





CLIENT: Carpenters Manufactory Limited REPORT NO: C80451775

ADDRESS: Huang Jin Ji Industrial Zone, Shang Jie Village, QiShi DATE: August 24, 2017

Town, DongGuan City, Guang Dong, China

Attn: Kelly Xiong

Sample Description: Wooden Clock /

Wooden Play Kitchen/

Cash Register/

Carpenter's Workbench/ Time Learning Board

Quantity Submitted: 5 sets

Supplier: Carpenters Manufactory Limited

Buyer: Not provided

Style/Item No.: MK04482/ MK05250/ MK04154/ MK05694/ ME09609

P.O. No.: Not provided

Labeled Age Grading: 3+
Destination: Global
Country of Origin: China

Date(s) of samples received: March 30, 2017& May 12, 2017& July 18, 2017

**TEST METHOD & RESULTS:** Please refer to next page(s)

CONCLUSION: Please refer to page two(2)

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### **CONCLUSION:**

USA:	
ASTM F963-16 Physical	& Mechanical Requirements

As I WI 1 703-10 I hysical & Wechanical Requirements	I Abb
16 CFR 1500&1501 Physical & Mechanical Requirements	PASS
ASTM F963-16 Flammability Requirements	PASS
16 CFR 1500.3 (c)(6) (vi) / 16 CFR 1500.44 Flammability Requirements	PASS
ASTM F963-16 Clause 4.3.5.1 (2) Elements Migration in surface coating	PASS <sup>#2</sup>
ASTM F963-16 Clause 4.3.5.2 (2) (b) Elements Migration in substrate	PASS <sup>#4</sup>
ASTM F963-16 Clause 4.3.5.1 (1) Total Lead in Surface Coating	PASS <sup>#3</sup>
16 CFR 1303 Total Lead Content Requirements	PASS <sup>#3</sup>
Consumer Product Safety Improvement Act of 2008 Total Lead Content	PASS <sup>#3</sup>
Requirement [Paint or Surface Coating]	
ASTM F963-16 Clause 4.3.5.2 (2) (a) Total Lead in Substrate	PASS <sup>#4</sup>
Consumer Product Safety Improvement Act of 2008 Total Lead Content	PASS <sup>#4</sup>

Requirement [Substrate Materials]

ASTM F963-16 Clause 4.3.5.2 (2) (c) Soluble Cadmium in metallic small part

NOT APPLICABLE<sup>#1</sup>

Consumer Product Safety Improvement Act of 2008 Total Phthalate Requirement PASS<sup>#2</sup>

**CANADA:** 

Canada Toys Regulations SOR/2011-17 And Regulations Amending Toys
Regulations SOR/2016-195 &SOR/2016-302 Physical And Mechanical

Requirements

Canada Toys Regulations SOR/2011-17 And Regulations Amending Toys PASS

Regulations SOR/2016-195 &SOR/2016-302 Flammability Requirements (Cellulose

Nitrate And Celluloid)

Flammability Requirements For Textile Fibres: SOR/2016-194

Canada Toys Regulations SOR/2011-17 and Regulations Amending Toys

PASS<sup>#3</sup>

PASS<sup>#3</sup>

Canada Toys Regulations SOR/2011-17 and Regulations Amending Toys

Regulations SOR/2016 105 % SOR/2016 202 Heavy Metal Contest Regularments

Regulations SOR/2016-195 &SOR/2016-302 Heavy Metal Content Requirements

Canada Phthalates regulations SOR 2016-188 PASS<sup>#2</sup>

Canada Consumer Products Containing Lead (Contact mouth) regulation NOT APPLICABLE<sup>#1</sup>

AU:

AS/NZS 8124.1:2016 Physical & Mechanical Requirements

AS/NZS ISO 8124.2:2016 Flammability Requirements

Migration Of Certain Elements : AS/NZS ISO 8124.3:2012/Amdt 1:2016

PASS

P

DEHP requirement per Australia Government

NOT APPLICABLE<sup>#1</sup>

EII:

EN 71-1:2014 Mechanical & Physical Properties

EN 71-2:2011 + A1:2014 Flammability

EN 71-3:2013+A1:2014 Migration of Certain Elements

Total Cadmium Content and European Reach Regulation Annex XVII

Total Phthalate Content European Reach Regulation Annex XVII

PASS\*\*2

PASS\*\*2

Azo Dyes Test and European Reach Regulation Annex XVII NOT APPLICABLE<sup>#1</sup>

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SZ-FAF-001 (2013-04-1

DACC







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#1: There is no component on the submitted test samples under the testing scopes.

#2: As claimed by client, the sample 2, 3, 4, 5, 6, 7, 8, 9, 10, 11 and 12 listed in the report is identical with the one in report C82071667. The test data of sample 2, 3, 4, 5, 6, 7, 8, 9, 10, 11 and 12 in the report was referred from report C82071667 issued on November 28, 2016.

#3: As claimed by client, the sample 2, 3, 4, 5, 6, 7, 8, 9, 10, 11 and 12 listed in the report is identical with the one in report C82071666. The test data of sample 2, 3, 4, 5, 6, 7, 8, 9, 10, 11 and 12 in the report was referred from report C82071666 issued on November 28, 2016.

#4: As claimed by client, the sample 42 and 43 listed in the report is identical with the one in report C82231639. The test data of sample 42 and 43 in the report was referred from report C82231639 issued on February 21, 2017.

For and on behalf of:

UL VS Shanghai Limited Shenzhen Branch

David Mo

Assistant Manager- Toys Department

Lulu Yang

Senior Technical Officer Chemical Department

Lulu Yang

#### Important Notes:

The results only relate to the samples tested.

### The below tests are except from the ILAC-MRA/CNAS accreditation scope:

- Canada Toys Regulations SOR/2011-17 And Regulations Amending Toys Regulations SOR/2016-195 &SOR/2016 302 Physical And Mechanical Requirements
- Canada Toys Regulations SOR/2011-17 And Regulations Amending Toys Regulations SOR/2016-195 &SOR/2016-302 Flammability Requirements (Cellulose Nitrate And Celluloid)

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### **TEST RESULTS**

1. USA

### 1.1 MECHANICAL AND PHYSICAL TEST

### 1.1.1 AS PER ASTM STANDARD CONSUMER SAFETY SPECFICATION FOR TOYS SAFETY F963-16

The following clauses are identified to be applicable:

Age grading for testing : Ages 3+

Samples Quantity : 5 style (s) x 1 piece(s)

<b>Clause</b>	<u>Test Items</u>	<u>Assessment</u>
4.1	Material(visual check on cleanness)	P
4.7	Accessible Edges	P
4.9	Accessible Points	P
4.11	Nails And Fasteners	P
4.18	Holes, Clearance, And Accessibility Of Mechanisms	P
5	Safety Labeling Requirements	P
6	Instructional Literature	P
7	Producer's Markings	P

Remark: P = Pass

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### **TEST RESULTS**

1.1.2 AS PER 16 CFR 1500.50, THE HAZARDS OF SHARP POINTS, SHARP EDGE AND SMALL PARTS ARE ASSESSED BOTH BEFORE AND AFTER APPLICABLE USE AND ABUSE \ **TESTS:** 

The following clauses are identified to be applicable:

Age grading for testing : Ages 3+

: 5 style (s) x 1 piece(s) **Samples Quantity** 

TEST ITEMS	SHARP POINT	SHARP EDGE
	(1500.48)	(1500.49)
As received	P	P
Impact Test	P	P
Torque Test	P	P
Tension Test	P	P
Compression	P	P
	As received Impact Test Torque Test Tension Test	As received P Impact Test P Torque Test P Tension Test P

Remark: P = Pass

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#### **TEST RESULTS**

#### FLAMMABILITY TEST

#### 1.2.1 AS PER ASTM STANDARD ON SAFETY OF TOYS F963-16 ANNEX A5:

Samples Quantity: 5 style (s) x 1 piece(s)

Requirement: Burning rate should not exceed 0.1 inch per second along the major axis.

Results: The sample was tested to be ignited but extinguished.

## 1.2.2 AS PER U.S. CODE OF FEDERAL REGULATIONS TITLE 16 PART 1500.44 FOR RIGID AND PLIABLE SOLIDS DEFINED UNDER 16 CFR 1500.3 SECTION (C) (6) (VI):

Samples Quantity: 5 style (s) x 1 piece(s)

Requirement: Burning rate should not exceed 0.1 inch per second along the major axis.

Results: The sample was tested to be ignited but extinguished.

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### **TEST RESULTS**

#### 1.3 **CHEMICAL TESTS:**

#### 1.3.1 SOLUBLE ELEMENT MIGRATION IN SURFACE COATING

Requirement: As per ASTM F963-16 Clause 4.3.5.1 (2) requirement, materials under test shall not

exceed below limit.

Reference to ASTM F963-16 Clause 8.3, used acid extraction and analyzed by Inductively Test method

Coupled Argon Plasma Spectrometry.

