TEST REPORT

Applicant: GUANGDONG HUINA MODEL CO LTD
NO 9 XIN XING FIVE ROAD
XIN NING CHENGHAI DISTRICT
SHANTOU CITY
GUANGDONG PROVINCE
CHINA 515800

Number: HKGH02606399

Date: Aug 12, 2020

Submitted sample said to be :
Item Name : **Truck.**
Item No. : **1310,1320,1330,1340,1350,1360,1370,1380,1390,**
1331,1332,1333,1334,1335,1336,1337,1338,1339,
1510,1520,1530,1540,1550,1560,1570,1580,1590,
1511,1512,1513,1514,1515,1516,1517,1518,1519,
1521,1522,1523,1524,1525,1526,1527,1528,1529,
1531,1532,1533,1534,1535,1536,1537,1538,1539,
1551,1552,1553,1554,1555,1556,1557,1558,1559,
1561,1562,1563,1564,1565,1566,1567,1568,1569,
1571,1572,1573,1574,1575,1576,1577,1578,1579,
1581,1582,1583,1584,1585,1586,1587,1588,1589,
1591,1592,1593,1594,1595,1596,1597,1598,1599.
Labelled Age Group : 8+.
Packaging Provided : Yes.
Country of Origin : China.
Quantity : 2 Sets.

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Conclusion:
The submitted sample was tested under the following requirements requested by the applicant, subject to the information stated in the remark and attached page(s) for details :

Requirement	Result
(1) RoHS Directive (2011/65/EU) - Restriction of the Use of certain Hazardous Substances in Electrical and Electronic Equipment	Pass
(2) RoHS Directive (2011/65/EU) and amendment Commission Delegated Directive (EU) 2015/863 with effective from 22 July 2019 - Phthalates content	Pass

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For and on behalf of :
Intertek Testing Services HK Ltd.

Cindy I.K. Chan
Vice President

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(1) RoHS Test

(A) Result :

Screened Components	XRF Results (mg/kg)					Chemical Confirmation Result
	Cd	Pb	Hg	Cr	Br	
(1)	ND	ND	ND	ND	ND	--
(2)	ND	ND	ND	ND	ND	--
(3)	ND	ND	ND	ND	ND	--
(4)	ND	ND	ND	ND	ND	--
(5)	ND	ND	ND	ND	ND	--
(6)	ND	ND	ND	ND	NA	--
(7)	ND	ND	ND	#	NA	Cr^{6+}:ND
(8)	ND	ND	ND	ND	ND	--
(9)	ND	ND	ND	ND	ND	--
(10)	ND	ND	ND	ND	ND	--
(11)	ND	ND	ND	ND	ND	--
(12)	ND	ND	ND	ND	ND	--
(13)	ND	ND	ND	ND	ND	--
(14)	ND	ND	ND	ND	ND	--
(15)	ND	ND	ND	ND	ND	--
(16)	ND	ND	ND	ND	ND	--
(17)	ND	ND	ND	ND	ND	--
(18)	ND	ND	ND	ND	ND	--
(19)	ND	ND	ND	ND	NA	--
(20)	ND	ND	ND	ND	ND	--
(21)	ND	ND	ND	ND	ND	--
(22)	ND	ND	ND	ND	ND	--
(23)	ND	ND	ND	ND	ND	--
(24)	ND	ND	ND	ND	ND	--
(25)	ND	ND	ND	ND	#	PBBs:ND PBDEs:ND
(26)	ND	ND	ND	ND	NA	--
(27)	ND	ND	ND	ND	NA	--
(28)	ND	ND	ND	ND	ND	--
(29)	ND	ND	ND	ND	ND	--
(30)	ND	ND	ND	ND	NA	--
(31)	ND	ND	ND	ND	#	PBBs:ND PBDEs:ND
(32)	ND	ND	ND	ND	NA	--
(33)	ND	ND	ND	ND	ND	--
(34)	ND	ND	ND	ND	ND	--
(35)	ND	ND	ND	ND	ND	--
(36)	ND	ND	ND	ND	NA	--
(37)	ND	ND	ND	ND	ND	--
(38)	ND	#2	ND	ND	ND	--
(39)	ND	#2	ND	ND	ND	--
(40)	ND	ND	ND	ND	NA	--
(41)	ND	#2	ND	ND	ND	--
(42)	ND	ND	ND	ND	ND	--
(43)	ND	#2	ND	ND	ND	--
(44)	ND	ND	ND	ND	#	PBBs:ND

