



Page 1 of 13 Report No.: TJD01F002544b

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

: Bulldozer

Item/Lot No.

: TC2D01

Manufacturer

: Carpenters Manufactory Limited

Quantity of Sample

: 2pcs/style

Country of Origin

: China

Exported to

: U.S.A

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 Tested Date

: Jul. 15, 2013 to Jul. 23, 2013

Test Conducted:

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

Tested

Reviewed by

Date

2013-07-23

ab Manager

No. 1622545789

Centre Testing International (Shenzhen) Co., Ltd.

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



Report No.: TJD01F002544b Page 2 of 13

Executive Summary:

TE	ST REQUEST	CONCLUSION
1)	US Consumer Product Safety Improvement Act of 2008 (CPSIA) with amendment (H.R.2715)	
	Lead in surface-coatings and similar materials of children's products	PASS
-	Lead in surface-coatings and similar materials of children's products	IASS
-	Lead in substrate materials of children's products	PASS
-	Phthalates in children's toys and child care articles	PASS
2)	Consumer Product Safety Commission 16 CFR Ch.II	
-	Part 1303 - Ban of Lead in paint and similar surface coating	PASS
3)	ASTM F963-11 Standard Consumer Safety Specification for Toy Safety	
-	Mechanical and Physical test	PASS
		(Ex. Clause 7.1)
-	Clause 4.2 Flammability of toys	PASS
-	Clause 4.3.5 Heavy elements – Total Lead content	PASS
-	Clause 4.3.5 Heavy elements – Migration of certain elements	PASS
4)	California proposition 65 settlements	
-	Lead content test	PASS
-	Phthalates test	PASS

****** For Further Details, Please Refer To the Following Page(s) *********



Report No.: TJD01F002544b

Page 3 of 13

1) US CPSIA WITH AMENDMENT (H.R.2715)

▼Lead in surface-coating and similar materials of children's products

As specified in Consumer Product Safety Improvement Act of 2008 (CPSIA) and 16 CFR Ch.II part 1303 of Consumer Product Safety Commission of U.S.A, method CPSC-CH-E1003-09 was used and total lead content was determined by ICP-OES and/or AAS.

Tested Item	Result (ppm)					<u>Limit</u>
	(1)	(2)	(3)	(4)	(ppm)	(ppm)
Total Lead (Pb)	ND	ND	ND	ND	10	90

Tested Component(s):

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

Remark:

- ppm = parts per million = mg/kg
- ND = Not Detected (less than MDL)
- MDL = Method Detection Limit
- All results shown is/are quoted from CTI test report TLSZF00061943b.

▼Lead in substrate materials of children's products

As specified in Consumer Product Safety Improvement Act of 2008 (CPSIA), method(s) CPSC-CH-E1001-08.1/CPSC-CH-E1002-08.1 were used and total lead content was determined by ICP-OES and/or AAS.

Tested Item	Result (ppm)			MDL	<u>Limit</u>
	(1)	(2)/(3)	(4)	(ppm)	(ppm)
Total Lead (Pb)	ND	ND	ND	10	100



Report No.: TJD01F002544b Page 4 of 13

Tested Component(s):

- (1) Brown MDF
- (2) Black soft plastic(wheels)
- (3) Yellow plastic(hub of wheels)
- (4) Natural veneer

Remark:

- ppm = parts per million = mg/kg
- 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) is/are quoted from CTI test report TLSZF00066790b.

▼Phthalates in children's toys and childcare articles

As specified in Consumer Product Safety Improvement Act of 2008 (CPSIA), method CPSC-CH-C1001 -09.3 was used and phthalates were determined by gas chromatograph with mass spectrometry (GC-MS).

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

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

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

CLEUD I STORS INTERNATIONAL CORPORATION

White the state of the state of



Report No.: TJD01F002544b

Page 5 of 13

<u>Tested Item</u>	Result (%)			MDL	<u>Limit</u>
	(4)	(5)	(6)	(%)	(%)
Diisononyl Phthalate (DINP)	ND	ND	ND	0.005	0.1
Di-n-octyl Phthalate (DNOP)	ND	ND	ND	0.003	0.1
Diisodecyl Phthalate (DIDP)	ND	ND	ND	0.005	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 TLSZF00061943b.

