



Test Report

Number: SZHH0109201301S2

Applicant: DONGGUAN LIYANG TOYS LTD.
Floor 3, Building 2, Daxingwei Industry
Xianxi, Wusha, Changan Town,
Dongguan City, Guangdong Province

Date: Mar 25, 2017

Attn: 陈效

*This is to supersede Report No.
SZHH0109201301S1 dated Mar
17, 2017*

Sample Description:

Twenty-six (26) piece of submitted sample said to be :

- Item Name : **B-Yours.**
- Item No. : **BL-52013, BL-52093, BL-36791, BL-11390, BL-11392, BL-11399, BL-11396, BL-10031, BL-36795, BL-10030, BL-11321.**
- Reference No. : **BL-10070, BL-10071, BL-10090, BL-10091, BL-10120, BL-10121, BL-11310, BL-11311, BL-11312, BL-11320, BL-11322, BL-11350, BL-11351, BL-11352, BL-11380, BL-11381, BL-11382, BL-16489, BL-15100, BL-05500, BL-05522, BL-05501, BL-05506, BL-05510, BL-37000, BL-37001, BL-05545, BL-24110, BL-24162, BL10500, BL10502, BL-10600, BL-10602, BL-16421, BL-16422, BL-16423, BL-16429, BL-26110, BL-26111, BL-26112, BL-26113, BL-26119, BL-58110, BL-58111, BL-58112, BL-58113, BL-58119, BL-29750, BL-29751, BL-29753, BL-29717, BL-52010, BL-52011, BL-36790, BL-36793, BL-36795, BL-19700, BL-19701, BL-19600, BL-19601, BL-11393, BL-12050, BL-12051, BL-12052, BL-12053, BL-12059., BL-25500, BL-25501, BL-25522.**
- Labelled Age Group : Not specified.
- Applicant Specified Age : Adult.
- Grading for Testing
- Packaging Provided by Applicant : No.
- Additional Material and Wet Paint Provided : No.
- Date Sample Received : Sep 13, 2016 & Feb 22, 2017.

To be continued

Authorized by:
For Intertek Testing Services
Shenzhen Ltd.

Ben N.L. Lin
General Manager



Intertek Testing Services Shenzhen Ltd.- Hardlines

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Tests conducted:

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

Conclusion:

<u>Tested Sample</u>	<u>Standard</u>	<u>Result</u>
Tested components of submitted samples	Consent Judgment No. RG- 356892 for total Lead content based on the California Proposition 65	See test conducted
	Screening by XRF spectroscopy and chemical confirmation test for RoHS Directive 2011/65/EU	Pass

Remark:

Not test was conducted on screened components 31. All result of these components stated in the report were referred to our report SZHH001092028 dated on Sep 21, 2016

Authorized by:
For Intertek Testing Services
Shenzhen Ltd.

Ben N.L. Lin
General Manager





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Tests Conducted

1 Total Lead Content

Acid digestion method was used and total Lead content was determined by Inductively Coupled Argon Plasma Spectrometry.

Element	Result (mg/kg) ^θ	Reporting Limit (mg/kg)	Limit (mg/kg)
	Tested Component		
	(1+2+3),(4+5+6),(7+8+9), (10+11+12),(13+14+15),(16+17),(18+19+20)		
Lead (Pb)	ND	10	100

The above limit was referred to the Consent Judgment No. RG- 356892 settled by superior court of the State of California for the county of Alameda, for toys based on the California Proposition 65.

ND = Not detected

θ = Single result for each test component/group

Tested Components:

- (1) Black plastic (body of BL36795)
- (2) Purple plastic (body of BL36791)
- (3) Flesh/red plastic (body of BL52013)
- (4) Brown plastic (body of BL52093)
- (5) Translucent grey plastic (body of BL11399-b)
- (6) Dark brown plastic (body of BL11396-b)
- (7) Translucent pink plastic (body of BL11390-b)
- (8) Translucent blue plastic (body of BL11392-b)
- (9) Transparent pink plastic (body of BL-10030-b)
- (10) Transparent purple plastic (body of BL-10031-b)
- (11) Transparent blue plastic (body of BL-11312-b)
- (12) Transparent pink plastic (handle of BL-10030-b)
- (13) Transparent purple plastic (handle of BL-10031-b)
- (14) Transparent blue plastic (handle of BL-11312-b)
- (15) Translucent plastic (ring of BL-10030-b, BL-10031-b, BL-11312-b)
- (16) Silver color metal (screw of BL-10030-b, BL-10031-b, BL-11312-b)
- (17) Silver color metal (plate of battery box of BL-10030-b, BL-10031-b, BL-11312-b)
- (18) Gold color metal (small eyelet of battery box of BL-10030-b, BL-10031-b, BL-11312-b)
- (19) Gold color metal (big eyelet of battery box of BL-10030-b, BL-10031-b, BL-11312-b)
- (20) Silver color metal (wire of battery box of BL-10030-b, BL-10031-b, BL-11312-b)



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Tests Conducted

2 RoHS Chemical Test

(A) Screening Test by XRF Spectroscopy

Cadmium (Cd), Lead (Pb), Mercury (Hg), Chromium (Cr) and Bromine (Br) content were measured with reference to IEC 62321-3-1 Edition 1.0 : 2013 by XRF spectroscopy and chemical confirmation test for RoHS restricted substances.

