



**Test Report**

No.: SHHL2106030786TY

Date: JUL 01, 2021

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

PROPELLER ENGINE/  
COGWHEEL TRAIN/  
STEAM-ERA FREIGHT TRAIN/  
DIESEL FREIGHT TRAIN/

Sample Description : STEAM-ERA PASSENGER TRAIN

Sample Quantity : 30 PCS

Style / Item No. : E3750/ E3751/ E3717/ E3718/ E3719

Country of Origin : CHINA

Country of Destination : GLOBAL

Labeled Age Grading : 3+

Requested Age Grading : 18M+

Client Reference Information : E3750A/ E3751A/ E3717A/ E3718A/ E3719A  
\*\*\*\*\*

Age Group Assessed as Per Age Guideline : 18+MONTHS

Age Group Applied in Testing : 18+MONTHS

Sample Receiving Date : JUN 16, 2021

Further Information Date : JUN 30, 2021

Testing Period : JUN 16, 2021 TO JUL 01, 2021

<u>Test Requested</u>	<u>Result</u>
ASTM F963-17 Standard Consumer Safety Specification for Toy Safety	<u>Pass</u>
Physical and mechanical tests consisting US CPSC 16 CFR 1500.48, US CPSC 16 CFR 1500.49 and US CPSC 16 CFR 1501	<u>Pass</u>
US CPSC 16 CFR 1500.19 – Misbranded toys and other articles intended for use by children	<u>N/A</u>
US CPSC 16 CFR 1500.44 – Method for determining extremely flammable and flammable solids	<u>Pass</u>
Tracking label per Consumer Product Safety Improvement Act (CPSIA) of 2008 section 103 tracking labels for children’s products.	<u>Pass</u>
Lead (Pb)	<u>Pass</u>



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

Pass

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

Pass

\*\*\*\*\* FOR FURTHER DETAILS, PLEASE REFER TO THE FOLLOWING PAGE(S) \*\*\*\*\*

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

*Jessie Zhou*



Jessie Zhou  
Authorized Signatory



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

\*\* Visual Examination



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Detail of test result:

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

Sample  
TRAIN SETS

Burning Rate (inch/sec)  
0.01

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.

**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 1500.53b)	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**

AS SPECIFIED IN US CPSC 16 CFR 1500.19 – MISBRANDED TOYS AND OTHER ARTICLES INTENDED FOR USE BY CHILDREN

Appropriate warning according to 16 CFR 1500.19 was found on the principle display panel of the product’s packaging.....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

Sample  
TRAIN SETSBurning Rate (inch/sec)  
0.01

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.

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:

E3750: NBCN. 06/2021. Hape  
E3751: P1724200737 NBCN 0717 Hape  
E3717: P2022402702 NBCN 01/2021 Hape  
E3719: P2122400013. NBCN 03/2021. Hape  
E3718: P2122400012. NBCN 03/2021. Hape

- Tracking label found on the product:

E3750: NBCN. 06/2021. Hape  
E3751: P1724200737 NBCN 0717 Hape  
E3717: P2022402702 NBCN 01/2021 Hape  
E3719: P2122400013. NBCN 03/2021. Hape  
E3718: P2122400012. NBCN 03/2021. Hape

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 Part Description :

Specimen No.	SGS Sample ID	Description
SN1	SHA21-129084.001	Natural color wood
SN2	SHA21-129084.002	Colorful coating
SN3	SHA21-129084.003	Grey ABS
SN4	SHA21-129084.004	Black PA
SN5	SHA21-129084.005	Black PE
SN6	SHA21-129084.006	Grey PP
SN7	SHA21-129084.007	Golden plating with black plastic
SN8	SHA21-129084.008	Silvery plating with black plastic
SN9	SHA21-129084.009	Black plastic body
SN10	SHA21-129084.010	Red plastic body
SN11	SHA21-129084.011	Silvery metal cover(magnet)
SN12	SHA21-129084.012	Silvery metal wheel

Remarks :

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

**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.

Test Item(s)	Limit	Unit	MDL	011	012
Total Lead (Pb)	100	mg/kg	20	ND	ND

**Lead (Pb)**

Test Method : With reference to US EPA Method 3050B:1996, analysis was performed by ICP-OES.

Test Item(s)	Limit	Unit	MDL	011	012
Lead (Pb)	40	mg/kg	2	ND	ND
<b>Conclusion</b>				<b>PASS</b>	<b>PASS</b>



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Notes :

The maximum permissible limit is quoted from the client requirement.

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

Test Method : With reference to CPSC-CH-E1002-08.3. Analysis was performed by AAS.

