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Applicant:

CARPENTERS MANUFACTORY LIMITED

Address :

HUANG JIN JI INDUSTRIAL ZONE, SHANG JIE VILLAGE, QI SHI TOWN,

DONGGUAN CITY, GUANGDONG PROVINCE, P.R.CHINA

Report on the submitted sample(s) said to be:

Sample Name

: Excavator

Item/Lot No.

: TC2D02

Manufacturer

: Carpenters Manufactory Limited

Quantity of Sample

: 2pcs/style

Country of Origin

: China

Exported to

: Europe

Laported to

Europe

Client Specified Age Grading

: 3Y +

Labeled Age Grading

: Not stated

Age Group Applied in Testing

: Over 3 years (As per client's request)

Sample Received Date

: Jul. 15, 2013

Sample Resubmission Date

: Jul. 23, 2013

Sample Tested Date

: Jul. 15, 2013 to Jul. 25, 2013

#### **Test Conducted:**

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

Tested

1. .

Reviewed by

Date

2013-07-26

Lab Manager

No. 1622539447

Hongwei Industrial Zone, Bao'an 70 District, Shenzhen, Guangdong, China





Centre Testing International (Shenzhen) Co., Ltd.

ictor Wang



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### **Executive Summary:**

TES	ST REQUEST	CONCLUSION
1)	European Standard on Safety of Toys:	
_	EN 71-1:2011 Mechanical and Physical Properties	PASS
-	EN 71-2:2011 Flammability of Toys	PASS
-	EN 71-3:2013 Migration of certain elements	PASS
2)	European Regulation(EC) No. 1907/2006, REACH & amendment No.552/2009 Annex XVII	
-	Cadmium and its compounds	PASS
-	Phthalates in toys and childcare articles	PASS
	****** For Further Details, Please Refer To the Following Page(s) ***	****

Hotline 400-6788-333



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### 1) EUROPEAN STANDARD ON SAFETY OF TOYS

### **▼** Mechanical and physical properties

As specified in European Standard on Safety of Toys EN 71 part 1:2011.

Clause	Descript	<u>ion</u>	Assessment
4	General 1	requirements	
4.1	Material	cleanliness	Pass
4.7	Edges		Pass
4.8		nd metallic wires	Pass
4.10	Parts mo	ving against each other:	
	4.10.3	Hinges	N/A
		(Not applicable to products with a hinged part that has a mass less	
		than 250g.)	
7	Warning	s and instructions for use	
7.1	General		N/A
7.2	Toys not	intended for children under 36 months	N/A
	(Remark	: No small part was found before and after test.)	
N/A = N	ot Applica	able	

N/A – Not Applicable

#### Note:

Only applicable clause(s) was/ were shown.

### **▼** Flammability of Toys

As specified in European Standard on Safety of Toys EN 71 part 2:2011.

<u>Clause</u>	<b>Description</b>	<u>Assessment</u>
4	Requirements	
4.1	General	Pass
	(The following materials shall not be used in the manufacture of toys except as	
	provided in EN 71-2:2011:	
	Celluloid, materials with the same behaviour in fire as celluloid, materials with a	
	piled surface which produce surface flash, flammable gases, extremely	
	flammable liquids, highly flammable liquids, flammable liquids and flammable	
	gels.)	

#### Note:

- Only applicable clause(s) was/ were shown.





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### **▼**Migration of certain elements ※

As specified in European standard on safety of toys EN 71-3:2013 – Migration of certain elements, acid extraction method was used and toxic elements content were determined by ICP-OES, ICP-MS, HPLC-ICP-MS and GC-MS.

