

Test Report

Number: GZHH00361926

Applicant: BBURAGO INTERNATIONAL LIMITED
UNIT 901-2, 9/F., EAST OCEAN CENTRE,
98 GRANVILLE ROAD, TSIMSHATSUI EAST,
KOWLOON, HONG KONG

Date: May 14, 2020

Attn: ICY HUANG

Sample Description:

Six (6) styles of submitted sample said to be :

No.	Item	Description	Color
1	18-31612	10cm New Holland T7.315	Blue
2	18-31632	10cm New Holland T7.315 with front loader	Blue
3	18-18788	Tree Forwarder	Green/Yellow
4	18-18789	Livestock Trailer	Brown/Metallic Grey
5	18-18790	Combination Trailer	Red/Yellow
6	18-18791	Tipping Trailer	Orange

Labelled Age Group : "Ages 3+"
Appropriate Age Grading for Testing : Over 3 years
Packaging Provided by Applicant : Yes
Country of Origin : China

Applicant's Ref. :
18-31610 10cm Farm Tractor
18-31630 10cm Farm Tractor w/front loader
18-60020 Farm + Construction Floor Display
18-31650 10cm Farm Tractor w/Trailer

Above sample information is submitted and/or identified by client

Tests conducted:

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

To be continued



Test Report

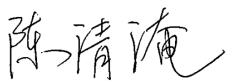
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Conclusion:

<u>Tested sample</u> Submitted sample(s)	<u>Standard</u>	<u>Result</u>
	EN71-1:2014+A1:2018 for mechanical and physical properties	Pass
	EN71-2:2011+A1:2014 Flammability test	Pass
Tested component(s) of submitted sample(s)	EN 71-3:2019 on migration of certain elements and (EU) 2019/1922 amending 2009/48/EC (applies from 20 May 2021) for Aluminium migration	Pass
	Cadmium content requirement in REACH regulation Annex XVII Item 23 (EC) No 1907/2006 and amendment No. 552/2009, 494/2011, 835/2012 and 2016/217	Pass
	Phthalates Content Requirement in Annex XVII Entry 51 & 52 of the REACH Regulation (EC) No 1907/2006 and Amendment (EC) No 552/2009 and (EU) 2018/2005. [(EU) 2018/2005 is applicable to products including toys and childcare articles placed on the market after 7 July 2020]	Pass
	<u>Test Item</u> Phthalates Content	See Test Conducted 6#
	<u>Standard</u> Polycyclic Aromatic Hydrocarbons (PAHs) Content Requirement In Annex XVII Item 50 of the REACH Regulation (EC) NO. 1907/2006 & Amendment No. 552/2009 and 1272/2013 with effect from 27 December 2015	Pass

: This test in the report is not included in the CNAS accreditation schedule for our laboratory.

Approved:




Albert Chen
Toys Lab Assistant Manager

Approved:



Bella Hu
Sr.Engineer



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Tests Conducted

1 Physical and Mechanical Tests

As per European Standard on Safety of toys EN71-1:2014+A1:2018

The submitted samples were undergone the following abuse tests:		
<u>Test</u>	<u>Clause</u>	<u>Parameter</u>
Drop test	8.5	850 mm x 5 times
Impact test	8.7	1 kg

<u>Clause</u>	<u>Testing Items</u>	<u>Assessment</u>
4	General requirements	
4.1	Material	P
4.2	Assembly	NA
4.3	Flexible plastic sheeting	NA
4.4	Toy bags	NA
4.5	Glass	NA
4.6	Expanding materials	NA
4.7	Edges	P
4.8	Points and metallic wires	P
4.9	Protruding parts	NA
4.10	Parts moving against each other	P
4.11	Mouth actuated toys and other toys intended to be put in the mouth	NA
4.12	Balloons	NA
4.13	Cords of toy kites and other flying toys	NA
4.14	Enclosures	NA
4.15	Toys intended to bear the mass of a child	NA
4.16	Heavy immobile toys	NA
4.17	Projectile toys	NA
4.18	Aquatic toys and inflatable toys	NA
4.19	Percussion caps specifically designed for use in toys and toys using percussion caps	NA
4.20	Acoustics	NA
4.21	Toys containing non-electrical heat source	NA
4.22	Small balls	NA
4.23	Magnets	NA
4.24	Yo-yo balls	NA
4.25	Toys attached to food	NA
4.26	Toy disguise costumes	NA
4.27	Flying toys	NA
5	Toys intended for children under 36 months	
5.1	General requirements	NA