Elements	Antimony	Arsenic	Barium	Cadmium	Chromium	Lead	Mercury	Selenium
Limits	< 60	< 25	< 1000	< 75	< 60	< 90	< 60	< 500
Sample 2	< 6.0	< 2.5	< 6.0	< 6.0	< 6.0	< 6.0	< 6.0	< 6.0
Sample 3	< 6.0	< 2.5	< 6.0	< 6.0	< 6.0	< 6.0	< 6.0	< 6.0
Sample 4	< 6.0	< 2.5	< 6.0	< 6.0	< 6.0	< 6.0	< 6.0	< 6.0
Sample 5	< 6.0	< 2.5	< 6.0	< 6.0	< 6.0	< 6.0	< 6.0	< 6.0
Sample 6	< 6.0	< 2.5	< 6.0	< 6.0	< 6.0	< 6.0	< 6.0	< 6.0
Sample 7	< 6.0	< 2.5	< 6.0	< 6.0	< 6.0	7.5	< 6.0	< 6.0
Sample 8	< 6.0	< 2.5	< 6.0	< 6.0	< 6.0	< 6.0	< 6.0	< 6.0
Sample 9	< 6.0	< 2.5	< 6.0	< 6.0	< 6.0	< 6.0	< 6.0	< 6.0
Sample 10	< 6.0	< 2.5	< 6.0	< 6.0	< 6.0	< 6.0	< 6.0	< 6.0
Sample 11	< 6.0	< 2.5	< 6.0	< 6.0	< 6.0	< 6.0	< 6.0	< 6.0
Sample 12	< 6.0	< 2.5	< 6.0	< 6.0	< 6.0	< 6.0	< 6.0	< 6.0

### Remark:

All concentrations expressed in milligrams per kilogram

"<" means "less than" 2.

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### **TEST RESULTS**

### 1.3.2 SOLUBLE ELEMENT MIGRATION IN SUBSTRATES

Requirement: As per ASTM F963-16 Clause 4.3.5.2 (2) (b) requirement, materials under test shall not

exceed below limit.

Test method Reference to ASTM F963-16 Clause 8.3, used acid extraction and analyzed by Inductively

Coupled Argon Plasma Spectrometry.

Results:								
Elements	Antimony	Arsenic	Barium	Cadmium	Chromium	Lead	Mercury	Selenium
Limits	< 60	< 25	< 1000	< 75	< 60	< 90	< 60	< 500
Sample 1	< 6.0	< 2.5	9.0	< 6.0	< 6.0	< 6.0	< 6.0	< 6.0
[Second Sub	mission Sam	ple]						
Sample 13	< 6.0	< 2.5	< 6.0	< 6.0	< 6.0	< 6.0	< 6.0	< 6.0
Sample 14	< 6.0	< 2.5	< 6.0	< 6.0	< 6.0	< 6.0	< 6.0	< 6.0
Sample 15	< 6.0	< 2.5	< 6.0	< 6.0	< 6.0	< 6.0	< 6.0	< 6.0
Sample 16	< 6.0	< 2.5	< 6.0	< 6.0	< 6.0	< 6.0	< 6.0	< 6.0
Sample 17	< 6.0	< 2.5	< 6.0	< 6.0	< 6.0	< 6.0	< 6.0	< 6.0
Sample 18	< 6.0	< 2.5	< 6.0	< 6.0	< 6.0	< 6.0	< 6.0	< 6.0
Sample 19	< 6.0	< 2.5	< 6.0	< 6.0	< 6.0	< 6.0	< 6.0	< 6.0
Sample 20	< 6.0	< 2.5	< 6.0	< 6.0	< 6.0	< 6.0	< 6.0	< 6.0
Sample 21	< 6.0	< 2.5	< 6.0	< 6.0	< 6.0	< 6.0	< 6.0	< 6.0
Sample 22	< 6.0	< 2.5	< 6.0	< 6.0	< 6.0	< 6.0	< 6.0	< 6.0
Sample 23	< 6.0	< 2.5	< 6.0	< 6.0	< 6.0	< 6.0	< 6.0	< 6.0
Sample 24	< 6.0	< 2.5	< 6.0	< 6.0	< 6.0	< 6.0	< 6.0	< 6.0
Sample 25	< 6.0	< 2.5	< 6.0	< 6.0	< 6.0	< 6.0	< 6.0	< 6.0
Sample 26	< 6.0	< 2.5	11.0	< 6.0	< 6.0	< 6.0	< 6.0	< 6.0
Sample 27	< 6.0	< 2.5	< 6.0	< 6.0	< 6.0	< 6.0	< 6.0	< 6.0
Sample 28	< 6.0	< 2.5	< 6.0	< 6.0	< 6.0	< 6.0	< 6.0	< 6.0
Sample 31	< 6.0	< 2.5	< 6.0	< 6.0	< 6.0	< 6.0	< 6.0	< 6.0
Sample 32	< 6.0	< 2.5	< 6.0	< 6.0	< 6.0	< 6.0	< 6.0	< 6.0
Sample 33	< 6.0	< 2.5	< 6.0	< 6.0	< 6.0	< 6.0	< 6.0	< 6.0
Sample 34	< 6.0	< 2.5	< 6.0	< 6.0	< 6.0	< 6.0	< 6.0	< 6.0
Sample 35	< 6.0	< 2.5	< 6.0	< 6.0	< 6.0	< 6.0	< 6.0	< 6.0
Sample 36	< 6.0	< 2.5	< 6.0	< 6.0	< 6.0	< 6.0	< 6.0	< 6.0
Sample 37	< 6.0	< 2.5	< 6.0	< 6.0	< 6.0	< 6.0	< 6.0	< 6.0
Sample 38	< 6.0	< 2.5	< 6.0	< 6.0	< 6.0	< 6.0	< 6.0	< 6.0
Sample 39	< 6.0	< 2.5	< 6.0	< 6.0	< 6.0	< 6.0	< 6.0	< 6.0
Sample 40	< 6.0	< 2.5	< 6.0	< 6.0	< 6.0	< 6.0	< 6.0	< 6.0

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#### **TEST RESULTS**

Results:	

Elements	Antimony	Arsenic	Barium	Cadmium	Chromium	Lead	Mercury	Selenium
Limits	< 60	< 25	< 1000	< 75	< 60	< 90	< 60	< 500
Sample 41	< 6.0	< 2.5	10.5	< 6.0	< 6.0	< 6.0	< 6.0	< 6.0
Sample 42	< 6.0	< 2.5	< 6.0	< 6.0	< 6.0	< 6.0	< 6.0	< 6.0
Sample 43	< 6.0	< 2.5	< 6.0	< 6.0	< 6.0	< 6.0	< 6.0	< 6.0

#### Remark:

- 1. All concentrations expressed in milligrams per kilogram
- 2. "<" means "less than"

### 1.3.2 TOTAL LEAD CONTENT TEST: COATING

Requirement : As per ASTM F963-16 Clause 4.3.5.1 (1) requirement, lead content in the materials under test shall not exceed of 90ppm.

Test method: CPSC-CH-E1003-09.1 Standard operating procedure for determining Lead (Pb) in paint

### Results:

Total Lead	<u>Sample 2</u> <10.0	<u>Sample 3</u> <10.0	<u>Sample 4</u> <10.0	<u>Sample 5</u> <10.0	<u>Sample 6</u> <10.0
Total Lead	<u>Sample 7</u> 21.9	<u>Sample 8</u> <10.0	<u>Sample 9</u> <10.0	<u>Sample 10</u> <10.0	<u>Sample 11</u> <10.0
Total Lead	<u>Sample 12</u> <10.0				

All concentrations expressed in milligrams per kilogram "<" means "less than"

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Carpenters Manufactory Limited C80451775 CLIENT: REPORT NO: ADDRESS:

Huang Jin Ji Industrial Zone, Shang Jie Village, QiShi DATE: August 24, 2017

Town, DongGuan City, Guang Dong, China

### **TEST RESULTS**

#### 1.3.4 TOTAL LEAD CONTENT TEST: COATING

Criteria: The submitted samples must meet the Total Lead Limit of 90ppm as stated in 16 CFR

1303

CPSC-CH-E1003-09.1 Standard operating procedure for determining Lead (Pb) in paint

Results:

Total Lead

Sample 2 Sample 3 Sample 4 Sample 5 Sample 6 <10.0 <10.0 Total Lead <10.0 <10.0 <10.0

Sample 7 Sample 8 Sample 9 Sample 10 Sample 11 Total Lead 21.9 <10.0 <10.0 <10.0 <10.0

> Sample 12 <10.0

> > All concentrations expressed in milligrams per kilogram "<" means "less than"

### 1.3.5 TOTAL LEAD CONTENT TEST: COATING

Requirement: The submitted samples must meet the Total Lead Limit of 90ppm as per Consumer Product

Safety Improvement Act of 2008

Test method: CPSC-CH-E1003-09.1 Standard operating procedure for determining Lead (Pb) in paint

Results:

Sample 2 Sample 3 Sample 6 Sample 4 Sample 5 Total Lead <10.0 <10.0 <10.0 <10.0 <10.0 Sample 10 Sample 11 Sample 7 Sample 8 Sample 9 Total Lead 21.9 <10.0 <10.0 <10.0 <10.0

Sample 12 Total Lead <10.0

> All concentrations expressed in milligrams per kilogram "<" means "less than"

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ADDRESS: Huang Jin Ji Industrial Zone, Shang Jie Village, QiShi DATE: August 24, 2017

Town, DongGuan City, Guang Dong, China

### **TEST RESULTS**

#### 1.3.6 TOTAL LEAD CONTENT TEST: SUBSTRATE

Requirement: As per ASTM F963-16 Clause 4.3.5.2 (2) (a) requirement, lead content in the materials under

test shall not exceed of 100ppm.

