



Test Report

No.: SHHL2106030782TY

Date: JUN 30, 2021

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

LIGHT AND SOUND TUNNEL/
MIGHTY MOUNTAIN MINE/

Sample Description : LARGE BOOM CRANE

Sample Quantity : 15 PCS

Style / Item No. : E3739/ E3753/ E3715

Country of Origin : CHINA

Country of Destination : GLOBAL

Labeled Age Grading : 3+

Requested Age Grading : 3Y+

Client Reference Information : E3739A/ E3753A/ E3715A

Age Group Assessed as Per Age Guideline : 3+ YEARS

Age Group Applied in Testing : 3+ YEARS

Sample Receiving Date : JUN 16, 2021

Further Information Date : JUN 30, 2021

Testing Period : JUN 16, 2021 TO JUN 30, 2021

<u>Test Requested</u>	<u>Result</u>
ASTM F963-17 Standard Consumer Safety Specification for Toy Safety(As per client's request, exclude Clause 4.3.6.)	<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>Not Applicable</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>



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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>
4.3.6	Cosmetic, Liquids, Pastes, Putties, Gels, Powders and Item of Avian Feather Origin	<u>Not Conducted</u>
4.5	Sound-Producing Toys	<u>Pass</u>
4.6.3	Labelling Requirements (Remark: The toy does not contain as-received small part.)	<u>N/A (See Remark)</u>
4.7	Accessible Edges	<u>Pass</u>
4.9	Accessible Points	<u>Pass</u>
4.11	Nails and Fasteners	<u>Pass</u>
4.12	Plastic Film	<u>Pass</u>
4.13.2	Hinge-Line Clearance (Remark: Not applicable because of the weight of part link with hinge is less than 0.5lb.)	<u>N/A (See Remark)</u>
4.17	Wheels, Tires, and Axles	<u>Pass</u>
4.18	Holes, Clearance & Accessibility of Mechanisms	<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>



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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>
8.10	Compression Test	<u>Pass</u>

N/A = Not Applicable

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>
Traffic Set	0.1*

*Burning rate has been rounded to the nearest one tenth of an inch per second.

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.



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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	3	Pass	Pass	N/A
Impact test (16 CFR 1500.53b)	3	Pass	Pass	N/A
Bite test (16 CFR 1500.53c)	0	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)	3	Pass	Pass	N/A
Tension test (16 CFR 1500.53f)	3	Pass	Pass	N/A
Compression test (16 CFR 1500.53g)	3	Pass	Pass	N/A

N/A = Not Applicable

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

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>
Traffic Set	0.1*

*Burning rate has been rounded to the nearest one tenth of an inch per second.

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.



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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:

E3715: P2122400641 NBCN, 05/2021, HAPE.

E3739: P2022402521 NBCN, 12/2020, HAPE.

E3753: P2122400565 NBCN, 05/2021, HAPE.

- Tracking label found on the product:

E3715: P2122400641 NBCN, 05/2021, HAPE.

E3739: P2022402521 NBCN, 12/2020, HAPE.

E3753: P2122400565 NBCN, 05/2021, 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 Results :

Test Part Description :

Specimen No.	SGS Sample ID	Description
SN1	SHA21-129253.001	Natural color wood
SN2	SHA21-129253.002	Natural color MDF
SN3	SHA21-129253.003	Colorful coating
SN4	SHA21-129253.004	Grey ABS body
SN5	SHA21-129253.005	Dk.Grey ABS
SN6	SHA21-129253.006	Black POM
SN7	SHA21-129253.007	Red ABS
SN8	SHA21-129253.008	Green ABS
SN9	SHA21-129253.009	Orange ABS body
SN10	SHA21-129253.010	Black PP wheel
SN11	SHA21-129253.011	Red PP
SN12	SHA21-129253.012	Black ABS
SN13	SHA21-129253.013	Black PE
SN14	SHA21-129253.014	White nylon rope
SN15	SHA21-129253.015	Dk.Blue ABS
SN16	SHA21-129253.016	Dk.Brown ABS
SN17	SHA21-129253.017	Grey PP
SN18	SHA21-129253.018	Black HIPS
SN19	SHA21-129253.019	Grey rubber
SN20	SHA21-129253.020	Silvery metal magnet
SN21	SHA21-129253.021	Silvery metal wheel

Remarks :

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



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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.

<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>020</u>	<u>021</u>
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.

<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>020</u>	<u>021</u>
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 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>004</u>	<u>005</u>	<u>009</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>010</u>	<u>011</u>	<u>012</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>013</u>	<u>015</u>	<u>016</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>017</u>	<u>018</u>	<u>019</u>
Total Lead (Pb)	100	mg/kg	20	ND	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>003</u>	<u>004</u>	<u>005</u>
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Lead (Pb)	40	mg/kg	2	ND	ND	ND
Conclusion				PASS	PASS	PASS

<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>009</u>	<u>010</u>	<u>011</u>
Lead (Pb)	40	mg/kg	2	ND	ND	ND
Conclusion				PASS	PASS	PASS

<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>012</u>	<u>013</u>	<u>015</u>
Lead (Pb)	40	mg/kg	2	ND	ND	ND
Conclusion				PASS	PASS	PASS

<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>016</u>	<u>017</u>	<u>018</u>
Lead (Pb)	40	mg/kg	2	ND	ND	ND
Conclusion				PASS	PASS	PASS

<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>019</u>		
Lead (Pb)	40	mg/kg	2	ND		
Conclusion				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.

<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>003</u>
Total Lead (Pb)	90	mg/kg	20	ND



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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.

<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>001</u>	<u>002</u>	<u>003</u>
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	-

<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>004</u>	<u>005</u>	<u>006</u>
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

<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>007</u>	<u>008</u>	<u>009</u>
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

<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>010</u>	<u>011</u>	<u>012</u>
Soluble Lead (Pb)	90	mg/kg	5	ND	ND	ND
Soluble Antimony (Sb)	60	mg/kg	5	ND	ND	ND



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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

Test Item(s)	Limit	Unit	MDL	013	014	015
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

Test Item(s)	Limit	Unit	MDL	016	017	018
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

Test Item(s)	Limit	Unit	MDL	019
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

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- (1) Results shown are of the adjusted analytical results
- (2) Mass of trace amount of sample 006 is 35.3mg, sample 007 is 38.9mg, sample 008 is 51.8mg, sample 013 is 54.4mg, sample 014 is 53.7mg, sample 017 is 90.6mg.
- (3) As received, the test portion of samples 003 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>003</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>004</u>	<u>005</u>	<u>009</u>
Lead (Pb)	0.01	%	0.002	ND	ND	ND
Conclusion				PASS	PASS	PASS

<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>010</u>	<u>011</u>	<u>012</u>
Lead (Pb)	0.01	%	0.002	ND	ND	ND
Conclusion				PASS	PASS	PASS

<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>013</u>	<u>015</u>	<u>016</u>
Lead (Pb)	0.01	%	0.002	ND	ND	ND
Conclusion				PASS	PASS	PASS

<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>017</u>	<u>018</u>	<u>019</u>
Lead (Pb)	0.01	%	0.002	ND	ND	ND
Conclusion				PASS	PASS	PASS

Notes :

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



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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)`.

Test Item(s)	Limit	Unit	MDL	Q20
Lead (Pb)	0.01	%	0.002	ND
Conclusion				PASS

Test Item(s)	Limit	Unit	MDL	Q21
Lead (Pb)	0.01	%	0.002	ND
Conclusion				PASS

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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