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Clause	Testing Items	Assessment
5.2	Soft-filled toys and soft-filled parts of a toy	NA
5.3	Plastic sheeting	NA
5.4	Cords, chains and electrical cables in toys	NA
5.5	Liquid filled toys	NA
5.6	Speed limitation of electrically-driven ride-on toys	NA
5.7	Glass and porcelain	NA
5.8	Shape and size of certain toys	NA
5.9	Toys comprising monofilament fibres	NA
5.10	Small balls	NA
5.11	Play figures	NA
5.12	Hemispheric-shaped toys	NA
5.13	Suction cups	NA
5.14	Straps intended to be worn fully or partially around the neck	NA
5.15	Sledges with cords for pulling	NA
6	Packaging	NA
7	Warnings, markings and instructions for use	
7.1	General	P
7.2	Toys not intended for children under 36 months	P/#
7.3	Latex balloons	NA
7.4	Aquatic toys	NA
7.5	Functional toys	NA
7.6	Hazardous sharp functional edges and points	NA
7.7	Projectile toys	NA
7.8	Imitation protective masks and helmets	NA
7.9	Toy kites	NA
7.10	Roller skates, inlineskates and skateboards and certain other ride-on toys	NA
7.11	Toys intended to be attached to strung across a cradle, cot, or perambulator	NA
7.12	Liquid-filled teethingers	NA
7.13	Percussion caps specifically designed for use in toys	NA
7.14	Acoustics	NA
7.15	Toy bicycles	NA
7.16	Toys intended to bear the mass of a child	NA
7.17	Toys comprising monofilament fibres	NA
7.18	Toy scooters	NA
7.19	Rocking horses and similar toys	NA
7.20	Magnetic/electrical experimental sets	NA
7.21	Toys with electrical cables exceeding 300 mm in length	NA
7.22	Toys with cords or chains intended for children of 18 months and over but under 36 months	NA
7.23	Toys intended to be attached to a cradle, cot or perambulator	NA
7.24	Sledges with cords for pulling	NA
7.25	Flying toys	NA
7.26	Improvised projectiles	NA



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Remark: P = Pass NA = Not Applicable

= Age warning statement and indication of hazard was found on the packaging.

Remark: Additional information according to the Toy Safety Directives 2009/48/EC requirement. These information also appears as a note within the EN71 but are not standard requirements:

1. Marking

The manufacturer's and importer's name, registered trade name or registered trade mark, the address and the CE-marking shall be indicated on the toy or, where that is not possible, on its packaging or in a document accompany the toy. In addition, manufacturers shall ensure that their toys bear a type, batch, serial or model number or other element allowing their identification, or where the size or nature of the toy does not allow it, that the required information is provided on the packaging or in a document accompanying the toy.

- Manufacturer's name was on the packaging and toy.
- Manufacturer's address was on the packaging.
- Importer's name was on the packaging and toy.
- Importer's address was on the packaging.
- Product identification code was on the packaging.
- the CE-marking was on packaging and was in a correct format.

Date sample received : Apr 30, 2020
Testing period : Apr 30, 2020 to May 09, 2020

2 Flammability Test

As per European Standard on Safety of Toys EN71-2:2011+A1:2014

Clause	Testing Items	Assessment
4.1	General	P
4.2	Toys to be worn on the head	NA
4.3	Toy disguise costumes and toys intended to be worn by a child in play	NA
4.4	Toys intended to be entered by a child	NA
4.5	Soft filled toys	NA

Remark: P = Pass NA = Not Applicable

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3 19 Toxic Element Migration Test

(A) Test Result

As per EN 71-3:2019 and followed by Inductively Coupled Plasma Atomic Emission Spectrometry, Ion Chromatography with UV-VIS.