Test method CPSC-CH-E1001-8.3 Standard operating procedure for determining total Lead (Pb) in metal;

CPSC-CH-E1002-8.3 Standard operating procedure for determining total Lead (Pb) in non-

metal

#### Results:

	<u>Sample 1</u> [Second Submission	Sample 13/14/15	Sample 16/17/18	Sample 19/20/21
Total Lead	<b>Sample</b> ] <10.0	<10.0	<10.0	<10.0
Total Lead	<u>Sample 22/26/27</u> <10.0	Sample 23/24/25 <10.0	<u>Sample 28/31</u> <10.0	<u>Sample 29/74</u> <10.0
Total Lead	<u>Sample 30</u> <10.0	<u>Sample 39/38</u> <10.0	Sample 32/33/34 <10.0	Sample 35/36/37 <10.0
Total Lead	Sample 40 <10.0	Sample 42 <10.0	<u>Sample 44</u> <10.0	<u>Sample 45</u> <10.0
Total Lead	<u>Sample 46</u> <10.0	Sample 47 <10.0	Sample 48 <10.0	<u>Sample 49</u> <10.0
Total Lead	Sample 50 44.9	Sample 51 <10.0	Sample 52 <10.0	Sample 53 <10.0
Total Lead	Sample 54 <10.0	Sample 55 <10.0	Sample 56 <10.0	Sample 57 <10.0
Total Lead	<u>Sample 58</u> <10.0	<u>Sample 59</u> <10.0	<u>Sample 60</u> <10.0	Sample 61 <10.0

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### **TEST RESULTS**

Total Lead	Sample 62 <10.0	<u>Sample 63</u> <10.0	<u>Sample 64</u> <10.0	Sample 65 <10.0
Total Lead	<u>Sample 66</u> <10.0	<u>Sample 67</u> <10.0	<u>Sample 68</u> <10.0	<u>Sample 69</u> <10.0
Total Lead	<u>Sample 70</u> <10.0	<u>Sample 71</u> <10.0	<u>Sample 72</u> <10.0	<u>Sample 73</u> <10.0
Total Lead	<u>Sample 75</u> <10.0	Sample 76 <10.0		

All concentrations expressed in milligrams per kilogram "<" means "less than"

### 1.3.7 TOTAL LEAD CONTENT TEST: SUBSTRATE

Requirement: The submitted samples must meet the Total Lead Limit of 100ppm as per Consumer

Product Safety Improvement Act of 2008

Test method: CPSC-CH-E1001-8.3 Standard operating procedure for determining total Lead (Pb) in

metal children's product (including children's metal jewelry);

CPSC-CH-E1002-8.3 Standard operating procedure for determining total Lead (Pb) in

non-metal children's products.

#### Results:

	Sample 1	Sample 13/14/15	Sample 16/17/18	Sample 19/20/21
	[Second			
	Submission			
	Sample]			
Total Lead	<10.0	<10.0	<10.0	<10.0
	Sample 22/26/27	Sample 22/24/25	Sample 29/21	Sample 20/74
Total Lead	Sample 22/26/27 <10.0	Sample 23/24/25 <10.0	Sample 28/31 <10.0	<u>Sample 29/74</u> <10.0
Total Lead	<10.0	<10.0	<10.0	<10.0
	Sample 30	Sample 39/38	Sample 32/33/34	Sample 35/36/37
Total Lead	<10.0	<10.0	<10.0	<10.0

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REPORT NO: C80451775 DATE:

ADDRESS:

Huang Jin Ji Industrial Zone, Shang Jie Village, QiShi

August 24, 2017

Town, DongGuan City, Guang Dong, China

### **TEST RESULTS**

Total Lead	<u>Sample 40</u> <10.0	<u>Sample 42</u> <10.0	Sample 44 <10.0	Sample 45 <10.0
Total Lead	Sample 46 <10.0	<u>Sample 47</u> <10.0	<u>Sample 48</u> <10.0	<u>Sample 49</u> <10.0
Total Lead	Sample 50 44.9	<u>Sample 51</u> <10.0	Sample 52 <10.0	<u>Sample 53</u> <10.0
Total Lead	<u>Sample 54</u> <10.0	<u>Sample 55</u> <10.0	Sample 56 <10.0	<u>Sample 57</u> <10.0
Total Lead	Sample 58 <10.0	<u>Sample 59</u> <10.0	<u>Sample 60</u> <10.0	<u>Sample 61</u> <10.0
Total Lead	<u>Sample 62</u> <10.0	<u>Sample 63</u> <10.0	<u>Sample 64</u> <10.0	<u>Sample 65</u> <10.0
Total Lead	<u>Sample 66</u> <10.0	<u>Sample 67</u> <10.0	<u>Sample 68</u> <10.0	<u>Sample 69</u> <10.0
Total Lead	Sample 70 <10.0	<u>Sample 71</u> <10.0	Sample 72 <10.0	Sample 73 <10.0
Total Lead	<u>Sample 75</u> <10.0	<u>Sample 76</u> <10.0		

All concentrations expressed in milligrams per kilogram "<" means "less than"

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#### **TEST RESULTS**

#### 1.3.8 TOTAL PHTHALATE TEST

Requirement : DEHP, DBP or BBP content shall not be more than 0.1% by weight in toys and

childcare article.

DINP, DIDP or DNOP content shall not be more than 0.1% by weight in toys and

childcare article which can be placed in the mouth by children.

Test Method : CPSC-CH-C1001-09.3, Standard operating procedure for determination of

phthalates.

Results :

# Sample ID Plasticiser Values (w/w)

	DBP	BBP	DEHP	DNOP	DINP	DIDP
Sample 1	ND	ND	ND	ND	ND	ND
[Second Submissio	n Sample]					
Sample 2	ND	ND	ND	ND	ND	ND
Sample 3	ND	ND	ND	ND	ND	ND
Sample 4	ND	ND	ND	ND	ND	ND
Sample 5	ND	ND	ND	ND	ND	ND
Sample 6	ND	ND	ND	ND	ND	ND
Sample 7	ND	ND	ND	ND	ND	ND
Sample 8	ND	ND	ND	ND	ND	ND
Sample 9	ND	ND	ND	ND	ND	ND
Sample 10	ND	ND	ND	ND	ND	ND
Sample 11	ND	ND	ND	ND	ND	ND
Sample 12	ND	ND	ND	ND	ND	ND
Sample 23/24/25	ND	ND	ND	ND	ND	ND
Sample 39	ND	ND	ND	ND	ND	ND
Sample 40	ND	ND	ND	ND	ND	ND

Remarks: 1) Detection Limit for each phthalate = 0.005%

2) ND= not detected

Key : DBP = Di-butyl phthalate DEHP = Di (2-Ethylhexyl) phthalate

BBP = Benzyl butyl phthalate DINP = Di-"isonomy" phthalate DIDP = Di-"isodecyl" phthalate DNOP = Di -n-octal phthalate

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### **TEST RESULTS**

#### 2. CANADA

### 2.1 MECHANICAL AND PHYSICAL TEST

AS PER CANADA TOYS REGULATIONS SOR/2011-17 AND REGULATIONS AMENDING TOYS REGULATION SOR/2016-195 &SOR/2016-302

The following clauses are identified to be applicable:

Age grading for testing : Ages 3+

Samples Quantity : 5 style (s) x 1 piece(s)

<u>Clause</u>	<u>Test Items</u>	<u>Assessment</u>
8	Exposed Metal Edges	P
9	Ends	P
10	Exposed Plastic Parts	P
11	Exposed Wooden Surfaces, Edges And Corners	P
13	Fasteners	P
19	Impulsive noise	P

Remark: P = Pass

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#### **TEST RESULTS**

#### 2.2 FLAMMABILITY TEST

2.2.1 AS PER CANADA TOYS REGULATIONS SOR/2011-17 AND REGULATIONS AMENDING TOYS REGULATIONS SOR/2016-195 &SOR/2016-302 SECTION 21 (CELLULOSE NITRATE AND CELLULOID)

Requirement: Celluloid (cellulose nitrate) and materials with the same behaviour in fire

(except when used in varnish or paint) shall not be used in the manufacture of toys.

