

Test Report

Number: GZHH0032857902S1

Applicant: MAY CHEONG TOY PRODUCTS FTY., LTD
UNIT 901-2, 9/F., EAST OCEAN CENTRE,
98 GRANVILLE ROAD, TSIMSHATSUI EAST,
KOWLOON, HONG KONG

Date: Sep 11, 2019

Attn: ICY HUANG

This is to supersede Report No. GZHH0032857902 dated Jun 29, 2019

Sample Description:

Ten (10) styles of submitted sample said to be :

No.	Item	Description	Color
1	31266	1:24 2017 Ford F-150 Raptor	Metallic Blue
2	31269	1:24 2012 Ford Mustang Boss 302	Dull Black
3	31281	1:24 Audi R8	Dull Black
4	31282	1:24 Jeep Renegade	Red
5	31506	1:24 2014 Ford Mustang Street Racer	White
6	31935	Harley Davidson ~ 1:25 1948 Ford F-1 Pickup	Dull Black
7	31935	Harley Davidson ~ 1:25 1948 Ford F-1 Pick up	Black/Orange
8	31943	1:24 1970 Ford Mustang Boss 302	Yellow
9	31977	1:25 1965 Chevrolet El Camino	Metallic Blue
10	32509	Design Exotic ~ 1:24 Bugatti Chiron	Light Blue/White

Labelled Age Group : "3+,8+"
 Applicant Specified Age : Over 3 years
 Grading for Testing :
 Packaging Provided by Applicant : Yes
 Country of Origin : China

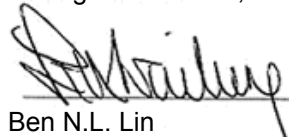
Tests conducted:

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

Conclusion:

<u>Tested sample</u>	<u>Standard</u>	<u>Result</u>
Tested component(s) of submitted samples	EN71-3:2019 on migration of certain elements	Pass

Authorized by:
For Intertek Testing Services Shenzhen Ltd.
Guangzhou Branch, Hardlines


Ben N.L. Lin
General Manager



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Tests Conducted

1 19 Toxic Element Migration Test

(A) Test Result

As per EN71-3:2019 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					
	(2)	(4)	(7)	(9)		
Aluminium (Al)	2644	5016	2314	2104	300	70000
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	2.0	12
Zinc (Zn)	212	10911	11085	11164	100	46000



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Element	Result (mg/kg)				Reporting Limit (mg/kg)	Limit (mg/kg)
	Tested Component					
	(10)	(12)	(13)	(15)		
Aluminium (Al)	1886	1696	ND	2021	300	70000
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	2.0	12
Zinc (Zn)	10691	10595	ND	10793	100	46000

Element	Result (mg/kg)				Reporting Limit (mg/kg)	Limit (mg/kg)
	Tested Component					
	(16)	(17)	(18)	(19)		
Aluminium (Al)	ND	1183	522	10053	300	70000
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	2.0	12
Zinc (Zn)	ND	9831	6115	10367	100	46000



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Element	Result (mg/kg)				Reporting Limit (mg/kg)	Limit (mg/kg)
	Tested Component					
	(21)	(22)	(25)	(27)		
Aluminium (Al)	2431	ND	ND	ND	300	70000
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	2.0	12
Zinc (Zn)	10468	ND	ND	ND	100	46000

Element	Result (mg/kg)		Reporting Limit (mg/kg)	Limit (mg/kg)
	Tested Component			
	(28)	(29)		
Aluminium (Al)	ND	ND	300	70000
Antimony (Sb)	ND	ND	10	560
Arsenic (As)	ND	ND	10	47
Barium (Ba)	ND	ND	10	18750
Boron (B)	ND	ND	50	15000
Cadmium (Cd)	ND	ND	5	17
Chromium (III) (Cr III) **	ND	ND	10	460
Chromium (VI) (Cr VI) **	ND#	ND#	0.025	0.053☉
Cobalt (Co)	ND	ND	10	130
Copper (Cu)	ND	ND	10	7700
Lead (Pb)	ND	ND	10	23
Manganese (Mn)	ND	ND	10	15000
Mercury (Hg)	ND	ND	10	94
Nickel (Ni)	ND	ND	10	930
Selenium (Se)	ND	ND	10	460
Strontium (Sr)	ND	ND	100	56000
Tin (Sn)	ND	ND	2.5	180000
Organic tin **	ND	ND	2.0	12
Zinc (Zn)	ND	ND	100	46000



