

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

RACE TRACK STATION/ RACE CAR TRANSPORTER/ FIRE
 TRUCK WITH SIREN/ POLICE CAR WITH SIREN/

Sample Description : EMERGENCY SERVICE HQ
 Sample Quantity : 25 SETS
 Style / Item No. : E3734/ E3735/ E3737/ E3738/ E3736
 Country of Origin : CHINA
 Country of Destination : GLOBAL
 Labeled Age Grading : 3+
 Requested Age Grading : 3Y+
 Client reference information : E3734A/ E3735A/ E3737A/ E3738A/ E3736A
 Asin No : NA/ B07PK3KYHD/ NA/ B07 PHZT5JW/ NA

 Source of Sample : SENT BY CLIENT.
 Age Group Assessed as Per Age Guideline : 3+ YEARS
 Age Group Applied in Testing : 3+ YEARS
 Sample Receiving Date : AUG 11, 2022
 Further Information Date : SEP 06, 2022
 Testing Period : AUG 11, 2022 TO SEP 07, 2022

Test Requested	Result
ASTM F963-17 Standard Consumer Safety Specification for Toy Safety	Pass
Lead (Pb)	Pass
Part 1303, Title 16, Code of Federal Regulations, Chapter II – Consumer Products Safety Commission of U.S.A. requirement-Lead	Pass
CPSIA section 101(a)(2)-Lead in accessible substrate materials (Metal)	Pass
CPSIA section 101(a)(2)-Lead in accessible substrate materials (Non-Metal)	Pass
CPSIA section 101(f)-Lead in paint/similar surface coating material	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	Pass
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



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Test Report

No.: SHHL2208034492TY

Date: SEP 07, 2022

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

scan to see the report



SHHL2208034492TY

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 **	<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>N/A</u>
4.6.2	Mouth-Actuated Toys	<u>N/A</u>
4.6.3	Labelling Requirements	<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>
4.12	Plastic Film	<u>Pass</u>
4.13.2	Hinge-Line Clearance	<u>N/A</u>
	(Remark: Not applicable because of the weight of part link with hinge is less than 0.5lb.)	
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>
5.3	Safety Labeling Requirements	<u>Pass</u>
5.11	Small Objects, Small Balls, Marbles, and Balloons	<u>Pass</u>
5.16	Promotional Materials	<u>Pass</u>



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

N/A = Not Applicable

** Visual Examination

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>
Car sets	0.03

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.

Test Part Description :

Specimen No.	SGS Sample ID	Description
SN1	SHA22-124085.001	Natural colored solid wood
SN2	SHA22-124085.002	Natural colored plywood
SN3	SHA22-124085.003	Natural colored MDF
SN4	SHA22-124085.004	White coating(On wood)
SN5	SHA22-124085.005	Black coating(On wood)
SN6	SHA22-124085.006	Red coating(On wood)
SN7	SHA22-124085.007	Orange coating(On wood)
SN8	SHA22-124085.008	Yellow coating(On wood)
SN9	SHA22-124085.009	Lt.grey coating(On wood)
SN10	SHA22-124085.010	Dk.grey coating(On wood)
SN11	SHA22-124085.011	Blue coating(On wood&plastic)
SN12	SHA22-124085.012	Dk.blue coating(On wood)
SN13	SHA22-124085.013	Green coating(On wood)
SN14	SHA22-124085.014	Brown coating(On wood)