Category III: scraped-off toy material

Tested Item		MDL	<u>Limit</u>			
	(1)	(2)	(3)	(4)	(mg/kg)	(mg/kg)
Aluminium (Al)	ND	ND	87	ND	50	70000
Antimony (Sb)	ND	ND	ND	ND	5	560
Arsenic (As)	ND	ND	ND	ND	5	47
Barium (Ba)	ND	ND	ND	ND	50	18750
Boron (B)	ND	ND	ND	ND	50	15000
Cadmium (Cd)	ND	ND	ND	ND	1	17
Chromium (Cr <sup>3+</sup> )	ND	ND	ND	ND	0.16	460
Chromium (Cr <sup>6+</sup> )	ND	ND	ND	ND	0.16	0.2
Cobalt (Co)	ND	ND	ND	ND	5	130
Copper (Cu)	ND	ND	ND	ND	50	7700
Lead (Pb)	ND	ND	ND	ND	5	160
Manganese (Mn)	ND	ND	ND	79	50	15000
Mercury (Hg)	ND	ND	ND	ND	5	94
Nickel (Ni)	ND	ND	ND	ND	5	930
Selenium (Se)	ND	ND	ND	ND	5	460
Strontium (Sr)	ND	ND	ND	ND	50	56000
Tin (Sn)	ND	ND	ND	ND	2	180000
Organic tin	ND	ND	ND	ND	5	12
Zinc (Zn)	ND	3177	292	ND	50	46000



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Tested Item		Result (	(mg/kg)		MDL	<u>Limit</u>
	(5)	(6)	(7)	(8)	(mg/kg)	(mg/kg)
Aluminium (Al)	ND	ND	ND	ND	50	70000
Antimony (Sb)	ND	ND	ND	ND	5	560
Arsenic (As)	ND	ND	ND	ND	5	47
Barium (Ba)	ND	ND	ND	ND	50	18750
Boron (B)	ND	ND	ND	ND	50	15000
Cadmium (Cd)	ND	ND	ND	ND	1	17
Chromium (Cr <sup>3+</sup> )	ND	ND	ND	ND	0.16	460
Chromium (Cr <sup>6+</sup> )	ND	ND	ND	ND	0.16	0.2
Cobalt (Co)	ND	ND	ND	ND	5	130
Copper (Cu)	ND	ND	ND	ND	50	7700
Lead (Pb)	ND	ND	ND	ND	5	160
Manganese (Mn)	ND	ND	88	ND	50	15000
Mercury (Hg)	ND	ND	ND	ND	5	94
Nickel (Ni)	ND	ND	ND	ND	5	930
Selenium (Se)	ND	ND	ND	ND	5	460
Strontium (Sr)	ND	ND	ND	ND	50	56000
Tin (Sn)	ND	ND	ND	ND	2	180000
Organic tin	ND	ND	ND	ND	5	12
Zinc (Zn)	ND	ND	ND	857	50	46000

### Tested Component(s):

- (1) Natural wood
- (2) Orange coating(A2Y)
- (3) Light yellow coating(A3Y)
- (4) Brown MDF
- (5) Black soft plastic(wheels)
- (6) Yellow plastic(hub of wheels)
- (7) Beige bamboo(axle of shovel)
- (8) Natural veneer





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#### Remark:

- mg/kg = milligram per kilogram = ppm
- ND = Not Detected (less than MDL)
- MDL = Method Detection Limit
- Unless specified, Cr species (Cr<sup>3+</sup> and Cr<sup>6+</sup>) and organic Tin were determined based on elemental analysis.
- As received, the test portion of bright red coating(A1Y) and dark green coating(A5Y) are less than 10mg, therefore such components were not tested for migration of certain elements, as specified in the European standard on safety of toys EN71-3:2013, clause 7 selection of test portions.
- Result(s) shown of tested component(s) (1)~(3) is/are quoted from CTI test report TLSZF00066791a.
  - Result(s) shown of tested component(s) (4) is/are quoted from CTI test report TLSZF00066790a.
- "X" indicates the method(s) is (are) not applied for CNAS accreditation yet.

### 2) REACH ANNEX XVII

### **▼**Cadmium and its compounds

As specified in entry 23, annex XVII of European regulation (EC) No. 1907/2006 (REACH) with amendments No.552/2009 & No.494/2011, method EN 1122:2001 Method B was used and total Cadmium content was determined by ICP-OES and/or AAS.