Category (III): Scraped-off toy material

Element	Result (mg/kg)				Reporting Limit (mg/kg)	Limit (mg/kg)
	Tested Component					
	(3)	(6)	(7)	(10)to(20)		
Aluminium (Al)	835	1366	3336	ND	300	70000 / 28130 [▲]
Antimony (Sb)	ND	ND	ND	ND	10	560
Arsenic (As)	ND	ND	ND	ND	10	47
Barium (Ba)	ND	ND	ND	ND	10	18750
Boron (B)	ND	ND	ND	ND	50	15000
Cadmium (Cd)	ND	ND	ND	ND	5	17
Chromium (III) (Cr III) ^{**}	ND	ND	ND	ND	10	460
Chromium (VI) (Cr VI) ^{**}	ND	ND	ND	ND	0.025	0.053
Cobalt (Co)	ND	ND	ND	ND	10	130
Copper (Cu)	ND	ND	ND	ND	10	7700
Lead (Pb)	ND	ND	ND	ND	10	23
Manganese (Mn)	ND	ND	ND	ND	10	15000
Mercury (Hg)	ND	ND	ND	ND	10	94
Nickel (Ni)	ND	ND	ND	ND	10	930
Selenium (Se)	ND	ND	ND	ND	10	460
Strontium (Sr)	ND	ND	ND	ND	100	56000
Tin (Sn)	ND	ND	ND	ND	2.5	180000
Organic tin ^{**}	ND	ND	ND	ND	5	12
Zinc (Zn)	8001	123	9899	ND	100	46000

Remark : mg/kg = milligram per kilogram
 ++ = Unless the test results were marked with "#" or "Δ", Chromium (III) & Chromium (VI) and Organic tin contents were not directly determined and were derived from migration results of total chromium and tin respectively.
 - Organic tin test result was expressed as tributyl tin.
 ND = Not detected (less than reporting limit)
 ▲ = The new Aluminium migration limit were quoted from Directive (EU) 2019/1922 amending Directive 2009/48/EC applicable from 20 May 2021.



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Tested component(s):

Sequence No.	Test Component No.	Test Component Description(s)
SN1	(1) @	Silver-grey coating on plastic (wheel of #18788, #18789, #18790, #18791).
SN2	(2) @	Yellow coating on plastic (hand of #18788, #18790).
SN3	(3)	Yellow coating on metal (base of hand of #18788, #18790).
SN4	(5) @	Black coating on plastic (window, rim of #31612, #31632).
SN5	(6)	Coatings (blue, red, silver color, grey) on plastic (cover of wheel, roof of #31612, #31632)(sample weight : 32.7mg).
SN6	(7)	Coatings (blue, black, white, silver color, orange, grey) on metal (cover of engine of #31612, #31632)(sample weight : 80.6mg).
SN7	(10)	Black 70 °PVC plastic (tire of #31612, #31632).
SN8	(11)	Black plastic (base, wheel of #18788, #18789, #18790, #18791).
SN9	(12)	Orange plastic (case of #18791).
SN10	(13)	Brown plastic (case of #18789).
SN11	(14)	Silver-grey plastic (binding of #18789).
SN12	(15)	Green plastic (deck of #18788).
SN13	(16)	Red plastic (case of #18790).
SN14	(17)	Black plastic excluding coatings (hand of #18788, #18790).
SN15	(18)	White plastic (rim of #31612, #31632).
SN16	(19)	Transparent plastic (window of #31612, #31632).
SN17	(20)	Black plastic (base, cover of wheel, roof, hand of #31612, #31632).

@: Since the sample weight of the component was less than 10 mg, soluble heavy metal analysis was not applicable.

(B) Categories of various toy materials

Category I: Dry, brittle, powder like or pliable

Solid toy material from which powder-like material is released during playing and semi-solid materials that may also leave residues on the hands during play. The material can be ingested. Contamination of the hands with the material may contribute to the oral exposure of the material. (e.g. the cores of colouring pencils, chalk, crayons, modelling clays and plaster).

Category II: Liquid or sticky

Fluid or viscous toy material, which can be ingested or to which dermal exposure may occur during playing. (e.g. liquid paints, finger paints, liquid ink in pens, glue sticks, slimes, bubble solution).

Category III: Scraped-off

Solid toy material with or without a coating, which can be ingested as a result of biting, tooth scraping, sucking or licking. (e.g. coatings, lacquers, plastics, paper, textiles, glass, ceramic, metallic, wooden, bone, leather and other materials).

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Tests Conducted

4 Cadmium (Cd) Content

With reference to test method IEC 62321-5:2013, acid digestion method was used and total Cadmium content was determined by Inductively Coupled Argon Plasma Spectrometry.