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SN15	SHA22-124085.015	Colorful coating(Transfer film)
SN16	SHA22-124085.016	Transparent blue ABS car roof& button
SN17	SHA22-124085.017	Transparent red ABS car roof& button
SN18	SHA22-124085.018	Black PP wheel
SN19	SHA22-124085.019	Grey PP wheel
SN20	SHA22-124085.020	Grey ABS roof
SN21	SHA22-124085.021	Red HDPE fire station door
SN22	SHA22-124085.022	Red PA fire station sliding pole&base&cover
SN23	SHA22-124085.023	Lt.grey HDPE police office door
SN24	SHA22-124085.024	Blue ABS stairs&police car
SN25	SHA22-124085.025	Translucent black ABS Truck window
SN26	SHA22-124085.026	Black PE ring(On magnet head)
SN27	SHA22-124085.027	White ABS stair
SN28	SHA22-124085.028	Red ABS fire car
SN29	SHA22-124085.029	Yellow ABS radar(On fire car)
SN30	SHA22-124085.030	Orange plastic on rope head (On fire car)
SN31	SHA22-124085.031	White rope(On fire car)
SN32	SHA22-124085.032	Lt.orange ABS transporter
SN33	SHA22-124085.033	Grey PE pier
SN34	SHA22-124085.034	Red PE bridge
SN35	SHA22-124085.035	Blue Green PE track
SN36	SHA22-124085.036	Dk.blue ABS Train
SN37	SHA22-124085.037	Black ABS intercom
SN38	SHA22-124085.038	Cream PVC figurine head
SN39	SHA22-124085.039	Cream coating(On figurine hand)
SN40	SHA22-124085.040	Red elastic(On station)
SN41	SHA22-124085.041	Dk.blue PVC arms,hands
SN42	SHA22-124085.042	Dk.blue ABS body
SN43	SHA22-124085.043	Orange PVC hands
SN44	SHA22-124085.044	Orange ABS body
SN45	SHA22-124085.045	Grey PA transporter brack
SN46	SHA22-124085.046	Silvery metal magnet
SN47	SHA22-124085.047	Silvery metal wheel
SN48	SHA22-124085.048	Silvery metal screw
SN49	SHA22-124085.049	Silvery metal slide



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Remarks :

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

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>046</u>	<u>047</u>	<u>048</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>049</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 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>046</u>	<u>047</u>	<u>048</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>049</u>
Total Lead (Pb)	100	mg/kg	20	ND



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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-E1002-08.3. Analysis was performed by AAS.

<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>016</u>	<u>017</u>	<u>018</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>019</u>	<u>020</u>	<u>021</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>022</u>	<u>023</u>	<u>024</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>025</u>	<u>026</u>	<u>027</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>028</u>	<u>029</u>	<u>030</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>031</u>	<u>032</u>	<u>033</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>034</u>	<u>035</u>	<u>036</u>
Total Lead (Pb)	100	mg/kg	20	ND	ND	ND



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<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>037</u>	<u>038</u>	<u>040</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>041</u>	<u>042</u>	<u>043</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>044</u>	<u>045</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>004</u>	<u>005</u>	<u>006</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>007</u>	<u>008</u>	<u>009</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>010</u>	<u>011</u>	<u>012</u>
Lead (Pb)	40	mg/kg	2	ND	ND	4
Conclusion				PASS	PASS	PASS

<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>013</u>	<u>014</u>	<u>015</u>
Lead (Pb)	40	mg/kg	2	ND	ND	ND
Conclusion				PASS	PASS	PASS



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Test Item(s)	Limit	Unit	MDL	016	017	018
Lead (Pb)	40	mg/kg	2	ND	ND	3
Conclusion				PASS	PASS	PASS

Test Item(s)	Limit	Unit	MDL	019	020	021
Lead (Pb)	40	mg/kg	2	ND	ND	ND
Conclusion				PASS	PASS	PASS

Test Item(s)	Limit	Unit	MDL	022	023	024
Lead (Pb)	40	mg/kg	2	ND	ND	ND
Conclusion				PASS	PASS	PASS

Test Item(s)	Limit	Unit	MDL	025	026	027
Lead (Pb)	40	mg/kg	2	ND	ND	ND
Conclusion				PASS	PASS	PASS

Test Item(s)	Limit	Unit	MDL	028	029	030
Lead (Pb)	40	mg/kg	2	ND	ND	ND
Conclusion				PASS	PASS	PASS

Test Item(s)	Limit	Unit	MDL	031	032	033
Lead (Pb)	40	mg/kg	2	ND	ND	ND
Conclusion				PASS	PASS	PASS

Test Item(s)	Limit	Unit	MDL	034	035	036
Lead (Pb)	40	mg/kg	2	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>037</u>	<u>038</u>	<u>039</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>040</u>	<u>041</u>	<u>042</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>043</u>	<u>044</u>	<u>045</u>
Lead (Pb)	40	mg/kg	2	ND	ND	ND
Conclusion				PASS	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.