Results: The submitted sample(s) complied with this requirement.

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### **TEST RESULTS**

#### 2.3 CHEMICAL TESTS:

# 2.3.1 HEAVY METAL CONTENT TEST: CANADA TOYS REGULATION SOR/2011-17 AND REGULATIONS AMENDING TOYS REGULATIONS SOR/2016-195 &SOR/2016-302

Requirement : Surface coating applied to Toys shall comply with heavy metal requirement as

below table.

#### Results:

	Total	Total	Soluble	Soluble	Soluble	Soluble	Soluble
Elements	Lead	Mercury	Antimony	Arsenic	Barium	Cadmium	Selenium
Limits	< 90	None	< 1000	< 1000	< 1000	< 1000	< 1000
Sample 2	<10.0	**N/D	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0
Sample 3	<10.0	**N/D	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0
Sample 4	<10.0	**N/D	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0
Sample 5	<10.0	**N/D	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0
Sample 6	<10.0	**N/D	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0
Sample 7	21.9	**N/D	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0
Sample 8	<10.0	**N/D	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0
Sample 9	<10.0	**N/D	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0
Sample 10	<10.0	**N/D	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0
Sample 11	<10.0	**N/D	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0
Sample 12	<10.0	**N/D	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0

All concentrations expressed in milligrams per kilogram "<" means "less than" "N/D" means "None Detected" \*\*Detection Limit is 10.0 milligrams per kilogram.

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#### **TEST RESULTS**

#### 2.3.2 TOTAL PHTHALATE TEST: CANADA PHTHALATES REGULATION SOR 2016-188

Criteria : The submitted sample shall comply with Canada phthalate regulation.

DEHP, DBP and BBP: Vinyl used in Toy and child care article shall not contain

more than 1000 mg/Kg of DEHP, DBP or BBP;

DINP, DIDP and DNOP: Vinyl used in any part of toy and child care article that can, in reasonably foreseeable manner, be placed the mouth of child of 4 years of

age shall not contain more than 1000 mg/Kg of DINP, DIDP or DNOP

Method : Reference to Canada Product safety reference manual, Book 5, Part B, Method C-

34, Determination of phthalates in polyvinyl chloride and following by Gas

Chromatography-Mass Spectrometry (GC-MS) analysis.

Results :

# Sample ID Plasticiser Values (w/w)

DBP	BBP	DEHP	DNOP	DINP	DIDP
ND	ND	ND	ND	ND	ND
on Sample]					
ND	ND	ND	ND	ND	ND
ND	ND	ND	ND	ND	ND
ND	ND	ND	ND	ND	ND
ND	ND	ND	ND	ND	ND
ND	ND	ND	ND	ND	ND
ND	ND	ND	ND	ND	ND
ND	ND	ND	ND	ND	ND
ND	ND	ND	ND	ND	ND
ND	ND	ND	ND	ND	ND
ND	ND	ND	ND	ND	ND
ND	ND	ND	ND	ND	ND
ND	ND	ND	ND	ND	ND
ND	ND	ND	ND	ND	ND
ND	ND	ND	ND	ND	ND
	on Sample]  ND  ND  ND  ND  ND  ND  ND  ND  ND  N	ND ND on Sample]  ND	ND         ND         ND           on Sample]         ND         ND         ND           ND         ND         ND         ND	ND         ND         ND           on Sample]         ND         ND         ND           ND         ND         ND         ND	ND         ND         ND         ND           Sample]         ND         ND         ND         ND           ND         ND         ND         ND         ND           ND         ND         ND         ND         ND         ND           ND         ND         ND         ND         ND         ND         ND           ND<

Remarks: 1) Detection Limit for each phthalate = 0.005%

2) ND= not detected

3) All concentrations expressed in milligrams per kilogram

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#### **TEST RESULTS**

Key : DBP = Dibutyl Phthalate DEHP = Di (2-Ethylhexyl) Phthalate

BBP = Benzyl butyl Phthalate DINP = Di-"isononyl" phthalate DIDP = Di-"isodecyl" phthalate DNOP = Di -n-octyl phthalate

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CLIENT: Carpenters Manufactory Limited C80451775 REPORT NO: ADDRESS: Huang Jin Ji Industrial Zone, Shang Jie Village, QiShi DATE: August 24, 2017

Town, DongGuan City, Guang Dong, China

#### **TEST RESULTS**

#### **AUSTRALIA**

### 3.1 MECHANICAL AND PHYSICAL TEST

### AS PER AUSTRALIAN/NEW ZEALAND STANDARD ON SAFETY OF TOYS AS/NZS 8124.1:2016 SAFETY ASPECTS RELATED TO MECHANICAL AND PHYSICAL PROPERTIES

The following clauses are identified to be applicable:

Age grading for testing : Ages 3+

**Samples Quantity :** 5 style (s) x 1 piece(s)

<u>Clause</u>	<u>Test Items</u>	<u>Assessment</u>
4.1	Normal use	P
4.2	Reasonably foreseeable abuse	P
4.3	Material	P
4.6	Edges	P
4.7	Points	P
ANNEX B	Safety labeling guidelines and manufacturer's markings	P

Remark: P = Pass

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CLIENT: Carpenters Manufactory Limited REPORT NO: C80451775

ADDRESS: Huang Jin Ji Industrial Zone, Shang Jie Village, QiShi DATE: August 24, 2017

Town, DongGuan City, Guang Dong, China

### **TEST RESULTS**

#### 3.2 FLAMMABILITY TEST

AS PER AUSTRALIAN/NEW ZEALAND STANDARD ON SAFETY OF TOYS AS/NZS ISO 8124.2:2016 CLAUSE 4.1 GENERAL REQUIREMENT (CELLULOSE NITRATE):

Requirement: Celluloid (cellulose nitrate) and materials with the same behaviour in fire (except

when used in varnish or paint) shall not be used in the manufacture of toys.

Results: The submitted sample(s) complied with this requirement.

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CLIENT: Carpenters Manufactory Limited REPORT NO: C80451775

ADDRESS: Huang Jin Ji Industrial Zone, Shang Jie Village, QiShi DATE: August 24, 2017

Town, DongGuan City, Guang Dong, China

### **TEST RESULTS**

### 3.3 CHEMICAL TESTS:

#### 3.3.1 MIGRATION OF CERTAIN ELEMENTS: AS/NZS ISO 8124.3:2012/AMDT 1:2016

Results:								
Elements	Antimony	Arsenic	Barium	Cadmium	Chromium	Lead	Mercury	Selenium
Limits	< 60	< 25	< 1000	< 75	< 60	< 90	< 60	< 500
Sample 1	< 6.0	< 2.5	9.0	< 6.0	< 6.0	< 6.0	< 6.0	< 6.0
[Second Subm	ission Sample]							
Sample 2	< 6.0	< 2.5	< 6.0	< 6.0	< 6.0	< 6.0	< 6.0	< 6.0
Sample 3	< 6.0	< 2.5	< 6.0	< 6.0	< 6.0	< 6.0	< 6.0	< 6.0
Sample 4	< 6.0	< 2.5	< 6.0	< 6.0	< 6.0	< 6.0	< 6.0	< 6.0
Sample 5	< 6.0	< 2.5	< 6.0	< 6.0	< 6.0	< 6.0	< 6.0	< 6.0
Sample 6	< 6.0	< 2.5	< 6.0	< 6.0	< 6.0	< 6.0	< 6.0	< 6.0
Sample 7	< 6.0	< 2.5	< 6.0	< 6.0	< 6.0	7.5	< 6.0	< 6.0
Sample 8	< 6.0	< 2.5	< 6.0	< 6.0	< 6.0	< 6.0	< 6.0	< 6.0
Sample 9	< 6.0	< 2.5	< 6.0	< 6.0	< 6.0	< 6.0	< 6.0	< 6.0
Sample 10	< 6.0	< 2.5	< 6.0	< 6.0	< 6.0	< 6.0	< 6.0	< 6.0
Sample 11	< 6.0	< 2.5	< 6.0	< 6.0	< 6.0	< 6.0	< 6.0	< 6.0
Sample 12	< 6.0	< 2.5	< 6.0	< 6.0	< 6.0	< 6.0	< 6.0	< 6.0
Sample 13	< 6.0	< 2.5	< 6.0	< 6.0	< 6.0	< 6.0	< 6.0	< 6.0
Sample 14	< 6.0	< 2.5	< 6.0	< 6.0	< 6.0	< 6.0	< 6.0	< 6.0
Sample 15	< 6.0	< 2.5	< 6.0	< 6.0	< 6.0	< 6.0	< 6.0	< 6.0
Sample 16	< 6.0	< 2.5	< 6.0	< 6.0	< 6.0	< 6.0	< 6.0	< 6.0
Sample 17	< 6.0	< 2.5	< 6.0	< 6.0	< 6.0	< 6.0	< 6.0	< 6.0
Sample 18	< 6.0	< 2.5	< 6.0	< 6.0	< 6.0	< 6.0	< 6.0	< 6.0
Sample 19	< 6.0	< 2.5	< 6.0	< 6.0	< 6.0	< 6.0	< 6.0	< 6.0
Sample 20	< 6.0	< 2.5	< 6.0	< 6.0	< 6.0	< 6.0	< 6.0	< 6.0
Sample 21	< 6.0	< 2.5	< 6.0	< 6.0	< 6.0	< 6.0	< 6.0	< 6.0
Sample 22	< 6.0	< 2.5	< 6.0	< 6.0	< 6.0	< 6.0	< 6.0	< 6.0
Sample 23	< 6.0	< 2.5	< 6.0	< 6.0	< 6.0	< 6.0	< 6.0	< 6.0
Sample 24	< 6.0	< 2.5	< 6.0	< 6.0	< 6.0	< 6.0	< 6.0	< 6.0
Sample 25	< 6.0	< 2.5	< 6.0	< 6.0	< 6.0	< 6.0	< 6.0	< 6.0
Sample 26	< 6.0	< 2.5	11.0	< 6.0	< 6.0	< 6.0	< 6.0	< 6.0
Sample 27	< 6.0	< 2.5	< 6.0	< 6.0	< 6.0	< 6.0	< 6.0	< 6.0
Sample 28	< 6.0	< 2.5	< 6.0	< 6.0	< 6.0	< 6.0	< 6.0	< 6.0
Sample 31	< 6.0	< 2.5	< 6.0	< 6.0	< 6.0	< 6.0	< 6.0	< 6.0
Sample 32	< 6.0	< 2.5	< 6.0	< 6.0	< 6.0	< 6.0	< 6.0	< 6.0
Sample 33	< 6.0	< 2.5	< 6.0	< 6.0	< 6.0	< 6.0	< 6.0	< 6.0