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Screened Components	XRF Results (mg/kg)					Chemical Confirmation Result
	Cd	Pb	Hg	Cr	Br	
						PBDEs:ND
(45)	ND	ND	ND	ND	NA	--
(46)	ND	ND	ND	ND	NA	--
(47)	ND	ND	ND	ND	ND	--
(48)	ND	ND	ND	ND	NA	--
(49)	ND	ND	ND	ND	NA	--
(50)	ND	ND	ND	ND	ND	--
(51)	ND	ND	ND	ND	NA	--
(52)	ND	ND	ND	ND	ND	--
(53)	ND	ND	ND	ND	ND	--
(54)	ND	ND	ND	ND	NA	--
(55)	ND	ND	ND	ND	NA	--
(56)	ND	ND	ND	#	NA	Cr^{6+}:ND
(57)	ND	ND	ND	#	NA	Cr^{6+}:ND
(58)	ND	ND	ND	ND	NA	--
(59)	ND	#1	ND	ND	NA	--
(60)	ND	ND	ND	ND	ND	--
(61)	ND	ND	ND	#	NA	Cr^{6+}:ND
(62)	ND	ND	ND	ND	NA	--
(63)	ND	ND	ND	ND	NA	--
(64)	ND	ND	ND	ND	#	PBBs:ND PBDEs:ND
(65)	ND	ND	ND	ND	ND	--
(66)	ND	ND	ND	ND	NA	--
(67)	ND	ND	ND	#	NA	Cr^{6+}:ND
(68)	ND	ND	ND	ND	ND	--
(69)	ND	ND	ND	ND	NA	--
(70)	ND	ND	ND	ND	NA	--
(71)	ND	ND	ND	ND	ND	--
(72)	ND	ND	ND	ND	NA	--
(73)	ND	ND	ND	ND	NA	--
(74)	ND	ND	ND	ND	NA	--
(75)	ND	ND	ND	#	ND	Cr^{6+}:ND
(76)	ND	ND	ND	ND	ND	--
(77)	ND	ND	ND	ND	NA	--
(78)	ND	ND	ND	ND	ND	--
(79)	ND	ND	ND	ND	NA	--
(80)	ND	ND	ND	#	ND	Cr^{6+}:ND
(81)	ND	ND	ND	ND	ND	--
(82)	ND	ND	ND	ND	NA	--
(83)	ND	ND	ND	ND	ND	--
(84)	ND	ND	ND	#	NA	Cr^{6+}:ND
(85)	ND	ND	ND	ND	NA	--
(86)	ND	ND	ND	ND	ND	--
(87)	ND	ND	ND	ND	ND	--
(88)	ND	ND	ND	ND	NA	--
(89)	ND	ND	ND	ND	NA	--
(90)	ND	ND	ND	ND	ND	--
(91)	ND	ND	ND	ND	NA	--
(92)	ND	ND	ND	ND	NA	--
(93)	ND	ND	ND	ND	NA	--