2) CONSUMER PRODUCT SAFETY COMMISSION 16 CFR CH.II

▼ Total Lead content

As specified in CPSC 16 CFR CH.II part 1303, method CPSC-CH-E1003-09 was used and total Lead content was determined by ICP-OES and/or AAS.

<u>Tested Item</u>	em Result (%)					<u>Limit</u>
	(1)	(2)	(3)	(4)	(%)	(%)
Total Lead (Pb)	ND	ND	ND	ND	0.0010	0.0090



Report No.: TJD01F002544b Page 6 of 13

Tested Component(s):

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

Remark:

- %= Percentage
- ND = Not Detected (less than MDL)
- MDL = Method Detection Limit
- All results shown is/are quoted from CTI test report TLSZF00061943b.

3) ASTM F963-11

▼ Mechanical and Physical test

As specified in ASTM F963-11 standard consumer safety specification for toy safety.

<u>Clause</u>	<u>Description</u>	Assessment
4.	Safety Requirements	
4.1	Material Quality (Visual Examination)	Pass
4.6	Small Objects	N/A
4.7	Accessible Edges	Pass
4.9	Accessible Points	Pass
4.13	Folding Mechanisms & Hinges	N/A
4.17	Wheels, Tires & Axles	Pass
7.	Producers Markings	
7.1	Producers Markings.	See Remark
	Remark: It is drawn to your attention that either a principal component of a toy	
	or the package of a toy shall be marked with the name and address of the	
	producer or the distributor.	
8.	Test Method	
8.5	Normal Use Testing	Pass
8.7	Impact Test	Pass
8.8	Torque Test	Pass



Report No.: TJD01F002544b

Page 7 of 13

8.9	Tension Test	Pass
8.10	Compression Test	Pass

N/A = Not Applicable

Note:

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

▼Clause 4.2 Flammability of toys

As specified in ASTM F963-11 standard consumer safety specification for toy safety.

Flammability Test on Solid

Burning Rate (inch/sec)	Limit (inch/sec)
DNI	0.1

-- DNI = Did Not Ignite

Note:

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

▼Heavy elements test - Total Lead content

As specified in ASTM F963-11 standard consumer safety specification for toy safety clause 4.3.5, acid digestion methods specified in clause 8.3 were used and total Lead content was determined by ICP-OES and/or AAS.

1. Paint and similar surface coating materials:

Tested Item	Result (mg/kg)				<u>MDL</u>	<u>Limit</u>
	(1)	(2)	(3)	(4)	(mg/kg)	(mg/kg)
Total Lead (Pb)	ND	ND	ND	ND	10	90

2. Toy substrate materials:

Tested Item		MDL	<u>Limit</u>		
	(5)	(6)/(7)	(8)	(mg/kg)	(mg/kg)
Total Lead (Pb)	ND	ND	ND	10	100



Report No.: TJD01F002544b Page 8 of 13

Tested Component(s):

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

Remark:

- mg/kg = milligram per kilogram = ppm
- 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 TLSZF00061943b.

Result(s) shown of tested component(s) (5) is/are quoted from CTI test report TLSZF00066790b.

▼Heavy elements test - Migration of certain elements

As specified in ASTM F963-11 standard consumer safety specification for toy safety clause 4.3.5, acid extraction methods specified in clause 8.3 were used and toxic elements content were determined by ICP-OES.

Tested Item	Result (mg/kg)						<u>MDL</u>	<u>Limit</u>
	(1)	(2)	(3)	(4)	(5)	(6)	(mg/kg)	(mg/kg)
Soluble Antimony (Sb)	ND	ND	ND	ND	ND	ND	5	60
Soluble Arsenic (As)	ND	ND	ND	ND	ND	ND	2.5	25
Soluble Barium (Ba)	ND	ND	ND	ND	ND	ND	5	1000
Soluble Cadmium (Cd)	ND	ND	ND	ND	ND	ND	5	75
Soluble Chromium (Cr)	ND	ND	ND	ND	ND	ND	2.5	60
Soluble Lead (Pb)	ND	ND	ND	ND	ND	ND	5	90
Soluble Mercury (Hg)	ND	ND	ND	ND	ND	ND	2.5	60
Soluble Selenium (Se)	ND	ND	ND	ND	ND	ND	5	500