Screened Components	XRF Results		Chemical Confirmation Result
1	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
2	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
3	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
4	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	



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Tests Conducted

Screened Components	XRF Results		Chemical Confirmation Result
5	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
6	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
7	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
8	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
9	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	





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Screened Components	XRF Results		Chemical Confirmation Result
10	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
11	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
12	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
13	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
14	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	



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Screened Components	XRF Results		Chemical Confirmation Result
15	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
16	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	NT	
17	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	NT	
18	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	NT	
19	Cd	ND	Cr ⁶⁺ :Negative(<0.10µg/cm ²)
	Pb	ND	
	Hg	ND	
	Cr	Inconclusive	
	Br	NT	



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Screened Components	XRF Results		Chemical Confirmation Result
20	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	NT	
21	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
22	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
23	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	NT	
24	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	NT	





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Screened Components	XRF Results		Chemical Confirmation Result
25	Cd	ND	Cr ⁶⁺ :Negative(<0.10µg/cm ²)
	Pb	ND	
	Hg	ND	
	Cr	Inconclusive	
	Br	NT	
26	Cd	ND	Cr ⁶⁺ :Negative(<0.10µg/cm ²)
	Pb	ND	
	Hg	ND	
	Cr	Inconclusive	
	Br	NT	
27	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	NT	
28	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
29	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	NT	



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Screened Components	XRF Results		Chemical Confirmation Result
30	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
31a	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	NT	
	Br	NT	
31b	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	NT	
	Br	NT	
31c	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	NT	
	Br	ND	
31d	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	NT	
	Br	NT	





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Screened Components	XRF Results		Chemical Confirmation Result
31e	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	NT	
	Br	NT	
31f	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	NT	
31g	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	NT	
31h	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
31i	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	





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Screened Components	XRF Results		Chemical Confirmation Result
31j	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
31k	Cd	ND	Cr ⁶⁺ :Negative(<0.10µg/cm ²)
	Pb	ND	
	Hg	ND	
	Cr	Inconclusive	
	Br	NT	
31l	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
31m	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
31n	Cd	ND	Cr ⁶⁺ :ND(<1mg/kg)
	Pb	ND	
	Hg	ND	
	Cr	Inconclusive	
	Br	NT	



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Screened Components	XRF Results		Chemical Confirmation Result
31o	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
31p	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	NT	
31q	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
31r	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	NT	
31s	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	NT	





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Screened Components	XRF Results		Chemical Confirmation Result
32	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	NT	

ND = Not detected
NT = Not tested

Positive = A positive test result indicated the concentration of Cr(VI) is greater than threshold of 0.13µg/cm² for boiling-water-extraction procedures by visual comparison / by UV-VIS Spectrophotometer analysis. The sample coating is considered to contain Cr(VI).

Negative = A negative test result indicated the concentration of Cr(VI) is less than threshold of 0.10µg/cm² for boiling-water-extraction procedures by UV-VIS Spectrophotometer analysis. The coating is considered a non-Cr(VI) based coating.

(B) XRF Screening Limits in mg/kg for Regulated Elements in Various Matrices

Element	Polymer Materials	Metallic Materials	Composite Materials
Cd	P ≤ 70 < X < 130 ≤ F	P ≤ 70 < X < 130 ≤ F	P ≤ 70 < X < 150 ≤ F
Pb	P ≤ 700 < X < 1300 ≤ F	P ≤ 700 < X < 1300 ≤ F	P ≤ 500 < X < 1500 ≤ F
Hg	P ≤ 700 < X < 1300 ≤ F	P ≤ 700 < X < 1300 ≤ F	P ≤ 500 < X < 1500 ≤ F
Cr	P ≤ 700 < X	P ≤ 700 < X	P ≤ 500 < X
Br	P ≤ 300 < X	Not applicable	P ≤ 250 < X

P = Pass
X = Inconclusive result
F = Fail

mg/kg = milligram per kilogram = ppm

Tests Conducted

(C) Estimated Detection Limits in mg/kg for Regulated Elements in Various Matrices

Element	Polymer Materials	Metallic Materials	Composite Materials
Cd	50	70	70
Pb	100	200	200
Hg	100	200	200
Cr	100	200	200
Br	200	Not applicable	200

Disclaimers:

This XRF Screening and Chemical Confirmation Test Report is for reference purposes only. The applicant shall make its/his/her own judgment as to whether the information provided in this XRF Screening and Chemical Confirmation Test Report is sufficient for its/his/her purposes.