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Screened Components	XRF Results (mg/kg)					Chemical Confirmation Result
	Cd	Pb	Hg	Cr	Br	
(94)	ND	ND	ND	ND	ND	--
(95)	ND	ND	ND	ND	ND	--
(96)	ND	ND	ND	ND	NA	--
(97)	ND	ND	ND	ND	ND	--
(98)	ND	ND	ND	ND	NA	--
(99)	ND	ND	ND	#	ND	Cr^{6+}:ND
(100)	ND	ND	ND	ND	ND	--
(101)	ND	ND	ND	ND	NA	--
(102)	ND	ND	ND	ND	ND	--
(103)	ND	ND	ND	#	NA	Cr^{6+}:ND
(104)	ND	ND	ND	ND	NA	--
(105)	ND	ND	ND	ND	ND	--
(106)	ND	ND	ND	ND	ND	--
(107)	ND	ND	ND	ND	NA	--
(108)	ND	ND	ND	ND	NA	--
(109)	ND	ND	ND	ND	ND	--
(110)	ND	ND	ND	ND	NA	--
(111)	ND	ND	ND	ND	NA	--
(112)	ND	ND	ND	ND	NA	--
(113)	ND	ND	ND	#	ND	Cr^{6+}:ND
(114)	ND	ND	ND	ND	ND	--
(115)	ND	ND	ND	ND	NA	--
(116)	ND	ND	ND	ND	ND	--
(117)	ND	ND	ND	ND	NA	--
(118)	ND	ND	ND	#	ND	Cr^{6+}:ND
(119)	ND	ND	ND	ND	ND	--
(120)	ND	ND	ND	ND	NA	--
(121)	ND	ND	ND	ND	ND	--
(122)	ND	ND	ND	#	NA	Cr^{6+}:ND
(123)	ND	ND	ND	ND	NA	--
(124)	ND	ND	ND	ND	#	PBBs:ND PBDEs:ND
(125)	ND	ND	ND	ND	#	PBBs:ND PBDEs:800 mg/kg
(126)	ND	ND	ND	ND	NA	--
(127)	ND	ND	ND	ND	NA	--
(128)	ND	ND	ND	ND	#	PBBs:ND PBDEs:ND
(129)	ND	ND	ND	ND	NA	--
(130)	ND	ND	ND	ND	NA	--
(131)	ND	ND	ND	ND	ND	--
(132)	ND	ND	ND	ND	ND	--
(133)	ND	ND	ND	ND	NA	--
(134)	ND	ND	ND	ND	NA	--
(135)	ND	ND	ND	ND	NA	--
(136)	ND	ND	ND	ND	ND	--
(137)	ND	ND	ND	ND	NA	--
(138)	ND	ND	ND	#	NA	Cr^{6+}:ND
(139)	ND	ND	ND	ND	NA	--
(140)	ND	ND	ND	#	NA	Cr^{6+}:ND
(141)	ND	ND	ND	#	NA	Cr^{6+}:ND

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Screened Components	XRF Results (mg/kg)					Chemical Confirmation Result
	Cd	Pb	Hg	Cr	Br	
(142)	ND	ND	ND	ND	NA	--
(143)	ND	ND	ND	ND	NA	--
(144)	ND	ND	ND	ND	NA	--
(145)	ND	ND	ND	ND	NA	--
(146)	ND	ND	ND	ND	ND	--
(147)	ND	ND	ND	ND	ND	--
(148)	ND	ND	ND	ND	ND	--
(149)	ND	ND	ND	ND	ND	--
(150)	ND	ND	ND	ND	NA	--
(151)	ND	ND	ND	ND	ND	--
(152)	ND	ND	ND	ND	NA	--
(153)	ND	ND	ND	ND	#	PBBs:ND PBDEs:ND
(154)	ND	ND	ND	ND	ND	--
(155)	ND	ND	ND	ND	ND	--
(156)	ND	ND	ND	ND	NA	--
(157)	ND	ND	ND	ND	NA	--
(158)	ND	ND	ND	ND	NA	--

ND : Not Detected

NA : Not Applicable

D : Detected : Below the lower screening limit of table(B) and pass.

ppm : part per million = mg/kg

: Inconclusive

#1 : As confirmed by the client, the Lead content of the component is coming from copper alloy only. According to EU RoHS Directive, Lead as an alloying element in copper alloy can be containing up to 4% (40,000 ppm) Lead by weight. The lead content result was found below this limit.

#2 : As confirmed by the client, the Lead content of the component is coming from the constituent of glass used in cathode ray tube. According to EU RoHS Directive, Lead in glass of this component can be exempted.