<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>003</u>	<u>004</u>	<u>005</u>
Total Lead (Pb)	100	mg/kg	20	ND	ND	ND

<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>006</u>	<u>007</u>	<u>008</u>
Total Lead (Pb)	100	mg/kg	20	ND	ND	ND

<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>009</u>	<u>010</u>
Total Lead (Pb)	100	mg/kg	20	ND	ND

**Lead (Pb)**

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

<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>002</u>	<u>003</u>	<u>004</u>
Lead (Pb)	40	mg/kg	2	ND	ND	ND
<b>Conclusion</b>				<b>PASS</b>	<b>PASS</b>	<b>PASS</b>

<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>005</u>	<u>006</u>	<u>007</u>
Lead (Pb)	40	mg/kg	2	ND	ND	ND
<b>Conclusion</b>				<b>PASS</b>	<b>PASS</b>	<b>PASS</b>

<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>008</u>	<u>009</u>	<u>010</u>
Lead (Pb)	40	mg/kg	2	ND	ND	ND
<b>Conclusion</b>				<b>PASS</b>	<b>PASS</b>	<b>PASS</b>

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**



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

Test Item(s)	Limit	Unit	MDL	002
Total Lead (Pb)	90	mg/kg	20	ND

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

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

Test Item(s)	Limit	Unit	MDL	001	002	003
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

Test Item(s)	Limit	Unit	MDL	004	005	006
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

Test Item(s)	Limit	Unit	MDL	004	005	006
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

Test Item(s)	Limit	Unit	MDL	007	008	009
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



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Soluble Mercury (Hg)	60	mg/kg	5	ND	ND	ND
Soluble Selenium (Se)	500	mg/kg	10	ND	ND	ND

<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>010</u>
Soluble Lead (Pb)	90	mg/kg	5	ND
Soluble Antimony (Sb)	60	mg/kg	5	ND
Soluble Arsenic (As)	25	mg/kg	2.5	ND
Soluble Barium (Ba)	1000	mg/kg	10	ND
Soluble Cadmium (Cd)	75	mg/kg	5	ND
Soluble Chromium (Cr)	60	mg/kg	5	ND
Soluble Mercury (Hg)	60	mg/kg	5	ND
Soluble Selenium (Se)	500	mg/kg	10	ND

Notes :

- (1) Results shown are of the adjusted analytical results.
- (2) Mass of trace amount of sample 003 is 50.4mg, sample 005 is 39.4mg, sample 008 is 78.3mg.
- (3) As received, the test portion of samples 002 from one whole sample are less than 10mg, therefore such components were not tested for certain migration elements, as specified in ASTM F963-17 Clause 8.3.3.6 (2) – Selection of Test Portions

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

Test Method : CPSC Test Method: CPSC-CH-E1003-09.1 'Standard Operating Procedure for Determining Lead (Pb) in Paint and Other Similar Surface Coatings'

<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>002</u>
Lead (Pb)	0.009	%	0.002	ND

**Conclusion** **PASS**

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

Test Method : CPSC Test Method: CPSC-CH-E1002-08.3 'Standard Operation Procedure for Determining Total Lead (Pb) in Non-Metal Children Product'

<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>003</u>	<u>004</u>	<u>005</u>
Lead (Pb)	0.01	%	0.002	ND	ND	ND

**Conclusion** **PASS PASS PASS**



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<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>006</u>	<u>007</u>	<u>008</u>
Lead (Pb)	0.01	%	0.002	ND	ND	ND
<b>Conclusion</b>				<b>PASS</b>	<b>PASS</b>	<b>PASS</b>

<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>009</u>	<u>010</u>
Lead (Pb)	0.01	%	0.002	ND	ND
<b>Conclusion</b>				<b>PASS</b>	<b>PASS</b>

Notes :

Limit applies to a children's product manufactured after 14 August 2011 (Public Law 112-28 (HR 2715, 112th Congress) amending CPSIA)

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

Test Method : CPSC Test Method: CPSC-CH-E1001-08.3 `Standard Operating Procedure for Determining Total Lead (Pb) in Children`s Metal Products (Including Children`s Metal Jewelry)`.

<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>011</u>
Lead (Pb)	0.01	%	0.002	ND
<b>Conclusion</b>				<b>PASS</b>

<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>012</u>
Lead (Pb)	0.01	%	0.002	ND
<b>Conclusion</b>				<b>PASS</b>

Notes :

Limit applies to a children's product manufactured after 14 August 2011 (Public Law 112-28 (HR 2715, 112th Congress) amending CPSIA)

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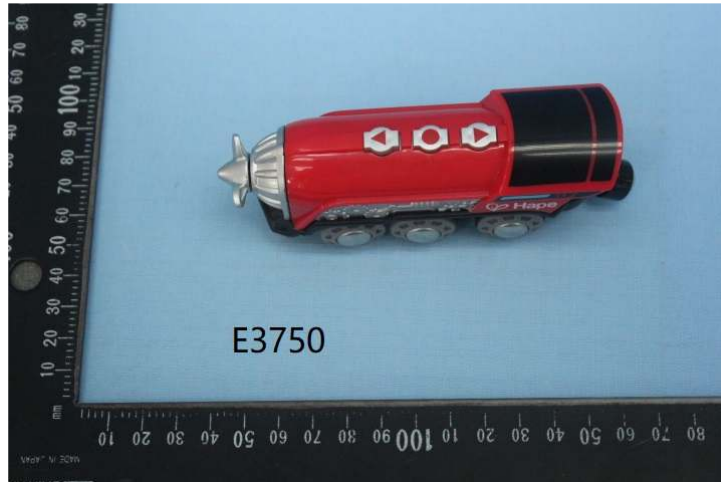
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