



中国认可
国际互认
检测
TESTING
CNAS L2929

Test Report

No.: T51910230180EL

Date: JUN 05, 2019

Page 1 of 10

DOUBLEEAGLE INDUSTRY (CHINA) LIMITED

XINGDA INDUSTRIAL PARK, CHENGHAI DISTRICT,
SHANTOU CITY, GUANGDONG PROVINCE, CHINA

The following samples were submitted and identified by/on behalf of the client as:

Name of Product/Item	: RADIO CONTROL TOYS	
Item No.	: E570-003, E572-003, E578-003	
Test Item No.	: E578-003, E572-003	
Supplier	: DOUBLEEAGLE INDUSTRY (CHINA) LIMITED	
Manufacturer	: DOUBLEEAGLE INDUSTRY (CHINA) LIMITED	
Country of Origin	: CHINA	
Labeled Age Grading	: 6+	
Request Age Grading	: 3+	
Test Age Grading	: 3 YEARS AND ABOVE	
Packaging	: Gift Box	
Power Source for Test	: 1 x 3.6V 400mAh "AA" "Ni-MH" rechargeable battery pack for cement mixer (E578-003) 2 x 1.5V "LR6" size batteries (Duracell) for controller (E578-003) 1 x 3.6V 400mAh "AA" "Ni-MH" rechargeable battery pack for pumping fire truck (E572-003) 2 x 1.5V "LR6" size batteries (Duracell) for controller (E572-003)	
Date of receipt	: APR 12, 2019	Number of sample: 5
Last Submission Sample Date	: MAY 22, 2019	Number of sample: 2
Testing Period	: APR 12, 2019 TO JUN 05, 2019	



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Test Requested		Conclusion
1.	Test for compliance with the electric toys safety requirement with reference to EN 62115: 2005 + A12: 2015.	PASS

***** FOR FURTHER DETAILS, PLEASE REFER TO THE FOLLOWING PAGE(S) *****

Signed for and on behalf of
 SGS-CSTC Standards Technical
 Services Co., Ltd. Shenzhen Branch Testing Center




Xiao Yongbo, Spring
 Supervisor
 CNAS Approved Signatory



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EN 62115 SPECIFICATION REQUIREMENTS & TEST RESULTS

<u>Clause</u>	<u>Assessment</u>
1. Scope	--
2. Normative references	--
3. Definitions	--
4. General requirement	--
5. General conditions for the tests	--
6. Selection of tests	--
7. Marking and instructions	Pass
(Remark: According to the standard, instruction and other texts required by the standard should be written in the official language(s) of the country in which the product is to be sold.)	
8. Power input	N/A
9. Heating and abnormal operation	Pass
10. Electric strength at operating temperature	Pass
11. Moisture resistance	Pass
12. Electric strength at room temperature	Pass
13. Mechanical strength	Pass
14. Construction	Pass
15. Protection of cords and wires	Pass
16. Components	Pass
17. Screws and connections	Pass
18. Creepage distances and clearances	Pass
19. Resistance to heat and fire	Pass
20. Toys incorporating lasers and or light emitting diodes	Pass
Other Radiation, Toxicity and similar hazards	--
(Remark: It is the manufacture's responsibility to ensure the toy does not emit harmful radiation or present a toxic or similar hazard due to their operation in normal use.)	
Toys with an integrated field source shall comply with Annex ZC	N/A
(Remark: The submitted sample did not incorporate part which consuming a current more than 3A.)	

N/A = Not Applicable



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DETAILS OF TEST RESULTS

Clause 6 Criteria for reduced testing

- 6.2 The cement mixer (E578-003) & pumping fire truck (E572-003) was not under the exemption conditions stated in this clause, therefore, clauses 7, 9 to 20 shall be applicable to be tested.
- 6.2 The controller (E578-003) & controller (E572-003) was under the exemption conditions stated in this clause, therefore, only clauses 7, 9, 11.1, 13, 14, 15.2, 16, 17.1,18 and 20 shall be applicable to be tested.

Clause 9 Heating and abnormal operation

- 9.1 No electronic protective circuit prevent the hazardous conditions listed in 9.9 or dangerous malfunction during the tests of 9.8.
- 9.2 The cement mixer (E578-003) & pumping fire truck (E572-003) was placed on the floor of the test corner during normal and abnormal operation.
The controller (E578-003) & controller (E572-003) was freely suspended during normal and abnormal operation.
- 9.3 The rechargeable battery of cement mixer (E578-003) was charged by the battery charger until steady conditions were established. The maximum temperature rises were recorded as follows:

Ambient temperature (°C) : 19.8-21.7

<u>Location</u>	<u>Temperature Rise (K)</u>	<u>Limit (K)</u>
Battery surface	15.5	45

- 9.3 The rechargeable battery of pumping fire truck (E572-003) was charged by the battery charger until steady conditions were established. The maximum temperature rises were recorded as follows:

Ambient temperature (°C) : 19.6-20.7

<u>Location</u>	<u>Temperature Rise (K)</u>	<u>Limit (K)</u>
Battery surface	13.5	45



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9.3 The cement mixer (E578-003) was operated by 1 x 3.6V 400mAh “AA” “Ni-MH” rechargeable battery pack and the controller (E578-003) was operated by 2 x 1.5V “LR6” size batteries (Duracell) until steady conditions were established. The maximum temperature rises were recorded as follows:

Ambient temperature (°C) : 20.7-21.5

<u>Location</u>	<u>Temperature Rise (K)</u>	<u>Limit (K)</u>
<u>Cement mixer (E578-003)</u>		
Battery surface	11.4	45
Enclosure (near PCB)	16.3	50
Enclosure (near motor for rear wheel)	2.6	50
Enclosure (near motor for front wheel)	1.8	50
Enclosure (near motor for blender)	2.2	50
Surface of LED	1.8	50
<u>Controller (E578-003)</u>		
Battery surface	1.8	45
Enclosure (near PCB & LED)	0.9	35

9.3 The pumping fire truck (E572-003) was operated by 1 x 3.6V 400mAh “AA” “Ni-MH” rechargeable battery pack and the controller (E572-003) was operated by 2 x 1.5V “LR6” size batteries (Duracell) until steady conditions were established. The maximum temperature rises were recorded as follows:

Ambient temperature (°C) : 19.9-20.5

<u>Location</u>	<u>Temperature Rise (K)</u>	<u>Limit (K)</u>
<u>Cement mixer (E578-003)</u>		
Battery surface	14.7	45
Enclosure (near PCB)	1.4	50
Enclosure (near motor for rear wheel)	11.7	50
Enclosure (near motor for front wheel)	10.2	50
Enclosure (near motor for pupming)	1.7	50
Surface of LED	0.3	50
<u>Controller (E578-003)</u>		
Battery surface	0.1	45
Enclosure (near PCB & LED)	0.1	35



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9.6 The cement mixer (E578-003) was operated by 1 x 3.6V 400mAh “AA” “Ni-MH” rechargeable battery pack with accessible moving parts (Front wheel) locked for 30 seconds. The maximum temperature rises were recorded as follows:

Ambient temperature (°C) : 20.8-21.0

<u>Location</u>	<u>Temperature Rise (K)</u>	<u>Limit (K)</u>
Battery surface	1.6	45
Enclosure (near PCB)	1.6	50
Enclosure (near motor for rear wheel)	0.8	50
Enclosure (near motor for front wheel)	0.2	50
Enclosure (near motor for blender)	1.0	50
Surface of LED	1.0	50

9.6 The cement mixer (E578-003) was operated by 1 x 3.6V 400mAh “AA” “Ni-MH” rechargeable battery pack with accessible moving parts (Rear wheel) locked for 30 seconds. The maximum temperature rises were recorded as follows:

Ambient temperature (°C) : 20.8-21.0

<u>Location</u>	<u>Temperature Rise (K)</u>	<u>Limit (K)</u>
Battery surface	1.8	45
Enclosure (near PCB)	1.8	50
Enclosure (near motor for rear wheel)	1.1	50
Enclosure (near motor for front wheel)	0.4	50
Enclosure (near motor for blender)	0.2	50
Surface of LED	0.2	50



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9.6 The cement mixer (E578-003) was operated by 1 x 3.6V 400mAh “AA” “Ni-MH” rechargeable battery pack with accessible moving parts (Blender) locked for 30 seconds. The maximum temperature rises were recorded as follows:

Ambient temperature (°C) : 20.8-21.0

<u>Location</u>	<u>Temperature Rise (K)</u>	<u>Limit (K)</u>
Battery surface	2.1	45
Enclosure (near PCB)	2.1	50
Enclosure (near motor for rear wheel)	0.3	50
Enclosure (near motor for front wheel)	0.7	50
Enclosure (near motor for blender)	0.5	50
Surface of LED	0.5	50

9.6 The pumping fire truck (E572-003) was operated by 1 x 3.6V 400mAh “AA” “Ni-MH” rechargeable battery pack (front wheel) locked for 30 seconds. The maximum temperature rises were recorded as follows:

Ambient temperature (°C) : 20.4-20.8

<u>Location</u>	<u>Temperature Rise (K)</u>	<u>Limit (K)</u>
Battery surface	0.3	45
Enclosure (near PCB)	0.3	50
Enclosure (near motor for rear wheel)	0.4	50
Enclosure (near motor for front wheel)	2.0	50
Enclosure (near motor for pupming)	1.5	50
Surface of LED	0.7	50

9.6 The unit was operated by 3 x 1.5V “LR6” size batteries (Duracell) with accessible moving parts (bottom wheel) locked for 30 seconds. The maximum temperature rises were recorded as follows:

Ambient temperature (°C) : 20.4-20.8

<u>Location</u>	<u>Temperature Rise (K)</u>	<u>Limit (K)</u>
Battery surface	0.6	45
Enclosure (near PCB)	0.6	50
Enclosure (near motor for rear wheel)	0.7	50
Enclosure (near motor for front wheel)	2.3	50
Enclosure (near motor for pupming)	1.8	50
Surface of LED	1.0	50

9.6 This clause was not applicable to the unit since there was no any accessible moving part on it.(for pumping motor of pumping fire truck (E572-003))



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9.8 The unit was evaluated and found to comply with the relevant requirement.