List of Polybrominated Biphenyls (PBBs) and Polybrominated Diphenyl Ethers (PBDEs) in chemical confirmation test:

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PBBs	PBDEs
Monobromobiphenyl (monoBB)	Monobromodiphenyl ether (MonoBDE)
Dibromobiphenyl (DiBB)	Dibromodiphenyl ether (DiBDE)
Tribromobiphenyl (TriBB)	Tribromodiphenyl ether (TriBDE)
Tetrabromobiphenyl (TetraBB)	Tetrabromodiphenyl ether (TetraBDE)
Pentabromobiphenyl (PentaBB)	Pentabromodiphenyl ether (PentaBDE)
Hexabromobiphenyl (HexaBB)	Hexabromodiphenyl ether (HexaBDE)
Heptabromobiphenyl (HeptaBB)	Heptabromodiphenyl ether (HeptaBDE)
Octabromobiphenyl (OctaBB)	Octabromodiphenyl ether (OctaBDE)
Nonabromobiphenyl (NonaBB)	Nonabromodiphenyl ether (NonaBDE)
Decabromobiphenyl (DecaBB)	Decabromodiphenyl ether (DecaBDE)

(B) XRF screening limits in mg/kg for regulated elements in various matrices

Element	Polymer Materials	Metallic Materials	Composite Materials
Cd	P ≤ 70 < X < 130 ≤ F	P ≤ 70 < X < 130 ≤ F	P ≤ 70 < X < 150 ≤ F
Pb	P ≤ 700 < X < 1300 ≤ F	P ≤ 700 < X < 1300 ≤ F	P ≤ 500 < X < 1500 ≤ F
Hg	P ≤ 700 < X < 1300 ≤ F	P ≤ 700 < X < 1300 ≤ F	P ≤ 500 < X < 1500 ≤ F
Cr	P ≤ 700 < X	P ≤ 700 < X	P ≤ 500 < X
Br	P ≤ 300 < X	Not applicable	P ≤ 250 < X

P = Pass
X = Inconclusive result
F = Fail
mg/kg = milligram per kilogram = ppm

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(C) Estimated detection limits in mg/kg for regulated elements in various matrices

Element	Polymer Materials	Metallic Materials	Composite Materials
Cd	50	70	70
Pb	100	200	200
Hg	100	200	200
Cr	100	200	200
Br	200	Not Applicable	200

Disclaimers:

This XRF screening report is for reference purposes only. The applicant shall make Its/His/Her own judgement as to whether the information provided in this XRF screening report is sufficient for Its/His/Her purposes.

The results shown in this XRF screening report will differ based on various factors, including but not limited to, the sample size, thickness, area, surface flatness, equipment parameters and matrix effect (e.g. Plastic, Rubber, Metal, Glass, Ceramic etc.). Further wet chemical pre-treatment with relevant chemical equipment analysis are required to obtain quantitative data.

(D) Test Methods

Testing Item	Testing Method	Reporting Limit
XRF screening	With reference to IEC 62321-3-1 edition 1.0 : 2013, by X-ray fluorescence spectrometry	Refer to (C)
Cadmium (Cd) Content	With reference to IEC 62321-5 edition 1.0 : 2013, by acid digestion and determined by ICP-OES	10 mg/kg
Lead (Pb) Content	With reference to IEC 62321-5 edition 1.0 : 2013, by acid digestion and determined by ICP-OES	10 mg/kg
Mercury (Hg) Content	With reference to IEC 62321-4 edition 1.0 : 2013, by acid digestion and determined by ICP-OES	10 mg/kg
Chromium (VI) (Cr^{6+}) Content (For Non-Metal)	With reference to IEC 62321 edition 1.0 : 2008, by alkaline digestion and determined by UV-VIS spectrophotometer	1 mg/kg
Chromium (VI) (Cr^{6+}) Content (For Leather)	With reference to EN ISO17075: 2007, by phosphate butter extraction and determined by UV-VIS spectrophotometer	1 mg/kg
Chromium (VI) (Cr^{6+}) Content (For Metal)	With reference to IEC 62321-7-1 : 2015, by boiling water extraction and determined by UV-VIS spectrophotometer	0.1 $\mu g/cm^2$
Polybrominated Biphenyls (PBBs) & Polybrominated Diphenyl Ethers (PBDEs)	With reference to IEC 62321-6 : 2015, by solvent extraction and determined by GC/MS.	20 mg/kg

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The explanation of Chromium VI (Cr^{6+}) analysis result (For Metal)

Colorimetric result	Qualitative result	Explanation
< 0.10 μg/cm^2	Negative	The result of sample is negative for Cr (VI). The sample coating is considered a non-Cr(VI) based coating.
≥ 0.10 μg/cm^2 and ≤ 0.13 μg/cm^2	Inconclusive	The result of sample is considered to be inconclusive. If addition samples are available, recommend to add trials and get the average result for the final determination.
> 0.13 μg/cm^2	Positive	The result of sample is positive for Cr(VI). The sample coating is considered to contain Cr(VI).A result expresses as positive, while not an actual value, which indicates a visual observation was used.

