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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

: School Bus/Ambulance/Camper Van/Dump Truck/Police Car/

Fire Truck/Tow Truck/Recycling Truck

Item/Lot No.

: TC0A01/TC0A02/TC0A03/TC0A04/TC0A06/TC0A08/TC0A10/

TC0A11

Manufacturer

: Carpenters Manufactory Limited

Quantity of Sample

: 2pcs/style

Country of Origin

: China

Exported to

: U.S.A

Client Specified Age Grading

: 2Y +

Labeled Age Grading

: Not stated

Age Group Applied in Testing

: Over 2 years

Sample Received Date

: Jun. 18, 2013

Sample Tested Date

: Jun. 18, 2013 to Jun. 21, 2013

Test Conducted:

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

Tested

h

Reviewed by

Date

2013-06-24

Victor Wang

Lab Manager

No. 1622549348

Testing International (Shenzhen) Co., Ltd. Hongwei

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





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Executive Summary:

TES	T 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 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) *********





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

▼<u>Lead in surface-coating and similar materials of children's products</u>

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-E1003-09.1 was used and total lead content was determined by ICP-OES and/or AAS.

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

Tested Item		MDL	<u>Limit</u>			
	(5)	(6)	(7)	(8)	(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)
- (5) White paint(A14Y)
- (6) Grey paint(A15Y)
- (7) Black paint(A19Y)
- (8) Dark blue paint(A7Y)

Remark:

- ppm = parts per million = mg/kg
- ND = Not Detected (less than MDL)
- MDL = Method Detection Limit
- Result(s) shown of tested component(s) (1)~(6) and (8) is/are quoted from CTI test report TLSZF00061943b.
- Result(s) shown of tested component(s) (7) is/are quoted from CTI test report TLSZF00065029a.





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▼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	

Tested Component(s):

- (1) Brown MDF
- (2) Black soft plastic(wheel)
- (3) Beige plastic(hub)
- (4) Beige cord

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 reportTLSZF00066790b.

▼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).

Tested Item		Result (%)		MDL	<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





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Tested Item		<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 (%)				<u>Limit</u>
	(7)	(8)/(9)	(10)	(%)	(%)
Di-2-ethylhexyl Phthalate (DEHP)	0.034	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>
	(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

<u>Tested Item</u>		Result (%)	<u>MDL</u>	<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 Item		Result (%)	<u>MDL</u>	<u>Limit</u>	
	(7)	(8)/(9)	(10)	(%)	(%)
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

- (1) Bright red paint(A1Y)
- (2) Orange paint(A2Y)
- Light yellow paint(A3Y)



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- (4) Dark green paint(A5Y)
- White paint(A14Y)
- (6) Grey paint(A15Y)
- (7) Black paint(A19Y)
- (8) Black soft plastic(wheel)
- (9) Beige plastic(hub)
- (10) Dark blue paint(A7Y)

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)~(6) and (10) is/are quoted from CTI test report TLSZF00061943b.
- Result(s) shown of tested component(s) (7) is/are quoted from CTI test report TLSZF00065029a.

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-E1003-09.1 was used and total Lead content was determined by ICP-OES and/or AAS.

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

Tested Item		<u>MDL</u>	<u>Limit</u>			
	(5)	(6)	(7)	(8)	(%)	(%)
Total Lead (Pb)	ND	ND	ND	ND	0.0010	0.0090

- (1) Bright red paint(A1Y)
- (2) Orange paint(A2Y)
- (3) Light yellow paint(A3Y)





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- (4) Dark green paint(A5Y)
- (5) White paint(A14Y)
- (6) Grey paint(A15Y)
- (7) Black paint(A19Y)
- (8) Dark blue paint(A7Y)

Remark:

- %= Percentage
- ND = Not Detected (less than MDL)
- MDL = Method Detection Limit
- Result(s) shown of tested component(s) (1)~(6) and (8) is/are quoted from CTI test report TLSZF00061943b.
- Result(s) shown of tested component(s) (7) is/are quoted from CTI test report TLSZF00065029a.

3) ASTM F963-11

▼ Mechanical and Physical test

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

Clause	<u>Description</u>	Assessment
4.	Safety Requirements	
4.1	Material Quality (Visual Examination)	Pass
4.6	Small Objects	Pass
4.7	Accessible Edges	Pass
4.8	Projections	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.	





Page 8 of 16 Report No.: TJD01F000775b 8. Test Method Pass 8.5 Normal Use Testing..... Pass Impact Test 8.7 Pass Torque Test..... 8.8 Pass Tension Test..... 8.9 Pass 8.10 Compression Test.....