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CLIENT: Carpenters Manufactory Limited REPORT NO: C80451775

ADDRESS: Huang Jin Ji Industrial Zone, Shang Jie Village, QiShi DATE: August 24, 2017

Town, DongGuan City, Guang Dong, China

### **TEST RESULTS**

Results:								
Elements	Antimony	Arsenic	Barium	Cadmium	Chromium	Lead	Mercury	Selenium
Limits	< 60	< 25	< 1000	< 75	< 60	< 90	< 60	< 500
Sample 34	< 6.0	< 2.5	< 6.0	< 6.0	< 6.0	< 6.0	< 6.0	< 6.0
Sample 35	< 6.0	< 2.5	< 6.0	< 6.0	< 6.0	< 6.0	< 6.0	< 6.0
Sample 36	< 6.0	< 2.5	< 6.0	< 6.0	< 6.0	< 6.0	< 6.0	< 6.0
Sample 37	< 6.0	< 2.5	< 6.0	< 6.0	< 6.0	< 6.0	< 6.0	< 6.0
Sample 38	< 6.0	< 2.5	< 6.0	< 6.0	< 6.0	< 6.0	< 6.0	< 6.0
Sample 39	< 6.0	< 2.5	< 6.0	< 6.0	< 6.0	< 6.0	< 6.0	< 6.0
Sample 40	< 6.0	< 2.5	< 6.0	< 6.0	< 6.0	< 6.0	< 6.0	< 6.0
Sample 41	< 6.0	< 2.5	10.5	< 6.0	< 6.0	< 6.0	< 6.0	< 6.0
Sample 42	< 6.0	< 2.5	< 6.0	< 6.0	< 6.0	< 6.0	< 6.0	< 6.0
Sample 43	< 6.0	< 2.5	< 6.0	< 6.0	< 6.0	< 6.0	< 6.0	< 6.0

#### Remark:

- 1. Method for determination of each soluble element present
  - a) Antimony, Arsenic, Barium, Cadmium, Chromium, Lead, Mercury and Selenium are determined by Inductively Coupled Plasma Optical Emission Spectroscopy.

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CLIENT: Carpenters Manufactory Limited REPORT NO: C80451775

ADDRESS: Huang Jin Ji Industrial Zone, Shang Jie Village, QiShi DATE: August 24, 2017

Town, DongGuan City, Guang Dong, China

#### TEST RESULTS

**4.** EU

### 4.1 MECHANICAL AND PHYSICAL TEST

#### AS PER EUROPEAN STANDARDS ON SAFETY OF TOYS EN 71-1: 2014

The following clauses are identified to be applicable:

Age grading for testing : Ages 3+

Samples Quantity : 5 style (s) x 1 piece(s)

<u>Clause</u>	<u>Test Items</u>	<u>Assessment</u>
4.1	Material Cleanliness	P
4.7	Edges	P
4.8	Points and metallic wires	P
4.20	Acoustics	P
Remark:	P = Pass	

Warnings and safety instructions shall be written in the languages easily understood by consumers of the country in which the toy is to be sold. Only English version was reviewed.

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CLIENT: Carpenters Manufactory Limited REPORT NO: C80451775

ADDRESS: Huang Jin Ji Industrial Zone, Shang Jie Village, QiShi DATE: August 24, 2017

Town, DongGuan City, Guang Dong, China

#### **TEST RESULTS**

#### 4.2 FLAMMABILITY TEST

# AS PER EUROPEAN STANDARD ON SAFETY OF TOYS EN 71-2:2011+ A1:2014 SECTION 4.1 GENERAL REQUIREMENT (CELLULOSE NITRATE):

Requirement: Celluloid (cellulose nitrate), except when used in varnish, paint or glue, or in balls of

the type used for table tennis or similar games, and materials with the same behaviour

in fire as celluloid, shall not be used in the manufacture of toys.

Results: The submitted sample(s) complied with this requirement.

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CLIENT: Carpenters Manufactory Limited REPORT NO: C80451775

ADDRESS: Huang Jin Ji Industrial Zone, Shang Jie Village, QiShi DATE: August 24, 2017

Town, DongGuan City, Guang Dong, China

### **TEST RESULTS**

Zinc

### 4.3 CHEMICAL TESTS:

### 4.3.1 ELEMENTS MIGRATION WITH REFERENCE TO 2009/48/EC AND ITS AMENDMENT

Test Method: EN71-3: 2013+A1:2014 Migration of certain elements

Results:						
Elements <sup>1</sup>	<u>Limits</u>	Sample 1	Sample 2	Sample 3	Sample 4	Sample 5
	(Scraped off material)	[Second				
		Submission				
	<b>7</b> .50	Sample]	<b>~</b> 0	<b>~</b> 0	<b>~</b> 0	<b>~</b> 0
Antimony	560	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Arsenic	47	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5
Barium	18750	9.0	< 5.0	< 5.0	< 5.0	< 5.0
Cadmium	17	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Chromium III <sup>2</sup>	460	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
Chromium VI <sup>2</sup>	0.2	$< 0.2^{\Delta}$				
Lead	160	< 5.0	6.0	< 5.0	< 5.0	< 5.0
Mercury	94	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Selenium	460	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Aluminum	70,000	< 50	< 50	< 50	70.0	< 50
Boron	15,000	< 50	< 50	< 50	< 50	< 50
Cobalt	130	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Copper	7700	< 50	< 50	< 50	< 50	< 50
Manganese	15,000	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Nickel	930	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Strontium	56,000	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Tin	180,000	<4.0	<4.0	<4.0	<4.0	<4.0
Organic Tin <sup>3</sup>	12					
(Expressed as						
TBT)						
/						

< 50

5850.0

6750.0

5300.0

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46,000

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SZ-FAF-001 (2013-04-10)

6500.0





CLIENT: Carpenters Manufactory Limited REPORT NO: C80451775 ADDRESS:

Huang Jin Ji Industrial Zone, Shang Jie Village, QiShi DATE: August 24, 2017

Town, DongGuan City, Guang Dong, China

### TEST RESULTS

Results:						
Elements <sup>1</sup>	<u>Limits</u>	Sample 6	Sample 7	Sample 8	Sample 9	Sample 10
	(Scraped off material)	-	-	-	-	-
Antimony	560	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Arsenic	47	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5
Barium	18750	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Cadmium	17	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Chromium III <sup>2</sup>	460	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
Chromium VI <sup>2</sup>	0.2	$< 0.2^{\Delta}$				
Lead	160	< 5.0	7.5	< 5.0	< 5.0	< 5.0
Mercury	94	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Selenium	460	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Aluminum	70,000	60.0	< 50	< 50	55.0	< 50
Boron	15,000	< 50	< 50	< 50	< 50	< 50
Cobalt	130	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Copper	7700	< 50	< 50	< 50	< 50	< 50
Manganese	15,000	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Nickel	930	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Strontium	56,000	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Tin	180,000	<4.0	<4.0	<4.0	<4.0	<4.0
Organic Tin <sup>3</sup>	12					
(Expressed as						
TBT)						
Zinc	46,000	7450.0	6400.0	6300.0	5800.0	5550.0