<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>004</u>	<u>005</u>	<u>006</u>
Total Lead (Pb)	90	mg/kg	20	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>
Total Lead (Pb)	90	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)	90	mg/kg	20	ND	ND	ND

<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>013</u>	<u>014</u>	<u>015</u>
Total Lead (Pb)	90	mg/kg	20	ND	ND	ND



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<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>039</u>
Total Lead (Pb)	90	mg/kg	20	ND

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

Test Method : With reference to CPSC Test Method: 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>004</u>	<u>005</u>	<u>006</u>
Lead (Pb)	0.009	%	0.002	ND	ND	ND
Conclusion				PASS	PASS	PASS

<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>007</u>	<u>008</u>	<u>009</u>
Lead (Pb)	0.009	%	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)	0.009	%	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>014</u>	<u>015</u>
Lead (Pb)	0.009	%	0.002	ND	ND	ND
Conclusion				PASS	PASS	PASS

<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>039</u>
Lead (Pb)	0.009	%	0.002	ND
Conclusion				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/ 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	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>004</u>	<u>005</u>	<u>006</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	-	-

<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	-
Soluble Antimony (Sb)	60	mg/kg	5	-	ND	-
Soluble Arsenic (As)	25	mg/kg	2.5	-	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 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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Test Item(s)	Limit	Unit	MDL	010	011	012
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	-	-	-

Test Item(s)	Limit	Unit	MDL	013	014	015
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	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	020	021
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>022</u>	<u>023</u>	<u>024</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>025</u>	<u>026</u>	<u>027</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>028</u>	<u>029</u>	<u>030</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>031</u>	<u>032</u>	<u>033</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



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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>034</u>	<u>035</u>	<u>036</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>037</u>	<u>038</u>	<u>039</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>040</u>	<u>041</u>	<u>042</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



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<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>043</u>	<u>044</u>	<u>045</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

Notes :

- (1) Results shown are of the adjusted analytical results
- (2) Mass of trace amount of sample 004 is 26.6mg, sample 008 is 46.9mg, sample 014 is 32.1mg, sample 015 is 55.5mg, sample 019 is 99.6mg, sample 026 is 61.4mg, sample 031 is 20.3mg, sample 037 is 69.7mg, sample 041 is 92.5mg, sample 042 is 98.6mg, sample 043 is 96.0mg, sample 044 is 89.0mg.
- (3) As received, the test portion of samples 005, 006, 007, 009, 010, 011, 012, 013, 039 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(a)(2)-Lead in accessible substrate materials (Metal)

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

<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>046</u>
Lead (Pb)	0.01	%	0.002	ND
Conclusion				PASS

<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>047</u>
Lead (Pb)	0.01	%	0.002	ND
Conclusion				PASS

<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>048</u>
Lead (Pb)	0.01	%	0.002	ND
Conclusion				PASS



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<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>049</u>
Lead (Pb)	0.01	%	0.002	ND
Conclusion				PASS

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

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

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

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

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

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

<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>020</u>
Lead (Pb)	0.01	%	0.002	ND
Conclusion				PASS

<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>021</u>
Lead (Pb)	0.01	%	0.002	ND
Conclusion				PASS

<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>022</u>
Lead (Pb)	0.01	%	0.002	ND
Conclusion				PASS