The results shown in this XRF Screening and Chemical Confirmation Test Report will differ based on various factors, including but not limited to, the sample size, thickness, area, surface flatness, equipment parameters and matrix effect (e.g. plastic, rubber, metal, glass, ceramic etc.). Further wet chemical pre-treatment with relevant chemical equipment analysis is required to obtain quantitative data.

(D) Chemical Confirmation Test Methods:

Testing Item	Testing Method	Reporting Limit
Chromium (VI) (Cr ⁶⁺) Content	With reference to IEC 62321-7-1 Edition 1.0:2015, by boiling water extraction and determined by UV-VIS Spectrophotometer	0.10µg/cm ²
Chromium (VI)(Cr ⁶⁺) Content	With reference to IEC 62321 Edition 1.0:2008, by alkaline digestion and determined by UV-VIS Spectrophotometer	1 mg/kg

(E) RoHS Requirement:

Restricted Substances	Limits
Cadmium (Cd)	0.01% (100 mg/kg)
Lead (Pb)	0.1% (1000 mg/kg)
Mercury (Hg)	0.1% (1000 mg/kg)
Chromium (VI) (Cr ⁶⁺)	0.1% (1000 mg/kg)
Polybrominated Biphenyls (PBBs)	0.1% (1000 mg/kg)
Polybrominated Diphenyl Ethers (PBDEs)	0.1% (1000 mg/kg)



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Tested Components:

- 1 Black plastic (body of BL36795)
- 2 Purple plastic (body of BL36791)
- 3 Flesh/red plastic (body of BL52013)
- 4 Brown plastic (body of BL52093)
- 5 Translucent grey plastic (body of BL11399-b)
- 6 Dark brown plastic (body of BL11396-b)
- 7 Translucent pink plastic (body of BL11390-b)
- 8 Translucent blue plastic (body of BL11392-b)
- 9 Transparent pink plastic (body of BL-10030-b)
- 10 Transparent purple plastic (body of BL-10031-b)
- 11 Transparent blue plastic (body of BL-11312-b)
- 12 Transparent pink plastic (handle of BL-10030-b)
- 13 Transparent purple plastic (handle of BL-10031-b)
- 14 Transparent blue plastic (handle of BL-11312-b)
- 15 Translucent plastic (ring of BL-10030-b, BL-10031-b, BL-11312-b)
- 16 Silver color metal (big screw)
- 17 Silver color metal (small screw)
- 18 Gold color metal (spring holder)
- 19 Silver color metal (spring)
- 20 Gold color metal
- 21 Translucent plastic (washer)
- 22 Black plastic
- 23 Silver color metal (spring)
- 24 Gold color metal (small eyelet)
- 25 Silver color metal (small plate)
- 26 Silver color metal (big plate)
- 27 Gold color metal (big eyelet)
- 28 Transparent plastic (wire covering)
- 29 Silver color metal (wire)
- 30 Transparent plastic (motor case)





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Tests Conducted

Tested Components:

31

K:1092028-Motor

#16

- (a) Silver color metal (case).
- (b) Copper color metal (washer).
- (c) Black magnet with white coating.
- (d) Dull silver-grey metal.
- (e) Black plated metal.
- (f) Gold color metal with solder.
- (g) Copper color metal.
- (h) Transparent cream plastic.
- (i) White plastic (washer).
- (j) White plastic (washer).
- (k) Silver-grey metal.
- (l) Copper color enamelled wire.
- (m) White plastic.
- (n) Black magnet with silver color metal & solder.
- (o) Dull cream plastic.
- (p) Copper color metal.
- (q) Red paper (washer).
- (r) Gold color metal (washer).
- (s) Silver color metal (axle).