Element	Result (%)	Reporting Limit (%)
	Tested Component	
	(1/2/3), (5/6), (7), (9+21), (10+11+12), (13+14+15), (16+17+18), (19+20)	
Cadmium (Cd)	ND	0.0005

Limit:

Category	Limit (%)
Wet paint	0.01
Surface coating	0.1
Plastic	0.01
Metal parts of jewelry & hair accessories	0.01

ND = Not detected (less than reporting limit)

Tested Component(s):

Sequence No.	Test Component No.	Test Component Description(s)
SN1	(1)	Silver-grey coating on plastic (wheel of #18788, #18789, #18790, #18791).
SN2	(2)	Yellow coating on plastic (hand of #18788, #18790).
SN3	(3)	Yellow coating on metal (base of hand of #18788, #18790).
SN4	(5)	Black coating on plastic (window, rim of #31612, #31632).
SN5	(6)	Coatings (blue, red, silver color, grey) on plastic (cover of wheel, roof of #31612, #31632).
SN6	(7)	Coatings (blue, black, white, silver color, orange, grey) on metal (cover of engine of #31612, #31632).
SN7	(9)	Black plastic with grey coating (seat of #31612, #31632).
SN8	(10)	Black 70 °PVC plastic (tire of #31612, #31632).
SN9	(11)	Black plastic (base, wheel of #18788, #18789, #18790, #18791).
SN10	(12)	Orange plastic (case of #18791).
SN11	(13)	Brown plastic (case of #18789).
SN12	(14)	Silver-grey plastic (binding of #18789).
SN13	(15)	Green plastic (deck of #18788).
SN14	(16)	Red plastic (case of #18790).
SN15	(17)	Black plastic excluding coatings (hand of #18788, #18790).
SN16	(18)	White plastic (rim of #31612, #31632).
SN17	(19)	Transparent plastic (window of #31612, #31632).
SN18	(20)	Black plastic (base, cover of wheel, roof, hand of #31612, #31632).
SN19	(21)	Beige plastic (gear of #31612, #31632) (internal).



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The Cadmium content test of the tested components (1)to(3),(5),(6) were conducted in composite for the materials which sample size is not sufficient to carry out the test individually.

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Testing period: Apr 30, 2020 to May 09, 2020

5 Phthalate Content

With reference to ISO 8124-6:2018, and phthalate content was determined by Gas Chromatographic-Mass Spectrometric (GC-MS).

For 4 phthalates

Test Item	CAS No.	Result (%)	Reporting Limit (%)	Limit (%)
		Tested Component (21)		
Dibutyl phthalate (DBP)	84-74-2	ND	0.005	--
Di-(2-ethyl hexyl) phthalate (DEHP)	117-81-7	ND	0.005	--
Benzyl butyl phthalate (BBP)	85-68-7	ND	0.005	--
Diisobutyl phthalate (DIBP)	84-69-5	ND	0.005	--
Sum of DBP, DEHP, BBP and DIBP	--	ND	--	0.1

For 7 phthalates

Test Item	CAS No.	Result (%)	Reporting Limit (%)	Limit (%)
		Tested Component (4+8), (10), (11+12), (13+14+15), (16+17+18), (19+20)		
Dibutyl phthalate (DBP)	84-74-2	ND	0.005	--
Di-(2-ethyl hexyl) phthalate (DEHP)	117-81-7	ND	0.005	--
Benzyl butyl phthalate (BBP)	85-68-7	ND	0.005	--
Diisobutyl phthalate (DIBP)	84-69-5	ND	0.005	--
Sum of DBP, DEHP, BBP and DIBP	--	ND	--	0.1
Di-iso-nonyl phthalate (DINP)	28553-12-0	ND	0.005	--
Di-n-octyl phthalate(DNOP)	117-84-0	ND	0.005	--
Di-iso-decyl phthalate (DIDP)	26761-40-0	ND	0.005	--
Sum of DINP, DNOP and DIDP	--	ND	--	0.1

The limit was quoted according to Regulation (EC) No 1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) and Amendment (EC) No 552/2009 and (EU) 2018/2005, Annex XVII Entry 51 & 52 on Phthalate Content.



