — Wheel retention	P
4.10.5	Wheels — Quick-release devices — Operating features	NA
4.11	Rims, tyres and tubes	
4.11.1	General	
4.11.2	Tyre inflation pressure	P
4.11.3	Tyre and rim compatibility: comply with ISO 5775-1 & ISO 5775-2	#1
	Tyre and rim compatibility: 110% inflation for the tyre	P
4.11.4	Tubular tyres and rims	P
4.11.5	Rim-wear	P
4.11.6	Greenhouse effect test for composite wheels	NA
4.12	Front mudguards	NA

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Clause	Test item	Result
4.13	Pedals and pedal/crank drive system	
4.13.1	Pedal tread	P
4.13.2	Pedal clearance	P
4.13.3	Pedal — Static strength test	P
4.13.4	Pedal — Impact test	P
4.13.5	Pedal — Dynamic durability test	P
4.13.6	Drive-system — Static strength test	P
4.13.7	Crank assembly — Fatigue test	P
4.14	Drive-chain and drive belt	
4.14.1	Drive-chain	P
4.14.2	Drive belt	NA
4.15	Chain-wheel and belt-drive protective device	P
4.16	Saddles and seat-post	
4.16.1	Limiting dimensions	P
4.16.2	Seat-pillar — Insertion-depth mark or positive stop	P
4.16.3	Saddle/seat-post — Security test	P
4.16.4	Saddle — static strength test	P
4.16.5	Saddle and seat-post clamp — Fatigue test	P
4.16.6	Seat-post — Fatigue test	P
4.17	Spoke protector	NA
4.18	Luggage carriers	NA
4.19	Road test of a fully assembled bicycle	P
4.20	Lighting systems and reflectors	
4.20.1	General	#2
4.20.2	Wiring harness	NA
4.20.3	Lighting systems	NA
4.20.4	Reflectors	P #3
4.21	Warning device	#4
5	Manufacturer's instructions	P
6	Marking	P

Abbreviation: P = Pass
 NA = Not Applicable

To be continued



Test Data

#1. 19 Toxic Element Migration Test

(A) Test Result

As per EN71-3:2013+A1:2014 and followed by ICP-OES, ICP-MS, LC-ICP-MS, and GC-MS.

Category (III): Scraped-off toy material

Element	Result (mg/kg)									Limit (mg/kg)
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	
Aluminium (Al)	<300	<300	<300	<300	<300	<300	<300	<300	<300	70000
Antimony (Sb)	<10	<10	<10	<10	<10	<10	<10	<10	<10	560
Arsenic (As)	<10	<10	<10	<10	<10	<10	<10	<10	<10	47
Barium (Ba)	<10	188	1340	15	1559	21	<10	<10	<10	18750
Boron (B)	<50	<50	<50	<50	<50	<50	<50	<50	<50	15000
Cadmium (Cd)	<5	<5	<5	<5	<5	<5	<5	<5	<5	17
Chromium (III) (Cr III)	<10	<10	<10	<10	<10	37	<10	<10	<10	460
Chromium (VI) (Cr VI)	<0.2 #	<0.2 #	<0.2 #	<0.2 #	<0.2 #	<0.2 #	<0.2 #	<0.2 #	<0.2 #	0.2
Cobalt (Co)	<10	<10	<10	<10	<10	<10	<10	<10	<10	130
Copper (Cu)	<10	<10	14	11	32	168	<10	<10	<10	7700
Lead (Pb)	<10	<10	<10	<10	<10	<10	<10	<10	<10	160
Manganese (Mn)	<10	17	34	<10	24	378	<10	<10	<10	15000
Mercury (Hg)	<10	<10	<10	<10	<10	<10	<10	<10	<10	94
Nickel (Ni)	<10	<10	<10	<10	<10	30	<10	<10	<10	930
Selenium (Se)	<10	<10	<10	<10	<10	<10	<10	<10	<10	460
Strontium (Sr)	<100	<100	<100	<100	<100	<100	<100	<100	<100	56000
Tin (Sn)	<10	<10	<10	<10	<10	<10	<10	<10	<10	180000
Organic tin	<3	<3	<3	<3	<3	<3	<3	<3	<3	12
Zinc (Zn)	<100	289	<100	<100	982	<100	<100	<100	<100	46000

Remark : mg/kg = milligram per kilogram

- Organic tin test result was expressed as tributyl tin.

- Unless specified, determination of Chromium (III), Chromium (VI) and Organic tin was based on elemental analysis.

The above reference limit was quoted according to Annex II Part III Items 13 of the European Council Directive 2009/48/EC, amendment 2012/7/EU and amendment 681/2013/EU for 19 toxic elements in toys.

= Confirmation of Chromium (VI) test was performed on the tested component.

To be continued



Tested Component(s):

- (1) Matt black coating on metal for sample A use(frame)
- (2) Orange coating on metal for sample B use(frame,brake lever)
- (3) Red coating on metal for sample A use(front fork,rim of wheel,brake lever)
- (4) Black coating on metal for sample B use(front fork)
- (5) White coating on metal for samples A&B use(crank set)
- (6) Black coating on metal for samples A&B use(handlebar&stem,brake arm,spoke,kick stand,brace of training wheel,hub,seat post,saddle support,rim of wheel)
- (7) Black/red plastic for sample A use(saddle)
- (8) Black/yellow plastic for sample B use(saddle)
- (9) Black plastic for samples A&B use(grip)

(B) Categories of various toy materials

Category I: Dry, brittle, powder like or pliable

Solid toy material from which powder-like material is released during playing and semi-solid materials that may also leave residues on the hands during play. The material can be ingested. Contamination of the hands with the material may contribute to the oral exposure of the material. (e.g. the cores of colouring pencils, chalk, crayons, modelling clays and plaster).

Category II: Liquid or sticky

Fluid or viscous toy material, which can be ingested or to which dermal exposure may occur during playing. (e.g. liquid paints, finger paints, liquid ink in pens, glue sticks, slimes, bubble solution).

Category III : Scraped-off

Solid toy material with or without a coating, which can be ingested as a result of biting, tooth scraping, sucking or licking. (e.g. coatings, lacquers, plastics, paper, textiles, glass, ceramic, metallic, wooden, bone , leather and other materials).

Date sample received: Apr 05, 2017

Testing period: Apr 05, 2017 to May 27, 2017

To be continued

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NUMBER : TSNH00226793-S1

Re : report revision notification

Report number TSNH00226793 dated May 31, 2017

Please be informed that all the content recorded in the above captioned report will be void. This captioned report is now superseded by a revised report, number TSNH00226793-S1, issued on Jun 01, 2017.

Please return the original captioned report to us immediately.

Thank you for your attention.

End of report