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<u>Test Item(s)</u> Lead (Pb) Conclusion	<u>Limit</u> 0.01 PASS	<u>Unit</u> % PASS	<u>MDL</u> 0.002 PASS	<u>023</u> ND PASS
<u>Test Item(s)</u> Lead (Pb) Conclusion	<u>Limit</u> 0.01 PASS	<u>Unit</u> % PASS	<u>MDL</u> 0.002 PASS	<u>024</u> ND PASS
<u>Test Item(s)</u> Lead (Pb) Conclusion	<u>Limit</u> 0.01 PASS	<u>Unit</u> % PASS	<u>MDL</u> 0.002 PASS	<u>025</u> ND PASS
<u>Test Item(s)</u> Lead (Pb) Conclusion	<u>Limit</u> 0.01 PASS	<u>Unit</u> % PASS	<u>MDL</u> 0.002 PASS	<u>026</u> ND PASS
<u>Test Item(s)</u> Lead (Pb) Conclusion	<u>Limit</u> 0.01 PASS	<u>Unit</u> % PASS	<u>MDL</u> 0.002 PASS	<u>027</u> ND PASS
<u>Test Item(s)</u> Lead (Pb) Conclusion	<u>Limit</u> 0.01 PASS	<u>Unit</u> % PASS	<u>MDL</u> 0.002 PASS	<u>028</u> ND PASS
<u>Test Item(s)</u> Lead (Pb) Conclusion	<u>Limit</u> 0.01 PASS	<u>Unit</u> % PASS	<u>MDL</u> 0.002 PASS	<u>029</u> ND PASS
<u>Test Item(s)</u> Lead (Pb) Conclusion	<u>Limit</u> 0.01 PASS	<u>Unit</u> % PASS	<u>MDL</u> 0.002 PASS	<u>030</u> ND PASS
<u>Test Item(s)</u> Lead (Pb) Conclusion	<u>Limit</u> 0.01 PASS	<u>Unit</u> % PASS	<u>MDL</u> 0.002 PASS	<u>031</u> ND PASS



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<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>032</u>
Lead (Pb)	0.01	%	0.002	ND
Conclusion				PASS
<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>033</u>
Lead (Pb)	0.01	%	0.002	ND
Conclusion				PASS
<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>034</u>
Lead (Pb)	0.01	%	0.002	ND
Conclusion				PASS
<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>035</u>
Lead (Pb)	0.01	%	0.002	ND
Conclusion				PASS
<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>036</u>
Lead (Pb)	0.01	%	0.002	ND
Conclusion				PASS
<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>037</u>
Lead (Pb)	0.01	%	0.002	ND
Conclusion				PASS
<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>038</u>
Lead (Pb)	0.01	%	0.002	ND
Conclusion				PASS
<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>040</u>
Lead (Pb)	0.01	%	0.002	ND
Conclusion				PASS
<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>041</u>
Lead (Pb)	0.01	%	0.002	ND
Conclusion				PASS



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<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>042</u>
Lead (Pb)	0.01	%	0.002	ND
Conclusion				PASS

<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>043</u>
Lead (Pb)	0.01	%	0.002	ND
Conclusion				PASS

<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>044</u>
Lead (Pb)	0.01	%	0.002	ND
Conclusion				PASS

<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>045</u>
Lead (Pb)	0.01	%	0.002	ND
Conclusion				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.

<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>004</u>
Lead (Pb)	0.009	%	0.002	ND
Conclusion				PASS

<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>005</u>
Lead (Pb)	0.009	%	0.002	ND
Conclusion				PASS

<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>006</u>
Lead (Pb)	0.009	%	0.002	ND
Conclusion				PASS

<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>007</u>
Lead (Pb)	0.009	%	0.002	ND
Conclusion				PASS



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<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>008</u>
Lead (Pb)	0.009	%	0.002	ND
Conclusion				PASS
<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>009</u>
Lead (Pb)	0.009	%	0.002	ND
Conclusion				PASS
<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>010</u>
Lead (Pb)	0.009	%	0.002	ND
Conclusion				PASS
<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>011</u>
Lead (Pb)	0.009	%	0.002	ND
Conclusion				PASS
<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>012</u>
Lead (Pb)	0.009	%	0.002	ND
Conclusion				PASS
<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>013</u>
Lead (Pb)	0.009	%	0.002	ND
Conclusion				PASS
<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>014</u>
Lead (Pb)	0.009	%	0.002	ND
Conclusion				PASS
<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>015</u>
Lead (Pb)	0.009	%	0.002	ND
Conclusion				PASS
<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>039</u>
Lead (Pb)	0.009	%	0.002	ND
Conclusion				PASS



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The test results 001, 002, 003, 004 are taken from report SHA22-075721.011, 013, 012, 010
 The test results 005, 012 are taken from report SHA22-017058.009, 007
 The test results 006, 008 are taken from report SHA22-084951.004, 001
 The test results 011, 013 are taken from report SHA22-020028.012, 010

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.