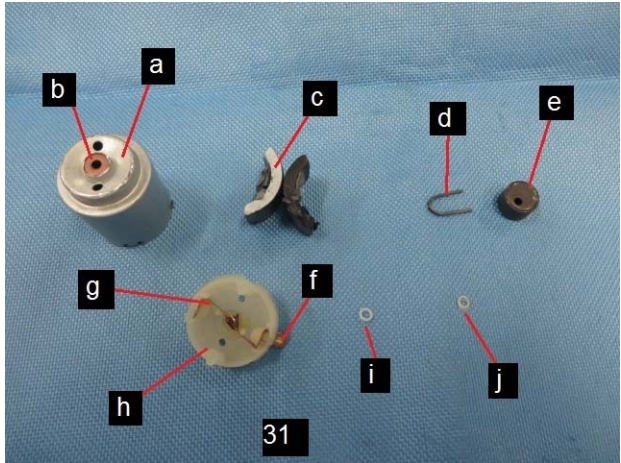
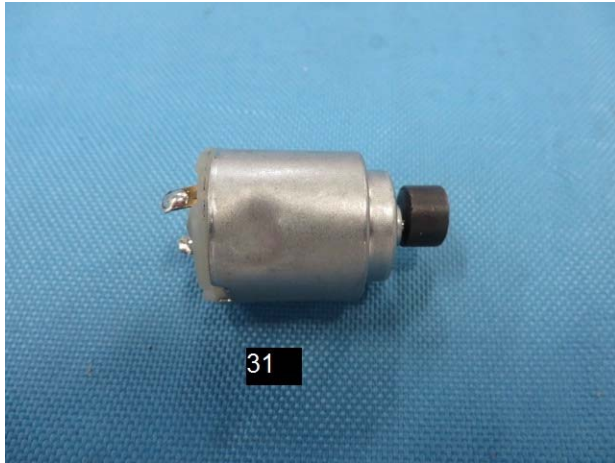
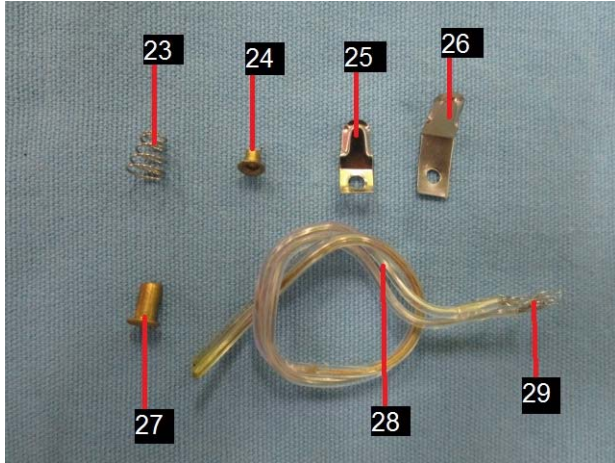
32 Gold color metal (ring of big eyelet of BL-11312-b)



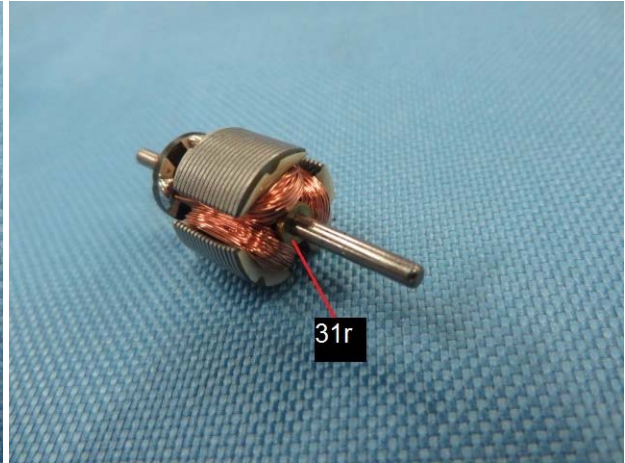
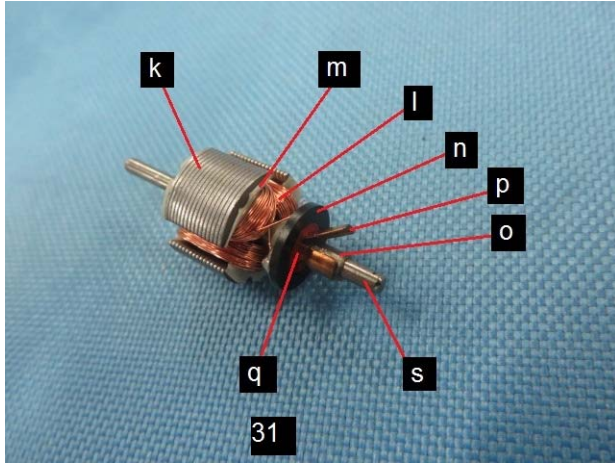
Tests Conducted



Tests Conducted



Tests Conducted



End of Report

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To: DONGGUAN LIYANG TOYS LTD.

Attention: 陈效

Date: Mar 25, 2017

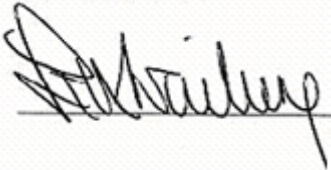
Re : Report Revision Notification

Intertek Testing Services Report Number SZHH0109201301S1/02S1 Dated Mar 17, 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 Intertek Testing Services Report SZHH0109201301S2/02S2

Thank you for your attention.

Authorized by:
For Intertek Testing Services
Shenzhen Ltd.



Ben N.L. Lin
General Manager

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