



Test Report

No.: SHHL2207031373TY

Date: AUG 04, 2022

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HAPE INTERNATIONAL (NINGBO) LTD
HAPPY ARTS&CRAFTS (NINGBO) CO., LTD
9-27NANHAI ROAD, DAGANG INDUSTRIAL CITY, BEILUN, NINGBO, CHINA

WHITE INTERCITY BATTERY POWERED LOCOMOTIVE/
BLACK INTERCITY BATTERY POWERED LOCOMOTIVE/ RED
INTERCITY BATTERY POWERED LOCOMOTIVE/ PINK
INTERCITY BATTERY POWERED LOCOMOTIVE/ INTERCITY

Sample Description : BATTERY POWERED LOCOMOTIVE SET
Sample Quantity : 25 PCS
Style / Item No. : E3784/ E3785/ E3786/ E3787/ E3789
Country of Origin : CHINA
Country of Destination : GLOBAL
Labeled Age Grading : 3 Y+
Requested Age Grading : 3 Y+
Client reference information : E3784A/E3785A/E3786A/E3787A/E3789A

Age Group Assessed as Per Age Guideline : 18+ MONTHS
Age Group Applied in Testing : 18+ MONTHS
Sample Receiving Date : JUL 27, 2022
Further Information Date : AUG 02, 2022
Testing Period : JUL 27, 2022 TO AUG 04, 2022

Table with 2 columns: Test Requested, Result. Rows include ASTM F963-17 Standard Consumer Safety Specification for Toy Safety (Pass), Physical and mechanical tests consisting US CPSC 16 CFR 1500.48, US CPSC 16 CFR 1500.49 and US CPSC 16 CFR 1501 (Pass), US CPSC 16 CFR 1500.19 - Misbranded toys and other articles intended for use by children (Not Applicable), US CPSC 16 CFR 1500.44 - Method for determining extremely flammable and flammable solids (Pass), Tracking label per Consumer Product Safety Improvement Act (CPSIA) of 2008 section 103 tracking labels for children's products. (Pass), Total Lead(Pb) (Pass), CPSIA section 101(f) - Lead in paint/similar surface coating material (Pass), Part 1303, Title 16, Code of Federal Regulations, Chapter II - Consumer Products Safety Commission of U.S.A.-Lead (Pass), CPSIA section 101(a)(2) - Lead in accessible substrate materials (Pass)



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Signed for and on behalf of
SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd.



Jessie Zhou

Jessie Zhou
Authorized Signatory



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Test Result

ASTM F963-17 STANDARD CONSUMER SAFETY SPECIFICATION FOR TOY SAFETY

AS SPECIFIED IN ASTM F963-17 STANDARD CONSUMER SAFETY SPECIFICATION ON TOYS SAFETY

Clauses relevant to the item:

<u>Clause</u>	<u>Description</u>	<u>Result</u>
4	Safety Requirements	
4.1	Material Quality **	Pass
4.2	Flammability Test	Pass (See Detail of test result)
4.3	Toxicology	
4.3.5	Heavy Elements	
4.3.5.1	Heavy Elements in Paint/Similar Surface Coating Materials	Pass (See Detail of test result)
4.3.5.2	Heavy Metal in Substrate Materials	Pass (See Detail of test result)
4.6.1	Small Objects	Pass
4.7	Accessible Edges	Pass
4.8	Projections	Pass
4.9	Accessible Points	Pass
4.11	Nails and Fasteners	Pass
4.17	Wheels, Tires, and Axles	Pass
4.18	Holes, Clearance & Accessibility of Mechanisms	Pass
4.25	Battery-Operated Toys	Pass
4.38	Magnets	Pass
5	Safety Labeling Requirements	
5.2	Age Grading Labeling	Pass
5.16	Promotional Materials	Pass
6	Instructional Literature	
6.5	Battery-Operated Toys	Pass
7	Producer's Markings	
7.1	Producer's Markings	Pass
8.5	Normal Use Testing	Pass
8.7	Impact Test	Pass
8.8	Torque Test	Pass
8.9	Tension Test	Pass

** Visual Examination



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Detail of test result:

ASTM F963-17, Clause 4.2 – Flammability Test
Flammability Test on Solid

<u>Sample</u>	<u>Burning Rate (inch/sec)</u>
LOCOMOTIVE	DNI

Requirement: A toy / component is considered a “flammable solid” if it ignites and burns with a self-sustaining flame at a rate greater than 0.10 in/sec along its major axis.