(E) RoHS requirements

Restricted substances	Limits
Cadmium (Cd)	0.01% (100 ppm)
Lead (Pb)	0.1% (1000 ppm)
Mercury (Hg)	0.1% (1000 ppm)
Chromium (VI) (Cr^{6+})	0.1% (1000 ppm)
Polybrominated biphenyls (PBBs)	0.1% (1000 ppm)
Polybrominated diphenyl ethers (PBDEs)	0.1% (1000 ppm)

The above limits were quoted from Annex II of 2011/65/EU.

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Tested Components:

(1) Muddy yellow plastic with coatings (excavator, remote control).
(2) Black plastic (excavator).
(3) Dull black plastic (track, hose, sideview mirror, vertical exhaust).
(4) Dark grey plastic with dark silver color coating (cover of battery compartment).
(5) Transparent plastic (window).
(6) Silver color metal with dark silver color coating (blade of excavator).
(7) Silver color metal (lift cylinder).
(8) Red plastic (wire insulator).
(9) Yellow plastic (wire insulator).
(10) Dark blue plastic (wire insulator).
(11) Black plastic (wire insulator).
(12) White plastic (wire insulator).
(13) Red plastic (thin wire insulator).
(14) Dark blue plastic (thin wire insulator).
(15) Black plastic (thin wire insulator).
(16) White plastic (thin wire insulator).
(17) Black plastic (power cord jacket).
(18) Dull black plastic (strain relief).
(19) Copper color metal (wire).
(20) White plastic (housing).
(21) Green plastic (housing).
(22) Blue plastic (housing).
(23) Muddy yellow plastic (housing).
(24) Red plastic (housing, housing slot).
(25) Ivory plastic (housing slot).
(26) Silver color metal (terminal of housing).
(27) Silver color metal (pin of housing slot).
(28) Green plastic (case of leaf switch).
(29) Black plastic (button of leaf switch).
(30) Silver color metal (contact plate of leaf switch).
(31) Transparent plastic (LED).
(32) Silver color metal (lead of LED).
(33) Black plastic with white printing (jacket of electrolytic capacitor).
(34) Silver color body (body of electrolytic capacitor).
(35) Black plastic (base of electrolytic capacitor).
(36) Silver color metal (lead of electrolytic capacitor).
(37) Black body with silver color metal (SMD IC).
(38) Light brown body with silver color metal (SMD capacitor).
(39) Brown body with silver color metal (SMD capacitor).
(40) Silver color metal (flat oscillator).
(41) White body with black printing with silver color metal (SMD resistor).
(42) Black body with silver color metal (SMD transistor).
(43) Black body with silver color metal (SMD triode).
(44) Green fibre board (PCB).
(45) Solder (on PCB).
(46) Silver color metal (frame of slide switch).
(47) Black plastic (switch of slide switch).
(48) Dull silver color metal (spring of slide switch).
(49) Silver color metal (clip of slide switch).

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Tested Components:

(50) Light brown fibre board (PCB of slide switch).
(51) Silver color metal (lead of slide switch).
(52) Off white plastic (gear).
(53) Ivory plastic (gear).
(54) Silver color metal (axle of gear).
(55) Blue plated metal (axle of gear).
(56) Blue plated metal (spring of gear).
(57) Silver color metal (spring of gear).
(58) Black plated metal (spring of gear).
(59) Gold color metal (ring of gear).
(60) Black plastic (frame of speaker).
(61) Iridescent plated metal (magnet holder of speaker).
(62) Dark grey metal (magnet of speaker).
(63) Solder (on speaker).
(64) Light brown fibre board (PCB of speaker).
(65) Transparent plastic (diaphragm of speaker).
(66) Copper color metal (coil of speaker).
(67) Iridescent plated metal (magnet cover of speaker).
(68) Ivory plastic (cap of motor).
(69) Gold color metal (washer of cap of motor).
(70) Copper color metal (contact plate of motor).
(71) Dark copper color body (carbon brush of motor).
(72) Copper color metal (washer of motor).
(73) Silver grey metal (case of motor).
(74) Dull silver color metal (U clip of motor).
(75) Dark grey metal with yellow printing (magnet of motor).
(76) White plastic (ring of motor).
(77) Gold color metal (ring of motor).
(78) Red paper (ring of commutator of motor).
(79) Copper color metal (commutator case of motor).
(80) Dark grey body with silver color printing (commutator holder of motor).
(81) Light brown plastic (commutator of motor).
(82) Copper color metal (coil of motor).
(83) White plastic (rotor cover of motor).
(84) Silver color metal (rotor of motor).
(85) Silver color metal (axle of motor).
(86) Yellow plastic (cap of yellow motor).
(87) Light brown plastic (contact plate holder of yellow motor).
(88) Gold color metal (washer of cap of yellow motor).
(89) Copper color metal (contact plate of yellow motor).
(90) Dark copper color body (carbon brush of yellow motor).
(91) Copper color metal (washer of yellow motor).
(92) Silver grey metal (case of yellow motor).
(93) Dull silver color metal (U clip of yellow motor).
(94) Dark grey metal with yellow printing (magnet of yellow motor).
(95) White plastic (ring of yellow motor).
(96) Gold color metal (ring of yellow motor).
(97) Red paper (ring of commutator of yellow motor).
(98) Copper color metal (commutator case of yellow motor).
(99) Dark grey body with silver color printing (commutator holder of yellow motor).

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Tested Components:

(100) Light brown plastic (commutator of yellow motor).
(101) Copper color metal (coil of yellow motor).
(102) White plastic (rotor cover of yellow motor).
(103) Silver color metal (rotor of yellow motor).
(104) Silver color metal (axle of yellow motor).
(105) Dark blue plastic (cap of blue motor).
(106) Light brown plastic (contact plate holder of blue motor).
(107) Gold color metal (washer of cap of blue motor).
(108) Copper color metal (contact plate of blue motor).
(109) Dark copper color body (carbon brush of blue motor).
(110) Copper color metal (washer of blue motor).
(111) Silver grey metal (case of blue motor).
(112) Dull silver color metal (U clip of blue motor).
(113) Dark grey metal with yellow printing (magnet of blue motor).
(114) White plastic (ring of blue motor).
(115) Gold color metal (ring of blue motor).
(116) Red paper (ring of commutator of blue motor).
(117) Copper color metal (commutator case of blue motor).
(118) Dark grey body with silver color printing (commutator holder of blue motor).
(119) Light brown plastic (commutator of blue motor).
(120) Copper color metal (coil of blue motor).
(121) White plastic (rotor cover of blue motor).
(122) Silver color metal (rotor of blue motor).
(123) Silver color metal (axle of blue motor).
(124) Transparent red plastic (LED).
(125) Black plastic (holder of LED).
(126) Silver color metal (lead of LED).
(127) Silver color metal (frame of tactile switch).
(128) Black plastic (button and case of tactile switch).
(129) Silver/ copper color metal (contact plate of tactile switch).
(130) Silver color metal (lead of tactile switch).
(131) Paper label (black,white) coatings (sticker).
(132) Brown/ green fibre board (PCB).
(133) Silver color metal (battery spring).
(134) Silver color metal (battery contact plate).
(135) Solder (on contact plate).
(136) Dark blue plastic (washer of nut).
(137) Blue plated metal (nut).
(138) Blue plated metal (torsion spring).
(139) Blue plated metal (nail).
(140) Silver color metal (nail).
(141) Blue plated metal (screw).
(142) Blue plated metal (washer screw).
(143) Dark silver color metal (screw).
(144) Dark silver color metal (washer screw).
(145) Dark silver color metal (weight).
(146) Yellow plastic (jacket of battery).
(147) Translucent red plastic (housing).
(148) Black plastic with white printing (wire insulator of USB plug).
(149) Translucent black plastic (box of USB plug).