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Tests Conducted

Element	Result (mg/kg)	Reporting Limit (mg/kg)	Limit (mg/kg)
	Tested Component		
	(5), (8), (23), (24), (26)		
Aluminium (Al)	ND	300	70000
Antimony (Sb)	ND	10	560
Arsenic (As)	ND	10	47
Barium (Ba)	ND	10	18750
Boron (B)	ND	50	15000
Cadmium (Cd)	ND	5	17
Chromium (III) (Cr III) **	ND	10	460
Chromium (VI) (Cr VI) **	ND	0.025	0.053◎
Cobalt (Co)	ND	10	130
Copper (Cu)	ND	10	7700
Lead (Pb)	ND	10	23
Manganese (Mn)	ND	10	15000
Mercury (Hg)	ND	10	94
Nickel (Ni)	ND	10	930
Selenium (Se)	ND	10	460
Strontium (Sr)	ND	100	56000
Tin (Sn)	ND	2.5	180000
Organic tin **	ND	2.0	12
Zinc (Zn)	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 chromium (VI) migration limit [(0.053mg/kg for Category (III))] were quoted from directive (EU) 2018/725 amending 2009/48/EC effective from 18 November 2019.
 # = Confirmation of Chromium (VI) test was performed on the tested component. And the reported value of migration of Chromium (III) = migration value of total Chromium – migration value of Chromium(VI).



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Tests Conducted

Tested Component(s):

- (1) @ Black coating on plastic (window of all styles).
- (2) Metallic dark grey coating on plastic (deck of #31266).
- (3) @ Yellow coating on plastic (car light of #31266).
- (4) Coatings (metallic blue, black, yellow) on metal (body of #31266).
- (5) Transparent adhesive plastic sheet with inaccessible coatings (mirror of all styles) (sample weight: 18.2mg).
- (6) @ Silver color coating on plastic (rim, engine of #31269, #31281).
- (7) Coatings (black, white, orange) on metal (body of #31269).
- (8) Transparent plastic (car light of #31266).
- (9) Coatings (black, silver color) on metal (body of #31281).
- (10) Coatings (red, silver color) on metal (body of #31282).
- (11) @ Coatings (silver color, yellow) on plastic (engine of #31506).
- (12) Coatings (white, black, silver color, red) on metal (body of #31506).
- (13) Off-white plastic excluding coatings (rim of #32509).
- (14) @ Bright silver color coating on plastic (mirror, rim, fender of #31935).
- (15) Coatings (black, green, white) on metal (body of #31935 green).
- (16) Metallic orange plastic (rim of #31935).
- (17) Coatings (black, orange, white, silver color) on metal (body of #31935 orange).
- (18) Coatings (yellow, white, silver color, black) on metal (body of #31943).
- (19) Coatings (metallic blue, silver color, red, blue) on metal (body of #31977).
- (20) @ Coatings (blue, grey) on plastic (seat, inside of #32509).
- (21) Coatings (blue, white, black) on metal (body of #32509).
- (22) Metallic green plastic (rim of #31935).
- (23) Black 60 °PVC plastic (tire of #31266, #31281, #31282, #31935, #31943, #31977, #32509).
- (24) Black 70 °PVC plastic (tire of #31269, #31506).
- (25) Black 90 °PVC plastic (mirror of #31281).
- (26) Black plastic (base of all styles).
- (27) Transparent plastic (window of all styles).
- (28) Semi-transparent plastic excluding coating (rear car light of #31266).
- (29) Beige plastic (deck of #31935).

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



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Tests Conducted

(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).