DNI = Did Not Ignite

PHYSICAL AND MECHANICAL TESTS CONSISTING US CPSC 16 CFR 1500.48, US CPSC 16 CFR 1500.49 AND US CPSC 16 CFR 1501

AS SPECIFIED IN PHYSICAL AND MECHANICAL TESTS CONSISTING US CPSC 16 CFR 1500.48, US CPSC 16 CFR 1500.49 AND US CPSC 16 CFR 1501

	<u>No. of sample tested</u>	<u>Sharp point (16 CFR 1500.48)</u>	<u>Sharp edge (16 CFR 1500.49)</u>	<u>Small part (16 CFR 1501)</u>
As received	5	Pass	Pass	Pass
Impact test (16 CFR 1500.52b)	5	Pass	Pass	Pass
Bite test (16 CFR 1500.52c)	5	N/A	N/A	N/A
Flexure test (16 CFR 1500.53d)	0	N/A	N/A	N/A
Torque test (16 CFR 1500.53e)	5	Pass	Pass	Pass
Tension test (16 CFR 1500.53f)	5	Pass	Pass	Pass
Compression test (16 CFR 1500.53g)	0	N/A	N/A	N/A

N/A = Not Applicable

US CPSC 16 CFR 1500.19 – MISBRANDED TOYS AND OTHER ARTICLES INTENDED FOR USE BY CHILDREN
NOT APPLICABLE



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US CPSC 16 CFR 1500.44 – METHOD FOR DETERMINING EXTREMELY FLAMMABLE AND FLAMMABLE SOLIDS

AS SPECIFIED IN US CPSC 16 CFR 1500.44 – METHOD FOR DETERMINING EXTREMELY FLAMMABLE AND FLAMMABLE SOLIDS

<u>Sample</u>	<u>Burning Rate (inch/sec)</u>
LOCOMOTIVE	DNI

Requirement: A toy / component is considered a “flammable solid” if it ignites and burns with a self-sustaining flame at a rate greater than 0.10 in/sec along its major axis.

DNI = Did Not Ignite

TRACKING LABEL PER CONSUMER PRODUCT SAFETY IMPROVEMENT ACT (CPSIA) OF 2008 SECTION 103 TRACKING LABELS FOR CHILDREN’S PRODUCTS.

Notes:

Note 1: As specified in Consumer Product Safety Improvement Act (CPSIA) of 2008 section 103 tracking labels for children’s products.

- Tracking label found on the packaging: HAPE P2112602868 NBCN 07/2021
- Tracking label found on the product: HAPE P2112602868 NBCN 07/2021

Note 2: 1) The tracking label assessment was based on the submitted samples and the information provided by the applicant. There was no verification on the validity of such information.
 2) City and State, or administrative state shall be also provided for the source (location) information.



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Test Results:

Test Part Description:

SN ID.	Sample No.	SGS Sample ID	Description
SN1	A1	SHA22-0003361-0001.C001	Blue coating
SN2	A2	SHA22-0003361-0001.C002	Silvery coating
SN3	A3	SHA22-0003361-0001.C003	Black coating
SN4	A4	SHA22-0003361-0001.C004	Grey coating
SN5	A5	SHA22-0003361-0001.C005	Dark grey coating
SN6	A6	SHA22-0003361-0001.C006	Orang coating
SN7	A7	SHA22-0003361-0001.C007	White coating
SN8	A8	SHA22-0003361-0001.C008	Pink coating
SN9	A9	SHA22-0003361-0001.C009	Light yellow coating
SN10	A10	SHA22-0003361-0001.C010	White ABS
SN11	A11	SHA22-0003361-0001.C011	Pink ABS
SN12	A12	SHA22-0003361-0001.C012	Red ABS
SN13	A13	SHA22-0003361-0001.C013	Black-grey ABS
SN14	A14	SHA22-0003361-0001.C014	Dark grey ABS
SN15	A15	SHA22-0003361-0001.C015	Grey ABS
SN16	A16	SHA22-0003361-0001.C016	Yellow ABS
SN17	A17	SHA22-0003361-0001.C017	Black ABS
SN18	A18	SHA22-0003361-0001.C018	Grey ABS
SN19	A19	SHA22-0003361-0001.C019	Pink ABS
SN20	A20	SHA22-0003361-0001.C020	Black soft plastic
SN21	A21	SHA22-0003361-0001.C021	Silvery metal
SN22	A22	SHA22-0003361-0001.C022	Silvery metal magnet

Remarks:

- (1) 1 mg/kg = 0.0001%
- (2) MDL = Method Detection Limit
- (3) ND = Not Detected (< MDL)
- (4) “-“ = Not Regulated



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Total Lead(Pb)

Test Method: With reference to EPA3050:1996, analysis was performed by AAS.

Test Item(s)	Limit	Units	MDL	A21	A22
Lead (Pb)	40	mg/kg	2	18	ND
Conclusion				Pass	Pass

Notes:

The maximum permissible limit is quoted from the client requirement.

Test Method: With reference to US EPA 3052:1996, analysis was performed by ICP-OES.

Test Item(s)	Limit	Units	MDL	A1	A2	A3
Lead (Pb)	40	mg/kg	2	ND	ND	ND
Conclusion				Pass	Pass	Pass

Test Item(s)	Limit	Units	MDL	A4	A5	A6
Lead (Pb)	40	mg/kg	2	ND	ND	ND
Conclusion				Pass	Pass	Pass

Test Item(s)	Limit	Units	MDL	A7	A8	A9
Lead (Pb)	40	mg/kg	2	ND	ND	ND
Conclusion				Pass	Pass	Pass

Test Item(s)	Limit	Units	MDL	A10	A11	A12
Lead (Pb)	40	mg/kg	2	ND	ND	ND
Conclusion				Pass	Pass	Pass

Test Item(s)	Limit	Units	MDL	A13	A14	A15
Lead (Pb)	40	mg/kg	2	ND	ND	ND
Conclusion				Pass	Pass	Pass

Test Item(s)	Limit	Units	MDL	A16	A17	A18
Lead (Pb)	40	mg/kg	2	ND	ND	ND
Conclusion				Pass	Pass	Pass



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Test Item(s)	Limit	Units	MDL	A19	A20
Lead (Pb)	40	mg/kg	2	ND	ND
Conclusion				Pass	Pass

Notes:

The maximum permissible limit is quoted from the client requirement.

American Society for Testing and Materials - ASTM F 963-17 - total Lead in paint and similar surface-coating materials

Test Method: With reference to CPSC-CH-E1003-09.1, analysis was performed by AAS or ICP-OES.

Test Item(s)	Limit	Units	MDL	A1	A2	A3
Total Lead (Pb)	90	mg/kg	20	ND	ND	ND
Conclusion				Pass	Pass	Pass

Test Item(s)	Limit	Units	MDL	A4	A5	A6
Total Lead (Pb)	90	mg/kg	20	ND	ND	ND
Conclusion				Pass	Pass	Pass

Test Item(s)	Limit	Units	MDL	A7	A8	A9
Total Lead (Pb)	90	mg/kg	20	ND	ND	ND
Conclusion				Pass	Pass	Pass

CPSIA section 101(f) - Lead in paint/similar surface coating material

Test Method: With reference to CPSC-CH-E1003-09.1, analysis was performed by AAS or ICP-OES.