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Intertek Testing Services Hong Kong Limited
2/F Garment Centre
576 Castle Peak Road
Kowloon, Hong Kong
Tel +852 2173 8888
Fax +852 2786 1903
intertek.com.hk

TEST REPORT

Number : HKGH02606399

Tested Components:

(150) Silver color metal (case of USB plug).
(151) Dark grey body (core of inductor).
(152) Copper color metal (coil of inductor).
(153) Light brown/ green fibre board (PCB of USB plug).
(154) Black body with silver color metal (SMD diode).
(155) Transparent body (SMD LED).
(156) Gold color metal (contact plate holder of motor).
(157) Gold color metal (contact plate holder of yellow motor).
(158) Gold color metal (contact plate holder of blue motor).

Date sample received : Jun 19, 2020 and Jul 02, 2020
Test Period : Jun 19, 2020 to Jul 13, 2020

(2) Phthalate Content Test

Test Method : IEC 62321-8:2017, by Gas Chromatographic-Mass Spectrometric (GC-MS) analysis.

Compound	Result (%, w/w)			Limit (%, w/w)
	(1)	(2/3/4)	(5/6/7)	
Dibutyl phthalate (DBP)	<0.01	<0.01	<0.01	0.1
Diethyl hexyl phthalate (DEHP)	<0.01	<0.01	<0.01	0.1
Benzyl butyl phthalate (BBP)	<0.01	<0.01	<0.01	0.1
Diisobutyl phthalate (DIBP)	<0.01	<0.01	<0.01	0.1

Compound	Result (%, w/w)			Limit (%, w/w)
	(8/9/10)	(11/12/13)	(14/15/16)	
Dibutyl phthalate (DBP)	<0.01	<0.01	<0.01	0.1
Diethyl hexyl phthalate (DEHP)	<0.01	<0.01	<0.01	0.1
Benzyl butyl phthalate (BBP)	<0.01	<0.01	<0.01	0.1
Diisobutyl phthalate (DIBP)	<0.01	<0.01	<0.01	0.1

Compound	Result (%, w/w)			Limit (%, w/w)
	(17/18/19)	(20/21)	(22)	
Dibutyl phthalate (DBP)	<0.01	<0.01	<0.01	0.1
Diethyl hexyl phthalate (DEHP)	<0.01	<0.01	<0.01	0.1
Benzyl butyl phthalate (BBP)	<0.01	<0.01	<0.01	0.1
Diisobutyl phthalate (DIBP)	<0.01	<0.01	<0.01	0.1

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Compound	Result (%, w/w)			Limit (%, w/w)
	(23/24/25)	(26)	(27)	
Dibutyl phthalate (DBP)	<0.01	0.03	0.06	0.1
Diethyl hexyl phthalate (DEHP)	<0.01	<0.01	<0.01	0.1
Benzyl butyl phthalate (BBP)	<0.01	<0.01	<0.01	0.1
Diisobutyl phthalate (DIBP)	<0.01	<0.01	<0.01	0.1

Compound	Result (%, w/w)			Limit (%, w/w)
	(28)	(29)	(30)	
Dibutyl phthalate (DBP)	0.03	0.05	<0.01	0.1
Diethyl hexyl phthalate (DEHP)	<0.01	0.02	<0.01	0.1
Benzyl butyl phthalate (BBP)	<0.01	<0.01	<0.01	0.1
Diisobutyl phthalate (DIBP)	<0.01	<0.01	<0.01	0.1

Compound	Result (%, w/w)			Limit (%, w/w)
	(31)	(32/33/34)	(35/36/37)	
Dibutyl phthalate (DBP)	<0.01	<0.01	<0.01	0.1
Diethyl hexyl phthalate (DEHP)	<0.01	<0.01	<0.01	0.1
Benzyl butyl phthalate (BBP)	<0.01	<0.01	<0.01	0.1
Diisobutyl phthalate (DIBP)	<0.01	<0.01	<0.01	0.1