Report No.: TJD01F002544b

Page 9 of 13

Tested Component(s):

- (1) Orange coating(A2Y)
- (2) Light yellow coating(A3Y)
- (3) Brown MDF
- (4) Black soft plastic(wheels)
- (5) Yellow plastic(hub of wheels)
- (6) Natural veneer

Remark:

- mg/kg = milligram per kilogram = ppm
- ND = Not Detected (less than MDL)
- MDL = Method Detection Limit
- Results shown of soluble elements are of adjusted analytical results by subtracting analytical correction factor
- Filter paper was used instead of 0.45μm membrane filter in lab testing.
- 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 soluble elements, as specified in ASTM F963-11 Clause 8.3.
- Result(s) shown of tested component(s) (1) and (2) is/are quoted from CTI test report TLSZF00066791b.

Result(s) shown of tested component(s) (3) is/are quoted from CTI test report TLSZF00066790b.

4) CALIFORNIA PROPOSITION 65 SETTLEMENTS

▼Lead content test ※

With reference to concerned California proposition 65 settlements, acid digestion method was used and total Lead content was determined by ICP-OES and/or AAS.

1. Lead in paints and surface-coating materials:

Tested Item		Result	(ppm)		<u>MDL</u>	Reference limit
	(1)	(2)	(3)	(4)	(ppm)	(ppm)
Total Lead (Pb)	ND	ND	ND	ND	10	90



Report No.: TJD01F002544b

Page 10 of 13

2. Lead in other materials:

Tested Item		Result (ppm)		MDL	Reference limit
	(5)	(6)/(7)	(8)	(ppm)	(ppm)
Total Lead (Pb)	ND	ND	ND	10	600

Tested Component(s):

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

Remark:

- ppm = parts per million = mg/kg
- 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) ~ (4) is/are quoted from CTI test report TLSZF00061943b.

Result(s) shown of tested component(s) (5) is/are quoted from CTI test report TLSZF00066790b.

- "X" indicates the method(s) is (are) not applied for CNAS accreditation yet.



Report No.: TJD01F002544b Page 11 of 13

▼Phthalates test **※**

With reference to concerned California Proposition 65 settlements, solvent extraction method was used and phthalates were determined by gas chromatograph with mass spectrometer (GC-MS).

<u>Tested Item</u>		Result (%)	MDL	Reference Limit	
	(1)	(2)	(3)	(%)	(%)
Di-2-ethylhexyl Phthalate (DEHP)	ND	ND	ND	0.003	0.1
Dibutyl Phthalate (DBP)	ND	ND	ND	0.003	0.1
Benzylbutyl Phthalate (BBP)	ND	ND	ND	0.003	0.1
Diisononyl Phthalate (DINP)	ND	ND	ND	0.005	0.1
Di-n-octyl Phthalate (DNOP)	ND	ND	ND	0.003	0.1
Diisodecyl Phthalate (DIDP)	ND	ND	ND	0.005	0.1
Di-n-hexyl Phthalate (DnHP)	ND	ND	ND	0.003	0.1

Tested Item		Result (%)	MDL	Reference Limit	
	(4)	(5)	(6)	(%)	(%)
Di-2-ethylhexyl Phthalate (DEHP)	ND	ND	ND	0.003	0.1
Dibutyl Phthalate (DBP)	ND	ND	ND	0.003	0.1
Benzylbutyl Phthalate (BBP)	ND	ND	ND	0.003	0.1
Diisononyl Phthalate (DINP)	ND	ND	ND	0.005	0.1
Di-n-octyl Phthalate (DNOP)	ND	ND	ND	0.003	0.1
Diisodecyl Phthalate (DIDP)	ND	ND	ND	0.005	0.1
Di-n-hexyl Phthalate (DnHP)	ND	ND	ND	0.003	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)



Report No.: TJD01F002544b

Page 12 of 13

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 TLSZF00061943b.
- "%" indicates the method(s) is (are) not applied for CNAS accreditation yet.



Report No.: TJD01F002544b

Page 13 of 13

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.