Tested Item		Result (%)		<u>MDL</u>	<u>Limit</u>
	(1)/(2)/(3)	(4)	(5)	(%)	(%)
Cadmium (Cd)	ND	ND	ND	0.0005	0.01
Tested Item		Result (%)		MDL	<u>Limit</u>
Tested Item	(6)/(7)	Result (%)	(8)	<u>MDL</u> (%)	<u>Limit</u> (%)

#### Tested Component(s):

- (1) Bright red coating(A1Y)
- (2) Orange coating(A2Y)
- (3) Light yellow coating(A3Y)
- (4) Brown MDF
- (5) Dark green paint(A5Y)







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- (6) Black soft plastic(wheels)
- (7) Yellow plastic(hub of wheels)
- (8) Natural veneer

#### Remark:

- % = Percentage
- ND = Not Detected (less than MDL)
- MDL = Method Detection Limit
- The limit for composite test should be divided by the mixed number.
- Result(s) shown of tested component(s) (1)~(3) is/are quoted from CTI test report TLSZF00066791a.

Result(s) shown of tested component(s) (4) is/are quoted from CTI test report TLSZF00066790a.

### **▼**Phthalates in toys and childcare articles

As specified in entry 51 & entry 52, annex XVII of European regulation (EC) No. 1907/2006 (REACH) with amendment No.552/2009, method EN 14372:2004 was used and phthalates were determined by gas chromatograph with mass spectrometer (GC-MS).

Tested Item		<u>MDL</u>	<u>Limit</u>		
	(1)	(2)	(3)	(%)	(%)
Di-2-ethylhexyl Phthalate (DEHP)	ND	ND	ND	0.003	
Dibutyl Phthalate (DBP)	ND	ND	ND	0.003	
Benzylbutyl Phthalate (BBP)	ND	ND	ND	0.003	
SUM(DEHP+DBP+BBP)	ND	ND	ND		0.1

Tested Item		Result (%)	MDL	<u>Limit</u>	
	(4)	(5)	(6)	(%)	(%)
Di-2-ethylhexyl Phthalate (DEHP)	ND	ND	ND	0.003	
Dibutyl Phthalate (DBP)	ND	ND	ND	0.003	
Benzylbutyl Phthalate (BBP)	ND	ND	ND	0.003	
SUM(DEHP+DBP+BBP)	ND	ND	ND		0.1





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Tested Item	Result (%)			MDL	<u>Limit</u>
	(1)	(2)	(3)	(%)	(%)
Diisononyl Phthalate (DINP)	ND	ND	ND	0.005	
Di-n-octyl Phthalate (DNOP)	ND	ND	ND	0.003	
Diisodecyl Phthalate (DIDP)	ND	ND	ND	0.005	
SUM(DINP+DNOP+DIDP)	ND	ND	ND		0.1

Tested Item		Result (%)	MDL	<u>Limit</u>	
	(4)	(5)	(6)	(%)	(%)
Diisononyl Phthalate (DINP)	ND	ND	ND	0.005	
Di-n-octyl Phthalate (DNOP)	ND	ND	ND	0.003	
Diisodecyl Phthalate (DIDP)	ND	ND	ND	0.005	
SUM(DINP+DNOP+DIDP)	ND	ND	ND		0.1

### Tested Component(s):

- (1) Bright red paint(A1Y)
- (2) Orange paint(A2Y)
- (3) Light yellow paint(A3Y)
- (4) Dark green paint(A5Y)
- (5) Black soft plastic(wheels)
- (6) Yellow plastic(hub of wheels)

#### Remark:

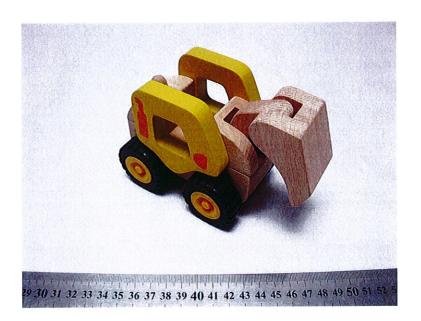
- % = percentage
- ND = Not Detected (less than MDL)
- MDL = Method Detection Limit
- Result(s) shown of tested component(s) (1)~(4) is/are quoted from CTI test report TLSZF00061943a.





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### Photo of the sample





\*\*\* End of Report \*\*\*

The test report is effective only with both signature and specialized stamp. The result(s) shown in this report refer only to the sample(s) tested. Without written approval of CTI, this report can't be reproduced except in full.