Clause 16 Components

16.2 The sample tested was not fitted with a mercury switch or thermal cut-out which could be reset by a soldering operation.

Clause 19 Resistance to heat and fire

19.2.1 Glow-wire test (550 °C) in accordance with IEC 60695-2-11

Location / Part

Result / Observation

Cement mixer (E578-003) & pumping fire truck (E572-003)
The battery compartment cover

No flame, no molten drop



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Detail of Radiation, toxicity and similar hazards

LED in this unit shall be classified Class 1 in accordance with IEC 60825-1.

Part under test	Wavelength	Emission Duration	Measured Accessible Emission Level (MAEL)	Limit	MAEL / Limit	Comment	
White LED for cement mixer (E578-003)	a)	450.0 nm	100 sec.	0.8 mJ	3.9 mJ	<1	Pass
		563.0 nm	100 sec.	0.5 mJ	709.7 mJ		
	b)	450.0 nm	100 sec.	290.0 μW	4251.0 μW	<1	Pass
		563.0 nm	100 sec.	250.0 μW	4251.0 μW		
Red LED for controller (E578-003)	a)	630.0 nm	100 sec.	N/A	N/A	N/A	N/A
	b)	630.0 nm	100 sec.	72.0 μW	390.0 μW	<1	Pass
Red LED of USB for item E578-003	a)	629.0 nm	100 sec.	N/A	N/A	N/A	N/A
	b)	629.0 nm	100 sec.	41.0 μW	390.0 μW	<1	Pass
White LED for pumping fire truck (E572-003)	a)	450.0 nm	100 sec.	0.4 mJ	3.9 mJ	<1	Pass
		560.0 nm	100 sec.	0.2 mJ	618.1 mJ		
	b)	450.0 nm	100 sec.	288.0 μW	4585.4 μW	<1	Pass
		560.0 nm	100 sec.	243.0 μW	4585.4 μW		
Red LED for controller (E572-003)	a)	630.0 nm	100 sec.	N/A	N/A	N/A	N/A
	b)	630.0 nm	100 sec.	76.0 μW	390.0 μW	<1	Pass
Red LED of USB for item E572-003	a)	630.0 nm	100 sec.	N/A	N/A	N/A	N/A
	b)	630.0 nm	100 sec.	45.0 μW	390.0 μW	<1	Pass

Remark: a) For Retinal Photochemical Hazard
 b) For Retinal Thermal Hazard
 N/A = Not Applicable

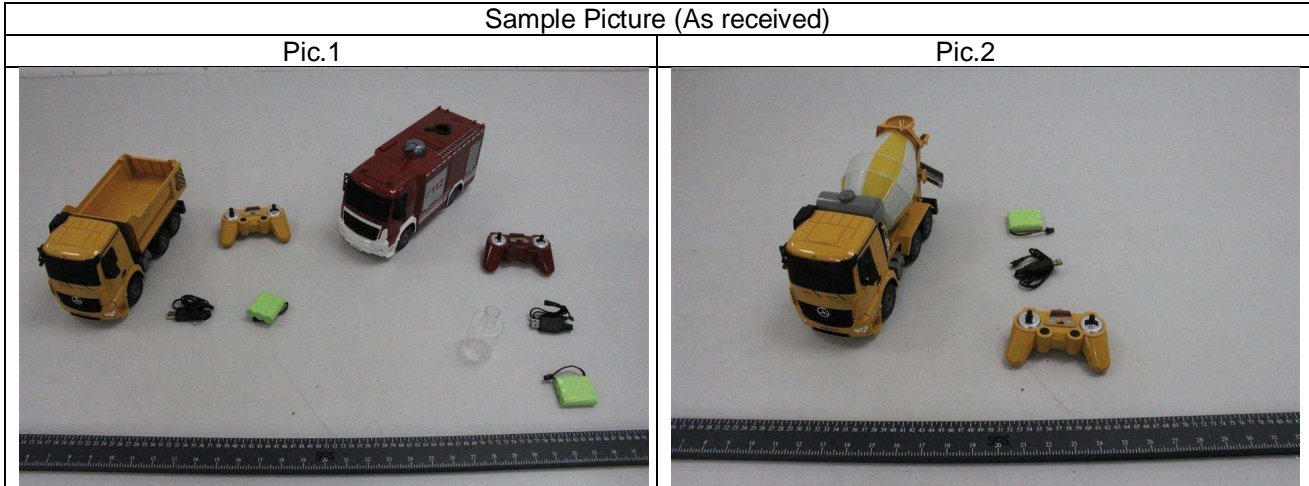


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