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

runniadinty rest on some	
Burning Rate (inch/sec)	Limit (inch/sec)
DNI	0.1

-- DNI = Did Not Ignite

Note:

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





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

Tested Item		MDL	<u>Limit</u>			
	(5)	(6)	(7)	(8)	(mg/kg)	(mg/kg)
Total Lead (Pb)	ND	ND	ND	ND	10	90

2. Toy substrate materials:

Tested Item		Result (mg/kg)		MDL	<u>Limit</u>	
	(9)	(10)/(11)	(12)	(mg/kg)	(mg/kg)	
Total Lead (Pb)	ND	ND	ND	10	100	

- (1) Bright red paint(A1Y)
- (2) Orange paint(A2Y)
- (3) Light yellow paint(A3Y)
- (4) Dark green paint(A5Y)
- (5) White paint(A14Y)
- (6) Grey paint(A15Y)
- (7) Black paint(A19Y)
- (8) Dark blue paint(A7Y)
- (9) Brown MDF
- (10) Black soft plastic(wheel)
- (11) Beige plastic(hub)
- (12) Beige cord





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Remark:

- mg/kg = milligram per kilogram = ppm
- 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)~(6) and (8) is/are quoted from CTI test report TLSZF00061943b.
- Result(s) shown of tested component(s) (7) is/are quoted from CTI test report TLSZF00065029a.
- Result(s) shown of tested component(s) (9) 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			<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



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Tested Item		<u>R</u>	MDL	<u>Limit</u>			
	(7)	(8)	(9)	(10)	(11)	(mg/kg)	(mg/kg)
Soluble Antimony (Sb)	ND	ND	ND	ND	ND	5	60
Soluble Arsenic (As)	ND	ND	ND	ND	ND	2.5	25
Soluble Barium (Ba)	ND	ND	ND	ND	ND	5	1000
Soluble Cadmium (Cd)	ND	ND	ND	ND	ND	5	75
Soluble Chromium (Cr)	ND	ND	ND	ND	ND	2.5	60
Soluble Lead (Pb)	ND	ND	ND	ND	ND	5	90
Soluble Mercury (Hg)	ND	ND	ND	ND	ND	2.5	60
Soluble Selenium (Se)	ND	ND	ND	ND	ND	5	500

- (1) Light yellow coating(A3Y)
- (2) Dark green coating(A5Y)
- (3) Bright red coating(A1Y)
- (4) White coating(A14Y)
- (5) Black coating(A19Y)
- (6) Orange coating(A2Y)
- (7) Dark blue coating(A7Y)
- (8) Brown MDF
- (9) Black soft plastic(wheel)
- (10) Beige plastic(hub)
- (11) Beige cord



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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 grey coating(A15Y) is 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)~(3), (6) and (7) is/are quoted from CTI test report TLSZF00067791b.
- Result(s) shown of tested component(s) (4) is/are quoted from CTI test report TLSZF00066799b.
- Result(s) shown of tested component(s) (5) is/are quoted from CTI test report TLSZF00066802b.
- Result(s) shown of tested component(s) (8) is/are quoted from CTI test reportTLSZF00066790b.

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	MDL	Reference limit		
	(1)	(2)	(3)	(4)	(ppm)	(ppm)
Total Lead (Pb)	ND	ND	ND	ND	10	90
Tested Item		Result	(ppm)		MDL	Reference limit
	(5)	Result	(ppm) (7)	(8)	MDL (ppm)	Reference limit (ppm)





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2. Lead in other materials:

Tested Item		Result (ppm)		MDL	Reference limit
	(9)	(10)/(11)	(12)	(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) White paint(A14Y)
- (6) Grey paint(A15Y)
- (7) Black paint(A19Y)
- (8) Dark blue paint(A7Y)
- (9) Brown MDF
- (10) Black soft plastic(wheel)
- (11) Beige plastic(hub)
- (12) Beige cord

Remark:

- ppm = parts per million = mg/kg
- ND = Not Detected (less than MDL)
- MDL = Method Detection Limit
- "*" indicates the method(s) is (are) not applied for CNAS accreditation yet.
- The limit for composite test should be divided by the mixed number.
- Result(s) shown of tested component(s) (1)~(6) and (8) is/are quoted from CTI test report TLSZF00061943b.
- Result(s) shown of tested component(s) (7) is/are quoted from CTI test report TLSZF00065029a.
- Result(s) shown of tested component(s) (9) is/are quoted from CTI test report TLSZF00066790b.





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▼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).

Tested Item		Result (%)	<u>MDL</u>	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 (%)	<u>MDL</u>	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 Item	Result (%)			<u>MDL</u>	Reference Limit
	(7)	(8)/(9)	(10)	(%)	(%)
Di-2-ethylhexyl Phthalate (DEHP)	0.034	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



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Tested Component(s):

- (1) Bright red paint(A1Y)
- (2) Orange paint(A2Y)
- (3) Light yellow paint(A3Y)
- (4) Dark green paint(A5Y)
- (5) White paint(A14Y)
- (6) Grey paint(A15Y)
- (7) Black paint(A19Y)
- (8) Black soft plastic(wheel)
- (9) Beige plastic(hub)
- (10) Dark blue paint(A7Y)

Remark:

- % = Percentage
- ND = Not Detected (less than MDL)
- MDL = Method Detection Limit
- "%" indicates the method(s) is (are) not applied for CNAS accreditation yet.
- The limit for composite test should be divided by the mixed number.
- Result(s) shown of tested component(s) (1)~(6) and (10) is/are quoted from CTI test report TLSZF00061943b.
- Result(s) shown of tested component(s) (7) is/are quoted from CTI test report TLSZF00065029a.



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Photo of the sample



*** End of Report ***

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