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ADDRESS:



# **TEST REPORT**

CLIENT: Carpenters Manufactory Limited

REPORT NO: C8

DATE:

C80451775

Huang Jin Ji Industrial Zone, Shang Jie Village, QiShi Town, DongGuan City, Guang Dong, China

August 24, 2017

### TEST RESULTS

Results:						
Elements <sup>1</sup>	<u>Limits</u>	Sample 11	Sample 12	Sample 13	Sample 14	Sample 15
	(Scraped off material)	-	-	-	-	-
Antimony	560	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Arsenic	47	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5
Barium	18750	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Cadmium	17	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Chromium III <sup>2</sup>	460	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
Chromium VI <sup>2</sup>	0.2	$< 0.2^{\Delta}$				
Lead	160	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Mercury	94	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Selenium	460	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Aluminum	70,000	< 50	< 50	< 50	< 50	< 50
Boron	15,000	< 50	< 50	< 50	< 50	< 50
Cobalt	130	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Copper	7700	< 50	< 50	< 50	< 50	< 50
Manganese	15,000	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Nickel	930	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Strontium	56,000	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Tin	180,000	<4.0	<4.0	<4.0	<4.0	<4.0
Organic Tin <sup>3</sup>	12					
(Expressed as						
TBT)						
Zinc	46,000	5800.0	5250.0	< 50	< 50	< 50
	- ,					

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CLIENT: Carpenters Manufactory Limited

REPORT NO: C80451775

ADDRESS: Huang Jin Ji Industrial Zone, Shang Jie Village, QiShi DATE: August 24, 2017

Town, DongGuan City, Guang Dong, China

### TEST RESULTS

Results:						
Elements <sup>1</sup>	<u>Limits</u>	Sample 16	Sample 17	Sample 18	Sample 19	Sample 20
	(Scraped off material)					
Antimony	560	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Arsenic	47	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5
Barium	18750	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Cadmium	17	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Chromium III <sup>2</sup>	460	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
Chromium VI <sup>2</sup>	0.2	$< 0.2^{\Delta}$				
Lead	160	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Mercury	94	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Selenium	460	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Aluminum	70,000	< 50	< 50	< 50	< 50	< 50
Boron	15,000	< 50	< 50	< 50	< 50	< 50
Cobalt	130	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Copper	7700	< 50	< 50	< 50	< 50	< 50
Manganese	15,000	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Nickel	930	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Strontium	56,000	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Tin	180,000	<4.0	<4.0	<4.0	<4.0	<4.0
Organic Tin <sup>3</sup>	12					
(Expressed as						
TBT)						
Zinc	46,000	< 50	< 50	< 50	< 50	< 50

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ADDRESS:





# **TEST REPORT**

CLIENT: Carpenters Manufactory Limited

REPORT NO:

DATE:

C80451775 August 24, 2017

Huang Jin Ji Industrial Zone, Shang Jie Village, QiShi

Town, DongGuan City, Guang Dong, China

### TEST RESULTS

Results:						
Elements <sup>1</sup>	<u>Limits</u>	Sample 21	Sample 22	Sample 23	Sample 24	Sample 25
	(Scraped off material)					
Antimony	560	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Arsenic	47	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5
Barium	18750	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Cadmium	17	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Chromium III <sup>2</sup>	460	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
Chromium VI <sup>2</sup>	0.2	$< 0.2^{\Delta}$				
Lead	160	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Mercury	94	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Selenium	460	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Aluminum	70,000	< 50	< 50	< 50	< 50	< 50
Boron	15,000	< 50	< 50	< 50	< 50	< 50
Cobalt	130	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Copper	7700	< 50	< 50	< 50	< 50	< 50
Manganese	15,000	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Nickel	930	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Strontium	56,000	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Tin	180,000	<4.0	<4.0	<4.0	<4.0	<4.0
Organic Tin <sup>3</sup>	12					
(Expressed as						
TBT)						
Zinc	46,000	< 50	< 50	< 50	< 50	< 50

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CLIENT: Carpenters Manufactory Limited

REPORT NO:

C80451775

ADDRESS: Huang Jin Ji Industrial Zone, Shang Jie Village, QiShi Town, DongGuan City, Guang Dong, China

DATE: August 24, 2017

### TEST RESULTS

Results:						
Elements <sup>1</sup>	<u>Limits</u>	Sample 26	Sample 27	Sample 28	Sample 31	Sample 32
	(Scraped off material)	-	-	-	-	-
Antimony	560	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Arsenic	47	< 2.5	< 2.5	< 2.5	<2.5	< 2.5
Barium	18750	11.0	< 5.0	< 5.0	< 5.0	< 5.0
Cadmium	17	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Chromium III <sup>2</sup>	460	< 0.2	0.595	< 0.2	< 0.2	< 0.2
Chromium VI <sup>2</sup>	0.2	$< 0.2^{\Delta}$	< 0.2	$< 0.2^{\Delta}$	$< 0.2^{\Delta}$	$< 0.2^{\Delta}$
Lead	160	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Mercury	94	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Selenium	460	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Aluminum	70,000	< 50	< 50	< 50	< 50	< 50
Boron	15,000	< 50	< 50	< 50	< 50	< 50
Cobalt	130	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Copper	7700	< 50	< 50	< 50	< 50	< 50
Manganese	15,000	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Nickel	930	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Strontium	56,000	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Tin	180,000	<4.0	<4.0	<4.0	<4.0	< 4.0
Organic Tin <sup>3</sup>	12					
(Expressed as						
TBT)						
Zinc	46,000	< 50	< 50	< 50	< 50	< 50

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CLIENT: Carpenters Manufactory Limited ADDRESS:

REPORT NO: C80451775 Huang Jin Ji Industrial Zone, Shang Jie Village, QiShi DATE: August 24, 2017

中国认可 检测 TESTING

Town, DongGuan City, Guang Dong, China

### TEST RESULTS

Results:						
Elements <sup>1</sup>	<u>Limits</u>	Sample 33	Sample 34	Sample 35	Sample 36	Sample 37
	(Scraped off material)	-	-	-	-	-
Antimony	560	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Arsenic	47	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5
Barium	18750	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Cadmium	17	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Chromium III <sup>2</sup>	460	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
Chromium VI <sup>2</sup>	0.2	$< 0.2^{\Delta}$				
Lead	160	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Mercury	94	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Selenium	460	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Aluminum	70,000	< 50	< 50	< 50	< 50	< 50
Boron	15,000	< 50	< 50	< 50	< 50	< 50
Cobalt	130	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Copper	7700	< 50	< 50	< 50	< 50	< 50
Manganese	15,000	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Nickel	930	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Strontium	56,000	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Tin	180,000	<4.0	<4.0	<4.0	<4.0	<4.0
Organic Tin <sup>3</sup>	12					
(Expressed as						
TBT)						
Zinc	46,000	< 50	< 50	< 50	< 50	< 50
*	,					

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中国认可

CLIENT: Carpenters Manufactory Limited REPORT NO: C80451775

DATE:

ADDRESS: Huang Jin Ji Industrial Zone, Shang Jie Village, QiShi August 24, 2017

Town, DongGuan City, Guang Dong, China

### TEST RESULTS

Results:						
Elements <sup>1</sup>	<u>Limits</u>	Sample 38	Sample 39	Sample 40	Sample 41	Sample 42
	(Scraped off material)					
Antimony	560	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Arsenic	47	< 2.5	< 2.5	< 2.5	< 2.5	<2.5
Barium	18750	< 5.0	< 5.0	< 5.0	10.5	< 5.0
Cadmium	17	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Chromium III <sup>2</sup>	460	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
Chromium VI <sup>2</sup>	0.2	$< 0.2^{\Delta}$				
Lead	160	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Mercury	94	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Selenium	460	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Aluminum	70,000	< 50	< 50	< 50	< 50	< 50
Boron	15,000	< 50	< 50	< 50	< 50	< 50
Cobalt	130	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Copper	7700	< 50	< 50	< 50	< 50	< 50
Manganese	15,000	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Nickel	930	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Strontium	56,000	< 5.0	< 5.0	18.5	< 5.0	8.5
Tin	180,000	<4.0	<4.0	<4.0	<4.0	<4.0
Organic Tin <sup>3</sup>	12					
(Expressed as						
TBT)						
Zinc	46,000	< 50	< 50	< 50	< 50	< 50
	·					

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CLIENT: Carpenters Manufactory Limited REPORT NO: C80451775

ADDRESS: Huang Jin Ji Industrial Zone, Shang Jie Village, QiShi DATE: August 24, 2017