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For toys and childcare articles, combination of DIBP to current limit (sum of DBP, DEHP and BBP) was quoted from Commission Regulation (EU) 2018/2005 effective from 7 July 2020.

ND = Not detected (less than reporting limit)

Tested component(s):

Sequence No.	Test Component No.	Test Component Description(s)
SN1	(4)	Coatings (yellow, silver-grey) on metal/plastic (base of hand, hand of #18788, #18790, wheel of #18788, #18789, #18790, #18791).
SN2	(8)	Coatings (blue, black, white, silver color, orange, grey) on metal/plastic (cover of engine, window, rim, roof, cover of wheel, seat of #31612, #31632).
SN3	(10)	Black 70 °PVC plastic (tire of #31612, #31632).
SN4	(11)	Black plastic (base, wheel of #18788, #18789, #18790, #18791).
SN5	(12)	Orange plastic (case of #18791).
SN6	(13)	Brown plastic (case of #18789).
SN7	(14)	Silver-grey plastic (binding of #18789).
SN8	(15)	Green plastic (deck of #18788).
SN9	(16)	Red plastic (case of #18790).
SN10	(17)	Black plastic excluding coatings (hand of #18788, #18790).
SN11	(18)	White plastic (rim of #31612, #31632).
SN12	(19)	Transparent plastic (window of #31612, #31632).
SN13	(20)	Black plastic (base, cover of wheel, roof, hand of #31612, #31632).
SN14	(21)	Beige plastic (gear of #31612, #31632) (internal).

Date sample received: Apr 30, 2020
Testing period: Apr 30, 2020 to May 11, 2020

6 Phthalates Content

By solvent extraction and followed by Gas Chromatographic-Mass Spectrometric (GC-MS) analysis.

Test item	Result (%)	Reporting limit (%)
	Tested component	
	(4+8), (10), (11+12), (13+14+15), (16+17+18), (19+20), (21)	
Di-n-hexyl phthalate (DnHP)	ND	0.01
Di-iso-butyl phthalate (DIBP)	ND	0.01
Di-cyclohexyl phthalate (DCHP)	ND	0.01
Di-n-pentyl phthalate (DPENP)	ND	0.01

ND = Not Detected



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Tested Components:

Sequence No.	Test Component No.	Test Component Description(s)
SN1	(4)	Coatings (yellow, silver-grey) on metal/plastic (base of hand, hand of #18788, #18790, wheel of #18788, #18789, #18790, #18791).
SN2	(8)	Coatings (blue, black, white, silver color, orange, grey) on metal/plastic (cover of engine, window, rim, roof, cover of wheel, seat of #31612, #31632).
SN3	(10)	Black 70 °PVC plastic (tire of #31612, #31632).
SN4	(11)	Black plastic (base, wheel of #18788, #18789, #18790, #18791).
SN5	(12)	Orange plastic (case of #18791).
SN6	(13)	Brown plastic (case of #18789).
SN7	(14)	Silver-grey plastic (binding of #18789).
SN8	(15)	Green plastic (deck of #18788).
SN9	(16)	Red plastic (case of #18790).
SN10	(17)	Black plastic excluding coatings (hand of #18788, #18790).
SN11	(18)	White plastic (rim of #31612, #31632).
SN12	(19)	Transparent plastic (window of #31612, #31632).
SN13	(20)	Black plastic (base, cover of wheel, roof, hand of #31612, #31632).
SN14	(21)	Beige plastic (gear of #31612, #31632) (internal).

Date sample received : Apr 30, 2020
Testing period : Apr 30, 2020 to May 11, 2020

7 Polycyclic Aromatic Hydrocarbons (PAHs) Content

With reference to AfPS GS 2014:01 PAK (PAH), PAHs content was determined by Gas Chromatography-Mass Spectrometry (GC-MS).