Test Item(s)	Limit	Units	MDL	A1	A2	A3
Lead (Pb)	0.009	%	0.0020	ND	ND	ND
Conclusion				Pass	Pass	Pass

Test Item(s)	Limit	Units	MDL	A4	A5	A6
Lead (Pb)	0.009	%	0.0020	ND	ND	ND
Conclusion				Pass	Pass	Pass



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Test Item(s)	Limit	Units	MDL	A7	A8	A9
Lead (Pb)	0.009	%	0.0020	ND	ND	ND
Conclusion				Pass	Pass	Pass

Part 1303, Title 16, Code of Federal Regulations, Chapter II - Consumer Products Safety Commission of U.S.A.-Lead

Test Method: With reference to CPSC-CH-E1003-09.1, analysis was performed by AAS or ICP-OES.

Test Item(s)	Limit	Units	MDL	A1	A2	A3
Lead(Pb)	0.009	%	0.0020	ND	ND	ND
Conclusion				Pass	Pass	Pass

Test Item(s)	Limit	Units	MDL	A4	A5	A6
Lead(Pb)	0.009	%	0.0020	ND	ND	ND
Conclusion				Pass	Pass	Pass

Test Item(s)	Limit	Units	MDL	A7	A8	A9
Lead(Pb)	0.009	%	0.0020	ND	ND	ND
Conclusion				Pass	Pass	Pass

American Society for Testing and Materials - ASTM F 963-17 - total Lead in Substrate Materials

Test Method: With reference to CPSC-CH-E1001-08.3, analysis was performed by AAS or ICP-OES.

Test Item(s)	Limit	Units	MDL	A21	A22
Total Lead (Pb)	100	mg/kg	20	ND	ND
Conclusion				Pass	Pass

Test Method: With reference to CPSC-CH-E1002-08.3, analysis was performed by AAS or ICP-OES.

Test Item(s)	Limit	Units	MDL	A10	A11	A12
Total Lead (Pb)	100	mg/kg	20	ND	ND	ND
Conclusion				Pass	Pass	Pass

Test Item(s)	Limit	Units	MDL	A13	A14	A15
Total Lead (Pb)	100	mg/kg	20	ND	ND	ND
Conclusion				Pass	Pass	Pass



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Test Item(s)	Limit	Units	MDL	A16	A17	A18
Total Lead (Pb)	100	mg/kg	20	ND	ND	ND
Conclusion				Pass	Pass	Pass

Test Item(s)	Limit	Units	MDL	A19	A20
Total Lead (Pb)	100	mg/kg	20	ND	ND
Conclusion				Pass	Pass

CPSIA section 101(a)(2) - Lead in accessible substrate materials

Test Method: With reference to CPSC-CH-E1002-08.3, analysis was performed by AAS or ICP-OES.

Test Item(s)	Limit	Units	MDL	A10	A11	A12
Lead (Pb)	0.01	%	0.0020	ND	ND	ND
Conclusion				Pass	Pass	Pass

Test Item(s)	Limit	Units	MDL	A13	A14	A15
Lead (Pb)	0.01	%	0.0020	ND	ND	ND
Conclusion				Pass	Pass	Pass

Test Item(s)	Limit	Units	MDL	A16	A17	A18
Lead (Pb)	0.01	%	0.0020	ND	ND	ND
Conclusion				Pass	Pass	Pass

Test Item(s)	Limit	Units	MDL	A19	A20
Lead (Pb)	0.01	%	0.0020	ND	ND
Conclusion				Pass	Pass

Test Method: With reference to CPSC-CH-E1001-08.3, analysis was performed by AAS or ICP-OES.

Test Item(s)	Limit	Units	MDL	A21	A22
Lead (Pb)	0.01	%	0.0020	ND	ND
Conclusion				Pass	Pass



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American Society for Testing and Materials - ASTM F 963-17 - soluble Heavy Metal for paint and similar surface-coating materials

Test Method: With reference to ASTM F 963-17 (Clause 8.3), analysis was performed by ICP-OES.