Town, DongGuan City, Guang Dong, China

### TEST RESULTS

Results:		
Elements <sup>1</sup>	<u>Limits</u>	Sample 43
	(Scraped off material)	-
Antimony	560	< 5.0
Arsenic	47	< 2.5
Barium	18750	< 5.0
Cadmium	17	< 5.0
Chromium III <sup>2</sup>	460	< 0.2
Chromium VI <sup>2</sup>	0.2	$< 0.2^{\Delta}$
Lead	160	< 5.0
Mercury	94	< 5.0
Selenium	460	< 5.0
Aluminum	70,000	< 50
Boron	15,000	< 50
Cobalt	130	< 5.0
Copper	7700	< 50
Manganese	15,000	< 5.0
Nickel	930	< 5.0
Strontium	56,000	< 5.0
Tin	180,000	<4.0
Organic Tin <sup>3</sup>	12	
(Expressed as		
TBT)		
Zinc	46,000	< 50

All concentrations expressed in milligrams per kilogram "<" means "less than"

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CLIENT: Carpenters Manufactory Limited REPORT NO: C80451775

ADDRESS: Huang Jin Ji Industrial Zone, Shang Jie Village, QiShi DATE: August 24, 2017

Town, DongGuan City, Guang Dong, China

### **TEST RESULTS**

#### **REMARK:**

- Heavy Metals Content are Determined by ICP-MS (Induced Couple Plasma Mass Spectrometry) / ICP-OES (Induced Couple Plasma Optical Emission Spectroscopy)
- If the chromium content of the tested sample does not exceed the limits of chromium III and/or chromium VI, it is deemed to comply on the respective migration requirements of chromium III and/or chromium VI under 2009/48/EC. Otherwise, the compliance on the migration requirements of the individual chromium III and/or chromium VI should be confirmed by further speciation techniques.
  - #: The chromium VI content is determined by LC-ICP-MS
- 3. If the Organic Tin content of the tested sample projected by the tin content does not exceed the limit of organicin, it is deemed to comply on the respective migration requirement of Organic Tin under 2009/48/EC and market with "--". Otherwise, the compliance on the migration requirement of Organic Tin is confirmed by GCMS analysis with derivatisation
- 4.  $\Delta$ : Chromium VI data is based on total Chromium

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CLIENT: Carpenters Manufactory Limited REPORT NO: C80451775

ADDRESS: Huang Jin Ji Industrial Zone, Shang Jie Village, QiShi DATE: August 24, 2017

Town, DongGuan City, Guang Dong, China

### **TEST RESULTS**

# 4.3.2 TOTAL CADMIUM CONTENT AND EUROPEAN REACH REGULATION ANNEX XVII: WET-ASHING DIGESTION AND DETECTED WITH AAS/ICP & MICROWAVE DIGESTION AND DETECTED WITH AAS/ICP

Results:

Element	Total Cadmium
Limit	< 100
Sample 1	< 5.0
[Second Submission Samp	ple]
Sample 2	< 5.0
Sample 3	< 5.0
Sample 4	< 5.0
Sample 5	< 5.0
Sample 6	< 5.0
Sample 7	< 5.0
Sample 8	< 5.0
Sample 9	< 5.0
Sample 10	< 5.0
Sample 11	< 5.0
Sample 12	< 5.0
Sample 13/14/15	< 5.0
Sample 16/17/18	< 5.0
Sample 19/20/21	< 5.0
Sample 22/26/27	< 5.0
Sample 23/24/25	< 5.0
Sample 28/31	< 5.0
Sample 29/74	< 5.0
Sample 30/39/38	< 5.0
Sample 32/33/34	< 5.0
Sample 35/36/37	< 5.0
Sample 40	< 5.0

All concentrations expressed in milligrams per kilogram "<" means "less than"

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CLIENT: Carpenters Manufactory Limited REPORT NO: C80451775

ADDRESS: Huang Jin Ji Industrial Zone, Shang Jie Village, QiShi DATE: August 24, 2017

Town, DongGuan City, Guang Dong, China

### **TEST RESULTS**

### 4.3.3 TOTAL PHTHALATE TEST AND EUROPEAN REACH REGULATION ANNEX XVII

**BBP** 

ND

ND

ND

ND

ND

ND

ND

ND

ND

Test Method : EN 14372: 2004

Requirement : DEHP, DBP & BBP content shall not be more than 0.1% by weight in toys and

children article.

**DBP** 

ND

ND

ND

ND

ND

ND

ND

ND

ND

DINP, DIDP & DNOP content shall not be more than 0.1% by weight in toys and

Plasticiser Values (w/w)

**DNOP** 

ND

ND

ND

ND

ND

ND

ND

ND

DINP

ND

ND

ND

ND

ND

ND

ND

ND

DIDP

ND

ND

ND

ND

ND

ND

ND

ND

children article that can be placed in the mouth by children.

**DEHP** 

Results :

Sample ID

Sample 22/26/27

Sample 23/24/25

Sample 32/33/34

Sample 35/36/37

Sample 28/31

Sample 38

Sample 39

Sample 40

Sample 74/29

#### Sample 1 ND ND ND ND ND ND [Second Submission Sample] Sample 2 ND ND ND ND ND ND Sample 3 ND ND ND ND ND ND Sample 4 ND ND ND ND ND ND Sample 5 ND ND ND ND ND ND Sample 6 ND ND ND ND ND ND Sample 7 ND ND ND ND ND ND Sample 8 ND ND ND ND ND ND Sample 9 ND ND ND ND ND ND Sample 10 ND ND ND ND ND ND Sample 11 ND ND ND ND ND ND Sample 12 ND ND ND ND ND ND Sample 13/14/15 ND ND ND ND ND ND Sample 16/17/18 ND ND ND ND ND ND Sample 19/20/21 ND ND ND ND ND ND

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CLIENT: Carpenters Manufactory Limited REPORT NO: C80451775

ADDRESS: Huang Jin Ji Industrial Zone, Shang Jie Village, QiShi DATE: August 24, 2017

Town, DongGuan City, Guang Dong, China

### **TEST RESULTS**

Remarks: 1) Detection Limit for each phthalate = 0.005%

2) ND = not detected

Key : DBP = Di-butyl phthalate DNOP = Di-n-octyl phthalate

BBP = Butyl-benzyl phthalate DINP = Di-iso-nonyl phthalate DEHP = Di-(2-ethyl-hexyl) phthalate DIDP = Di-iso-decyl phthalate

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CLIENT: Carpenters Manufactory Limited REPORT NO: C80451775

ADDRESS: Huang Jin Ji Industrial Zone, Shang Jie Village, QiShi DATE: August 24, 2017

Transparent soft plastic (feet of MK05250)

Town, DongGuan City, Guang Dong, China

#### **TEST RESULTS**

### Key to sample(s):

Sample 1

Sample 2 Bright red coating (A1Y) (all styles) Sample 3 Orange coating (A2Y) (MK04482, MK04154) Sample 4 Light yellow coating (A3Y) (MK05694, MK04482, ME09609, MK04154) Sample 5 Dark green coating (A5Y) (all styles) = Sample 6 Light green coating (A6Y) (MK04482, MK05250, MK04154) Sample 7 Dark blue coating (A7Y) (MK05694, MK04482, MK04154, ME09609) Sample 8 Light blue coating (A8Y) (MK04482) Sample 9 Grey coating (A15Y) (MK04482, MK05250) Sample 10 White coating (A16Y (all styles) Sample 11 Black coating (A19Y) (credit card of MK04154) Sample 12 Clear lacquer (A21Y) (all styles) Sample 13 Light flesh color plastic (hour hand/minute hand of MK05694 & MK05250)

Sample 14 = Blue plastic (screws/nuts/bolts of MK05694)
Sample 15 = Matt-blue plastic (gears of MK05694)
Sample 16 = Green plastic (screws/nuts of MK05694)
Sample 17 = Light green plastic (gear of MK05694)
Sample 18 = Yellow plastic (screw/nuts/bolt of MK05694)
Sample 19 = Light yellow plastic (gear of MK05694)

Sample 19 = Light yellow plastic (gear of MK05694)
Sample 20 = Red plastic (screws/nuts/bolt of MK05694)
Sample 21 = Light red plastic (gears of MK05694)

Sample 22 = Flesh color plastic (screwdrivers/hammer of MK05694)

Sample 23 = Blue soft plastic (screwdriver of MK05694)
Sample 24 = Yellow soft plastic (screwdriver of MK05694)
Sample 25 = Bod soft plastic (hammer of MK05694)

Sample 25 = Red soft plastic (hammer of MK05694)

Sample 26 = Dark red plastic (hour hand/minute hand of MK04482)

Sample 27 = White plastic (basin of MK05250)

Sample 28 = Transparent plastic (fastener of door of MK05250)

Sample 29 = White foam (inside of sand clock of ME09609) (inaccessible)

Sample 30 = Silvery metal (big screw for gear case on back of body of ME09609)

Sample 31 = Orange plastic (keys for cash register of MK04154)

Sample 32 = Deep brown plastic (holder of tie for scan head of cash register of MK04154)