Test item	Result (mg/kg)	Reporting limit (mg/kg)	Limit (mg/kg)
	Tested component (3), (7), (10+11), (12+13), (14+15), (16+17), (18+19), (20)		
Benzo[a]anthracene	ND	0.1	0.5
Chrysene	ND	0.1	0.5
Benzo[b]fluoranthene	ND	0.1	0.5
Benzo[k]fluoranthene	ND	0.1	0.5
Benzo[a]pyrene	ND	0.1	0.5
Dibenzo[a,h]anthracene	ND	0.1	0.5
Benzo[j]fluoranthene	ND	0.1	0.5
Benzo[e]pyrene	ND	0.1	0.5

ND= Not detected (less than reporting limit)



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Tested Component(s):

Sequence No.	Test Component No.	Test Component Description(s)
SN1	(3)	Yellow coating on metal (base of hand of #18788, #18790).
SN2	(7)	Coatings (blue, black, white, silver color, orange, grey) on metal (cover of engine of #31612, #31632).
SN3	(10)	Black 70 °PVC plastic (tire of #31612, #31632).
SN4	(11)	Black plastic (base, wheel of #18788, #18789, #18790, #18791).
SN5	(12)	Orange plastic (case of #18791).
SN6	(13)	Brown plastic (case of #18789).
SN7	(14)	Silver-grey plastic (binding of #18789).
SN8	(15)	Green plastic (deck of #18788).
SN9	(16)	Red plastic (case of #18790).
SN10	(17)	Black plastic excluding coatings (hand of #18788, #18790).
SN11	(18)	White plastic (rim of #31612, #31632).
SN12	(19)	Transparent plastic (window of #31612, #31632).
SN13	(20)	Black plastic (base, cover of wheel, roof, hand of #31612, #31632).

Date sample received: Apr 30, 2020

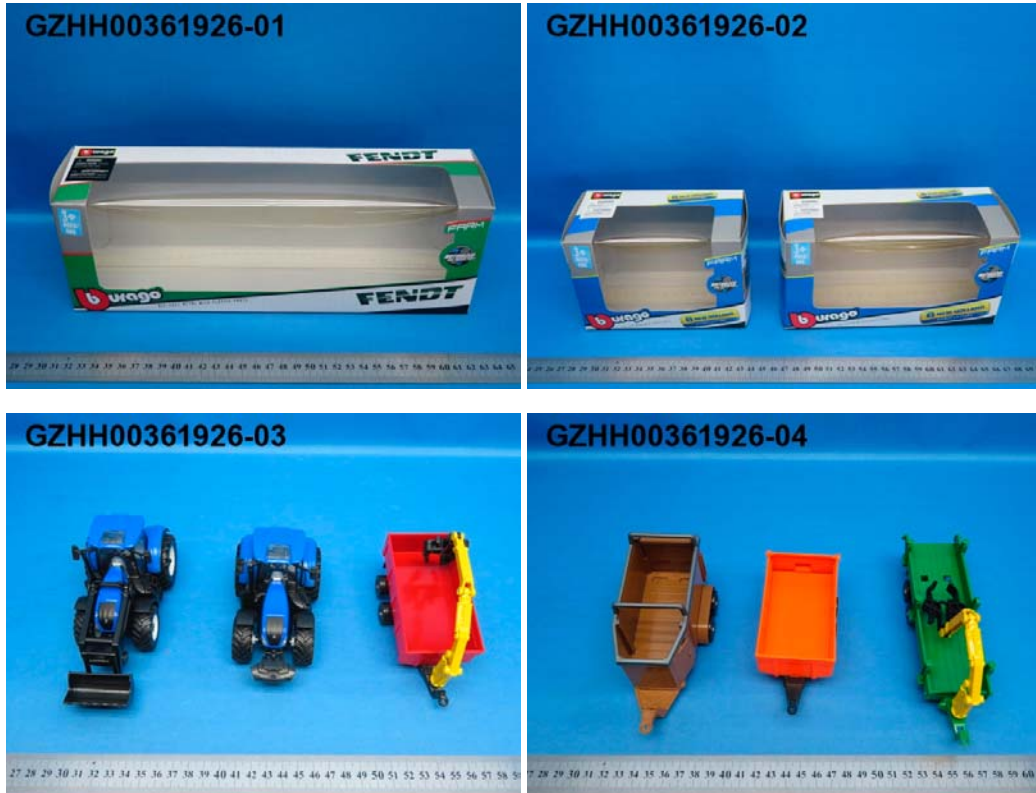
Testing period: Apr 30, 2020 to May 08, 2020



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End of report

The statements of conformity reported have considered the decision rule agreed, namely that Intertek have taken account of measurement uncertainty as calculated by Intertek, and applied according to ILAC-G8/09:2019 (Non-binary acceptance based on guard band $w = U$) except designation from the customer, regulation or test specification.

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