Test Item(s)	Limit	Units	MDL	A1*	A2*	A3*
Soluble Lead (Pb)	90	mg/kg	5	-	-	-
Soluble Antimony (Sb)	60	mg/kg	5	-	-	-
Soluble Arsenic (As)	25	mg/kg	2.5	-	-	-
Soluble Barium (Ba)	1000	mg/kg	10	-	-	-
Soluble Cadmium (Cd)	75	mg/kg	5	-	-	-
Soluble Chromium(Cr)	60	mg/kg	5	-	-	-
Soluble Mercury (Hg)	60	mg/kg	5	-	-	-
Soluble Selenium (Se)	500	mg/kg	10	-	-	-
Conclusion				Pass	Pass	Pass

Test Item(s)	Limit	Units	MDL	A4*	A5*	A6*
Soluble Lead (Pb)	90	mg/kg	5	-	-	-
Soluble Antimony (Sb)	60	mg/kg	5	-	-	-
Soluble Arsenic (As)	25	mg/kg	2.5	-	-	-
Soluble Barium (Ba)	1000	mg/kg	10	-	-	-
Soluble Cadmium (Cd)	75	mg/kg	5	-	-	-
Soluble Chromium(Cr)	60	mg/kg	5	-	-	-
Soluble Mercury (Hg)	60	mg/kg	5	-	-	-
Soluble Selenium (Se)	500	mg/kg	10	-	-	-
Conclusion				Pass	Pass	Pass

Test Item(s)	Limit	Units	MDL	A7*	A8*	A9*
Soluble Lead (Pb)	90	mg/kg	5	-	-	-
Soluble Antimony (Sb)	60	mg/kg	5	-	-	-
Soluble Arsenic (As)	25	mg/kg	2.5	-	-	-
Soluble Barium (Ba)	1000	mg/kg	10	-	-	-
Soluble Cadmium (Cd)	75	mg/kg	5	-	-	-
Soluble Chromium(Cr)	60	mg/kg	5	-	-	-
Soluble Mercury (Hg)	60	mg/kg	5	-	-	-



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Test Item(s)	Limit	Units	MDL	A7*	A8*	A9*
Soluble Selenium (Se)	500	mg/kg	10	-	-	-
Conclusion				Pass	Pass	Pass

Notes:

(1) *As received, the test portion is less than 10 mg, therefore such components were not tested for migration of certain elements, as specified in the ASTM F963-17 Clause 8.3.3.6 (2)-selection of test portions.

American Society for Testing and Materials - ASTM F 963-17 - soluble Heavy Metal for Substrate Materials

Test Method: With reference to ASTM F 963-17 (Clause 8.3), analysis was performed by ICP-OES.

Test Item(s)	Limit	Units	MDL	A10	A11	A12
Soluble Lead (Pb)	90	mg/kg	5	ND	ND	ND
Soluble Antimony (Sb)	60	mg/kg	5	ND	ND	ND
Soluble Arsenic (As)	25	mg/kg	2.5	ND	ND	ND
Soluble Barium (Ba)	1000	mg/kg	10	ND	ND	ND
Soluble Cadmium (Cd)	75	mg/kg	5	ND	ND	ND
Soluble Chromium(Cr)	60	mg/kg	5	ND	ND	ND
Soluble Mercury (Hg)	60	mg/kg	5	ND	ND	ND
Soluble Selenium (Se)	500	mg/kg	10	ND	ND	ND
Conclusion				Pass	Pass	Pass

Test Item(s)	Limit	Units	MDL	A13	A14	A15
Soluble Lead (Pb)	90	mg/kg	5	ND	ND	ND
Soluble Antimony (Sb)	60	mg/kg	5	ND	ND	ND
Soluble Arsenic (As)	25	mg/kg	2.5	ND	ND	ND
Soluble Barium (Ba)	1000	mg/kg	10	ND	ND	ND
Soluble Cadmium (Cd)	75	mg/kg	5	ND	ND	ND
Soluble Chromium(Cr)	60	mg/kg	5	ND	ND	ND
Soluble Mercury (Hg)	60	mg/kg	5	ND	ND	ND
Soluble Selenium (Se)	500	mg/kg	10	ND	ND	ND
Conclusion				Pass	Pass	Pass