Sample 33 = Bright white plastic (credit card of MK04154)

Sample 34 = Pale flesh color plastic (screws & nuts on corner of body of ME09609)

Sample 35 = Bright red plastic (hour hand/minute hand of ME09609)

Sample 36 = Transparent plastic (sand clock of ME09609)

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CLIENT: Carpenters Manufactory Limited REPORT NO: C80451775
ADDRESS: Huang Jin Ji Industrial Zone, Shang Jie Village, QiShi DATE: August 24, 2017

Town, DongGuan City, Guang Dong, China

### **TEST RESULTS**

Sample 37	=	White plastic (round fastener on back of body of ME09609)
Sample 38	=	Deep flesh color plastic (gear case & gears on back of body of ME09609)
Sample 39	=	Transparent soft plastic (spiral binding for time cards of ME09609)
Sample 40	=	White paper card with transparent plastic film and bright red/dark green/dark blue printings (time cards of ME09609)
Sample 41	=	White code (tie for scan head of cash register of MK04154)
Sample 42	=	Beige plywood (all styles)
Sample 43	=	Brown wood (MK05694, MK05250, MK04154, ME09609)
Sample 44	=	Silvery metal (big screw on body of MK05694)
Sample 45	=	Silvery metal (small screw on back of body of MK05694)
Sample 46	=	Silvery metal (big bolt for tap of MK05250)
Sample 47	=	Silvery metal (small screw for tap of MK05250)
Sample 48	=	Silvery metal (screw for basin of MK05250)
Sample 49	=	Silvery metal (screw for package tray of MK05250)
Sample 50	=	Silvery metal (screw on top plate of MK05250)
Sample 51	=	Silvery metal (bolt for handle of door of MK05250)
Sample 52	=	Silvery metal (screw for fastener of door of MK05250)
Sample 53	=	Silvery metal (metal plate for door of MK05250)
Sample 54	=	Silvery metal (rivet joint of metal plate for door of MK05250)
Sample 55	=	Silvery metal (screw for side tray of MK05250)
Sample 56	=	Silvery metal (screw for stand of side tray of MK05250)
Sample 57	=	Silvery metal (screw for feet of MK05250)
Sample 58	=	Silvery metal (body of flat pan & bowl of MK05250)
Sample 59	=	Silvery metal (handle of flat pan & bowl of MK05250)
Sample 60	=	Silvery metal (rivet for flat pan & bowl of MK05250)
Sample 61	=	Silvery metal (back of rivet for flat pan& bowl of MK05250)
Sample 62	=	Silvery metal (body of pot of MK05250)
Sample 63	=	Silvery metal (handle on body of pot of MK05250)
Sample 64	=	Silvery metal (rivet for handle on body of pot of MK05250)
Sample 65	=	Silvery metal (back of rivet for handle on body of pot of MK05250)
Sample 66	=	Silvery metal (lid of pot of MK05250)
Sample 67	=	Silvery metal (handle on lid of pot of MK05250)
Sample 68	=	Silvery metal (rivet for handle on lid of pot of MK05250)
Sample 69	=	Silvery metal (back of rivet for handle on lid of pot of MK05250)
Sample 70	=	Silvery metal (small screw for gear case on back of body of ME09609)
Sample 71	=	Silvery metal (holder of round fastener on back of body of ME09609)
Sample 72	=	Light golden metal (round plate under of round fastener on back of body of ME09609)

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CLIENT: Carpenters Manufactory Limited C80451775 REPORT NO: ADDRESS:

Huang Jin Ji Industrial Zone, Shang Jie Village, QiShi DATE: August 24, 2017

Town, DongGuan City, Guang Dong, China

### **TEST RESULTS**

Sample 73 Silvery metal (round plate under of round fastener on back of body of ME09609)

Sample 74 Off-white plastic (holder of large screw of ME09609) (inaccessible) Sample 75 Silvery metal (screw on side body of cash register of MK04154)

Sample 76 Silvery metal (large screws of ME09609)

Date(s) of test(s) conducted: March 30, 2017 to June 1, 2017

July 20, 2017 to August 22, 2017 [Second Submission Sample]

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CLIENT: Carpenters Manufactory Limited REPORT NO: C80451775
ADDRESS: Huang Jin Ji Industrial Zone, Shang Jie Village, QiShi DATE: August 24, 2017

Town, DongGuan City, Guang Dong, China

### **Product Photo:**











\*\*\*\*\*\* THE END \*\*\*\*\*\*

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#### APPENDIX 1 - TERMS AND CONDITIONS OF SERVICE / 附件一:服务所依据的条款和条件

UL VS Shanghai Limited.-Sherzhen Branch ("UL VS") undertakes to provide services to its Customer subject to the terms and conditions contained herein. 优力胜邦质量检测(上海)有限公司深圳分公司("乙方")承诺根据以下所列的条款向客户("甲方")提供服务。

## COMPUTATION OF CHARGES AND PAYMENT 第一条 费用计算和付款

(a) Consulting time shall be charged on a daily basis.
 咨询时间应当以日为基础计费。

- 容询时间监当以目为基础计 竞

  (6) Where the personnel of U. U.S are assigned by its Customer to any in-house projects, the Customer shall be billed on an hourly basis on the compensation rates of its personnel.

  当之方的人员教廷甲为指统至任何内部项目,甲方应当以中为场路就批等人员的推销费率进行计费。

  Disbursements incurred on the Customer's behalf such as expenditure for communications, travel, the purchase of any materials, tools, equipment, components or parts which are directly related to the service shall be billed at costs and shall inclu handling change at the discretion of U. U.S.

  为甲方面产生的开支向与服务有数相关的通讯、交通、发施、购买任何原料、工具、设备、零件成部件价费用,应当按成本向甲方计费,且应包含一笔由之方决定的合理手转费。

  Where in the opinion of U. U.S the services are the consuming entailing the use of special equipment and disbursements, the Customer shall be charged on an "equipment-hour" basis on the time spent.

  当之方种服务务相关认真何。 导致使用特殊经验或支部内,对于内部以标准表的"设备一句" 为基础收取资讯。

  与文学和企业分析在职以人间介式文付,或者根据之方可以随时规定的其他的方或其他方式支付。以邮务方式做出的付款应当由中方承担风险。

  中方承征本分以在使用的:

  (a) to punctually any all billings rendered to the customer from time to time;

  准明文件不可提供信用方面存储来。

  (b) unless otherwise agreed in writing, payment is to be made within 7 days from the date of Invoice or the date of the Debit Note;
- 1.3
- 14

- (b) unless otherwise agreed in writing, payment is to be made within 7 days from the date of Invoice or the date of the Debit Note; 除半另有书面约定,付款应当在开身发票或付款通知日之后的 7 天内做出:
- where the Customer fails to pay within time, U.V. Shall charge interest on overdue invoices at the rate of 2% per month or 24% per annum until payment, such interest to run from day to day and to accrue after as well as before any judgment and is to be compounded at monthly (c)

#### ENTIAL TREATMENT OF INCORMATION

#### 信息的保密处理

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3.2 UL VS's use of the aforesaid inventions shall be free of any royally fees provided that the uses of such inventions are confined to the performance of the work for the Customer. 在为甲方履行工作的过程中使用上述发明,乙方应当免付专利使用费。

#### 第五条 补偿

The event of actual or threatened suit against UL VS in relation to the services undertaken on behalf of the Customer or in relation to any of the Products or the Trade Mark or Patent of the Customer or of any allegation of infringement of any letters patent, registered design, trade mark or trade name, the Customer shall indemnify UL VS harmless from any leability, action, claim, demand, costs, charges and expenses arising there from or expense including solicitors fees, counsel's fees in defending such action <u>Producted Always</u> that the Customer will all its own election either effect any settlement or compromise or at its own expenses defend any such action or proceeding and the Customer shall pay the costs of any settlement or compromise effects.

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#### SOLICITATION OF EMPLOYEES

보여기면 It is mutually agreed that neither party shall solicit the employees of the other for employment or hire unless prior written consent to do so is obtai 双方同意除非得到事先书面问意,任何一方均不得引诱雇佣或聘用另一方的雇员。

**無以中的來刀**The accompanying proposal is vaild for a period of ninety (90) days from the date of the proposal unless extended in writing by UL VS. Upon the acceptance of such proposal, this appendix shall form part of the Agreement with the Customer and notwithstanding any prior discussions or prior oral or written agreements to the contrary, the terms and conditions herein shall be applicable and take precedence over any conflicting terms contained in any documents submitted by the Customer.

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# DATA AND DOCUMENT RETENTION 第八条 数据和文件保留

**陳文件展開**After the services are rendered, UL VS may retain a copy of all documents relating to the services (the "Supporting Documents") for as long as UL VS, in its sole discretion, deems fit.

在提供服务后,乙方可以在其从为合适种模能一份与其服务相关的所有文件("支持文件")的复即件。
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MAL DISCLAIMER

十二条 电子格传表声明

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