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	N/A
Impact test (16 CFR 1500.53b)	5	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)	5	Pass	Pass	N/A
Tension test (16 CFR 1500.53f)	5	Pass	Pass	N/A
Compression test (16 CFR 1500.53g)	5	Pass	Pass	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.



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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>
Car sets	0.03

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.

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: E3734A: P2122400639 NBCN 04/2021
 E3735A: P2222400657 NBCN 05/2022
 E3736A: P2222400097 NBCN 04/2022
 E3737A: P2222401352 NBCN 07/2022
 E3738A: P2222400984 NBCN 06/2022

- Tracking label found on the product: E3734A: P2122400639 NBCN 04/2021
 E3735A: P2222400657 NBCN 05/2022
 E3736A: P2222400097 NBCN 04/2022
 E3737A: P2222401352 NBCN 07/2022
 E3738A: P2222400984 NBCN 06/2022

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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Remark:

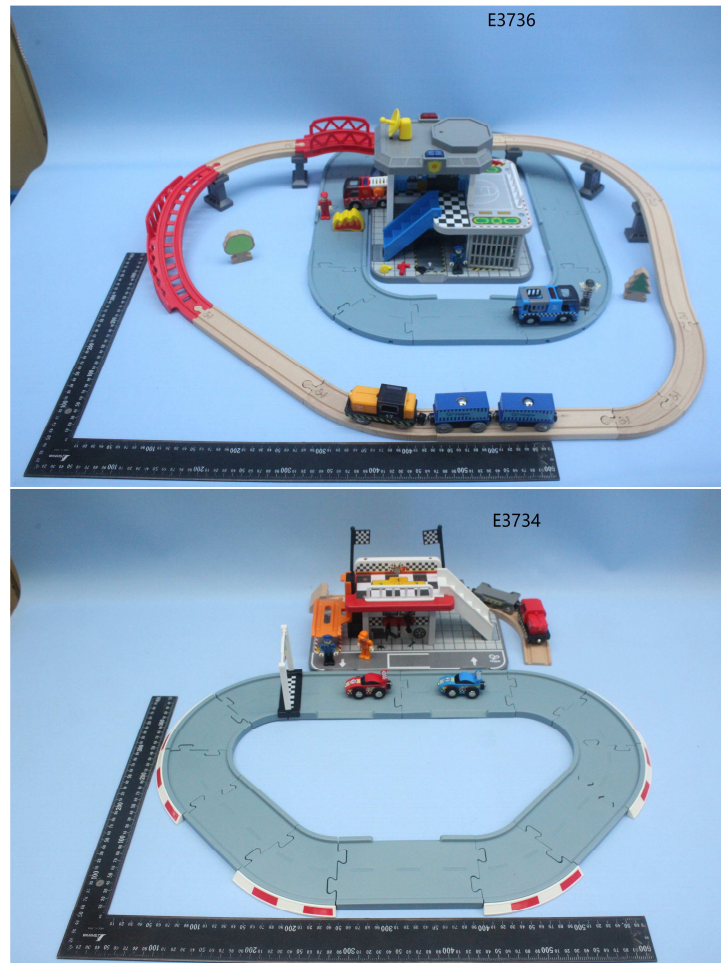
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2. The declaration of conformity is based on acceptance limits chosen based on simple acceptance ($w = 0, AL = TL$).

Statements of conformity are reported as:

Passed - The measured values were observed in tolerance at the points tested.

Failed - One or more measured values were observed out of tolerance at the points tested.

Sample Photo:



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