

Test Report

Report No.: TJD01F002544a

Page 1 of 9

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

Test Conducted:

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

Tested by

Reviewed by

Approved by

Date 2013-07-23

Victor Wang
Lab Manager

No. 1622545789



Test Report

Report No.: TJD01F002544a

Page 2 of 9

Executive Summary:

TEST 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) *****

Test Report

Report No.: TJD01F002544a

Page 4 of 9

▼ 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	Result (mg/kg)				MDL (mg/kg)	Limit (mg/kg)
	(1)	(2)	(3)	(4)		
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 ³⁺)	ND	ND	ND	ND	0.16	460
Chromium (Cr ⁶⁺)	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

Test Report

Report No.: TJD01F002544a

Page 5 of 9

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

Test Report

Report No.: TJD01F002544a

Page 6 of 9

Remark:

- mg/kg = milligram per kilogram = ppm
- ND = Not Detected (less than MDL)
- MDL = Method Detection Limit
- Unless specified, Cr species (Cr³⁺ and Cr⁶⁺) 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
- “※” 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 (%)		MDL (%)	Limit (%)
	(1)/(2)/(3)	(4)		
Cadmium (Cd)	ND	ND	0.0005	0.01

Tested Item	Result (%)			MDL (%)	Limit (%)
	(5)/(6)	(7)	(8)		
Cadmium (Cd)	ND	ND	ND	0.0005	0.01

Tested Component(s):

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

Test Report

Report No.: TJD01F002544a

Page 8 of 9

Tested Item	Result (%)			MDL (%)	Limit (%)
	(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 (%)	Limit (%)
	(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

Test Report

Report No.: TJD01F002544a

Page 9 of 9

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.