Date sample received: Jun 14, 2019

Testing period: Jun 14, 2019 to Jun 27, 2019



Tests Conducted

Appendix

Applicant's Ref.	:	31021	1:24 Allstars, Assorted
		31027	1:27 Hummer, Assorted
		31029	1:24 Custom Shop, Assorted
		31084	1:24 Special Edition (#31900) with white mailer box
		31088	1:24 Pro-Rodz, Assorted
		31089	1:24 Pro-Rodz ~ 1968 Chevrolet Camaro SS 396 Convertible
		31302	1:24 Special Edition in Creative graphic window box
		31900	1:24 - 1:27 Special Edition, Assorted
		31900A	1:24 ~ 1:27 SCALE METAL KRUZERZ, ASSORTED
		31900B	1:24 ~ 1:27 SCALE METAL KRUZERZ, ASSORTED
		32019	1:24 Custom Shop + 1:24 ProdRodz ProStreet, Assorted
		32065	Marvel Iron Man 2 1:24 Die-cast Vehicle Asst.
		32089	1:24 Dirt Riders ~ Assorted
		32990	1:24 AllStars Elite Transport
		34009	1:24 - 1:27 Scale Vehicles in Floor Display
		32301	1:24 Hippie Line ~ Volkswagen Van "Samba"
		34019	14pcs 1:24 Custom Shop in Floor Display
		34032	1:24 Dirt Riders 4pcs bulk in display box
		34040	Mixed item floor display
		34041	7 pcs 1:24 HD Ford Mustang + 7 pcs 1:24 Pickup in Floor Display
		34049	1:24 Harley Davidson Ford, Asst. 20 pcs in floor display
		34088	1:24 Pro-Rodz, Assorted ~ 4 pcs tray pack
		34089	1:24 Custom Shop 4pk bulk in display box
		34900	1:24 Scale 4 pk Vehicles in Open Tray Display
		32900	1:24 SE + 1:12 Moto Assorted
		62011	1:24 SE + 1:12 Moto Assorted
		32451	1:24 Design Classic Muscle, Assorted
		32452	1:24 Design Modern Muscle, Assorted
		32453	1:24 Design Exotic, Assorted
		32454	1:24 Design Outlaws, Assorted
		32455	1:24 Design Authority, Assorted
		32456	1:24 Maisto Design Tokyo Mod , Assorted
		32457	1:24 Design Classics , Assorted
		32520	1:24 Maisto Design Off-Road Kings, Assorted
		32160	1:24 H-D Ford Mustang
		32161	1:24 H-D Ford Pick-up w/ 1:24 H-D motorcycle
		32162	1:24 H-D Ford Mustang & 1:24 H-D Ford Pick-up w/1:24 H-D motorcycle Asst
		32171	1:25 H-D 1948 Ford F-1 Pick-up w/ 1:24 H-D 1948 FL PANHEAD motorcycle



Tests Conducted

Appendix

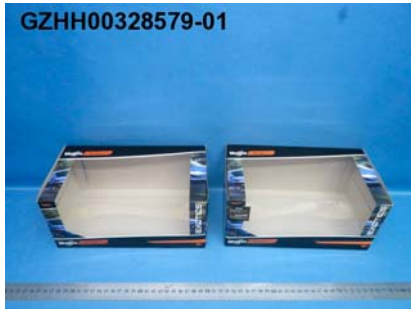
Applicant's Ref.	:	32172	1:27 H-D 1999 Ford F-350 Pick-up w/ 1:24 H-D 1936 EL Knucklehead motorcycle
		32182	1:27 H-D 2010 Ford F-150 STX w/ 1:24 H-D 2007 XL 1200N Nightster motorcycle
		32185	1:25 H-D 1948 Ford F-1 Pickup w/ 1:24 H-D 1942 WLA Flathead motorcycle
		32186	1:27 H-D 1999 Ford F-350 Pickup w/ 1:24 H-D 2004 FLHTPI Electra Glide Police motorcycle
		32188	1:24 H-D 2015 Ford Mustang GT
		32191	1:25 H-D 1948 Ford F-1 Pickup w/ 1:24 H-D 1936 EL Knucklehead motorcycle
		32193	1:24 H-D 1970 Chevrolet Corvette
		32194	1:25 H-D 1950 Chevrolet 3100 Pickup w/ 1:24 H-D 2001 FLSTS Heritage Springer motorcycle
		34160	1:24 Harley Davidson Ford Mustang bulk pack in tray
		34161	1:24 HD Ford Pick-up w/o motorcycle 4 pk in open tray
		32173	1:27 H-D 2010 Ford F-150 STX w/ 1:24 H-D 1958 FLH DUO GLIDE motorcycle
		32175	1:24 H-D 1929 Ford Model A
		32180	1:25 H-D 1948 Ford F-1 Pickup w/ 1:24 H-D 1958 FLH Duo Glide motorcycle
		32181	1:27 H-D 1999 Ford F-350 Pick-up w/ 1:24 H-D 2002 FXSTB Night Train motorcycle



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End of report

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To: MAY CHEONG TOY PRODUCTS FTY., LTD
Attention: ICY HUANG

Ref: FC-190 (1453)
Date: Sep 11, 2019

Re : Report Revision Notification

Intertek Testing Services Report Number GZHH0032857902 Dated Jun 29, 2019

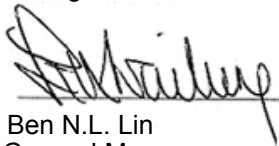
Please be informed that all the content recorded in the above captioned report will be void. This captioned report is now supersede by a revised Intertek Testing Services Report, GZHH0032857902S1

Details of report amendment:

1. Add applicant's Ref. information as per client's request.

Thank you for your attention.

Authorized by:
For Intertek Testing Services Shenzhen Ltd.
Guangzhou Branch, Hardlines



Ben N.L. Lin
General Manager