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Test Item(s)	Limit	Units	MDL	A16	A17	A18
Soluble Lead (Pb)	90	mg/kg	5	ND	ND	ND
Soluble Antimony (Sb)	60	mg/kg	5	ND	ND	ND
Soluble Arsenic (As)	25	mg/kg	2.5	ND	ND	ND
Soluble Barium (Ba)	1000	mg/kg	10	ND	ND	ND
Soluble Cadmium (Cd)	75	mg/kg	5	ND	ND	ND
Soluble Chromium(Cr)	60	mg/kg	5	ND	ND	ND
Soluble Mercury (Hg)	60	mg/kg	5	ND	ND	ND
Soluble Selenium (Se)	500	mg/kg	10	ND	ND	ND
Conclusion				Pass	Pass	Pass

Test Item(s)	Limit	Units	MDL	A19	A20
Soluble Lead (Pb)	90	mg/kg	5	ND	ND
Soluble Antimony (Sb)	60	mg/kg	5	ND	ND
Soluble Arsenic (As)	25	mg/kg	2.5	ND	ND
Soluble Barium (Ba)	1000	mg/kg	10	ND	ND
Soluble Cadmium (Cd)	75	mg/kg	5	ND	ND
Soluble Chromium(Cr)	60	mg/kg	5	ND	ND
Soluble Mercury (Hg)	60	mg/kg	5	ND	ND
Soluble Selenium (Se)	500	mg/kg	10	ND	ND
Conclusion				Pass	Pass

Notes:

- (1) Results shown are of the adjusted analytical results.

Unless otherwise stated, the decision rule for conformity reporting is based on Binary Statement for Simple Acceptance Rule ($w=0$) stated in ILAC-G8:09/2019.



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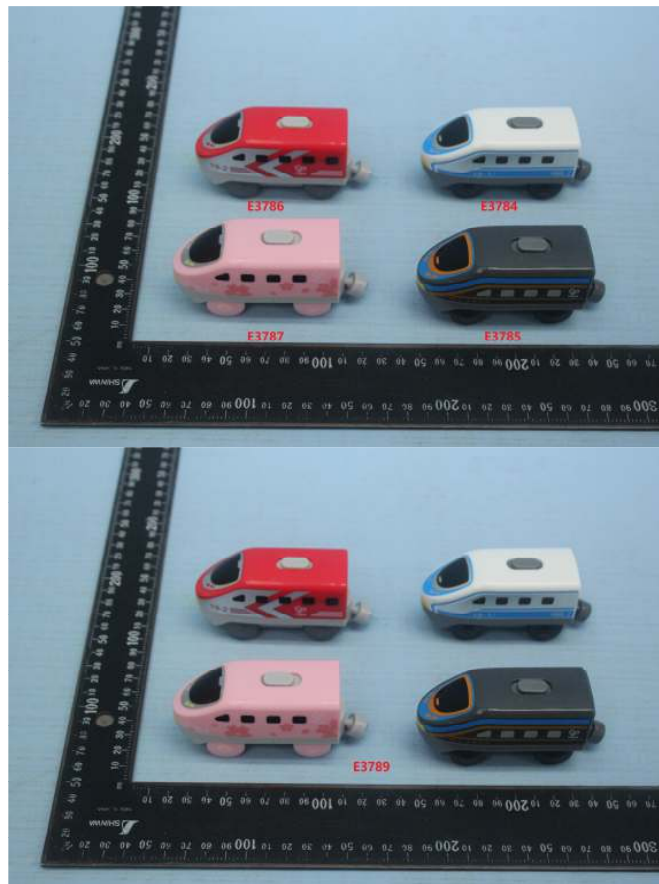
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