Compound	Result (%, w/w)			Limit (%, w/w)
	(38/39/40)	(41/42/43)	(44)	
Dibutyl phthalate (DBP)	<0.01	<0.01	<0.01	0.1
Diethyl hexyl phthalate (DEHP)	<0.01	<0.01	<0.01	0.1
Benzyl butyl phthalate (BBP)	<0.01	<0.01	<0.01	0.1
Diisobutyl phthalate (DIBP)	<0.01	<0.01	<0.01	0.1

Compound	Result (%, w/w)			Limit (%, w/w)
	(45)	(46)	(47)	
Dibutyl phthalate (DBP)	<0.01	<0.01	<0.01	0.1
Diethyl hexyl phthalate (DEHP)	<0.01	<0.01	<0.01	0.1
Benzyl butyl phthalate (BBP)	<0.01	<0.01	<0.01	0.1
Diisobutyl phthalate (DIBP)	<0.01	<0.01	<0.01	0.1

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The above limit was quoted according to Commission Delegated Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU (known as RoHS Directive).

The restriction of DEHP, BBP and DBP shall not apply to toys which are already subject to the restriction of DEHP, BBP and DBP through entry 51 of Annex XVII to Regulation (EC) No 1907/2006.

Tested Components:

(1) Coatings on sample (sticker; body of controller, car; shovel, joint of arm, battery cover of car).
(2) Muddy yellow plastic (body of controller, car).
(3) Translucent red plastic (LED of controller).
(4) Dim black plastic (on/ off switch of controller).
(5) Red plastic (socket of cord; plug of battery compartment of car).
(6) Shiny black plastic (wire covering of cord).
(7) Dull black plastic (bushing of wire covering of cord).
(8) Black plastic (USB plug of cord).
(9) Dull grey plastic (plate of USB plug of cord).
(10) Shiny yellow plastic sheet with black printing (wrapping of battery).
(11) Dark black plastic (wire covering of battery).
(12) Dark red plastic (wire covering of battery).
(13) Transparent red plastic (plug of battery).
(14) Dark blue plastic (ring of nuts).
(15) Bright black plastic (tube, periscope of battery cover, tire of car).
(16) Transparent plastic (windshield of car).
(17) Translucent off-white plastic (gear of car).
(18) Matte black plastic (battery cover of car).
(19) Deep black plastic (frame of windshield, side mirror of car).
(20) Sharp black plastic (bottom of car).
(21) Matte dark black plastic (on/ off switch of car).
(22) White paper label excluding (white, black) coatings (sticker).
(23) Black plastic (button of controller) (internal).
(24) Green/ brown PCB (PCB of button of controller) (internal).
(25) Pale brown PCB (PCB of on/ off switch) (internal).
(26) Shiny red plastic (wire covering) (internal).
(27) Shiny black plastic (wire covering) (internal).
(28) Yellow plastic (wire covering) (internal).
(29) White plastic (wire covering) (internal).
(30) Green plastic sheet with white printing (cover of capacitor) (internal).
(31) Dim black plastic (base of capacitor) (internal).
(32) Snow white plastic (plug of car) (internal).
(33) Beige plastic (socket of car) (internal).
(34) Shiny blue plastic (plug of car) (internal).
(35) Grass green plastic (plug of car) (internal).
(36) Dark yellow plastic (plug of car) (internal).
(37) Sky blue plastic (plug of car) (internal).
(38) Dark green plastic (leaf button) (internal).
(39) Shiny bright black plastic (leaf button) (internal).
(40) Shiny green PCB (main PCB of car) (internal).
(41) Transparent glue (holder) (internal).
(42) Pale black plastic with translucent glue (case of speaker) (internal).

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Tested Components:

(43) Black PCB (PCB of speaker) (internal).
(44) Transparent plastic (film of speaker) (internal).
(45) Transparent plastic (LED) (internal).
(46) Plastic parts of motor (internal).
(47) Blue plastic (wire covering) (internal).

Date sample received : Jun 19, 2020, Jul 07, 2020 and Aug 06, 2020
Test Period : Jun 19, 2020 to Aug 08, 2020

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TESTED COMPONENTS PHOTOS OF HJ02606399

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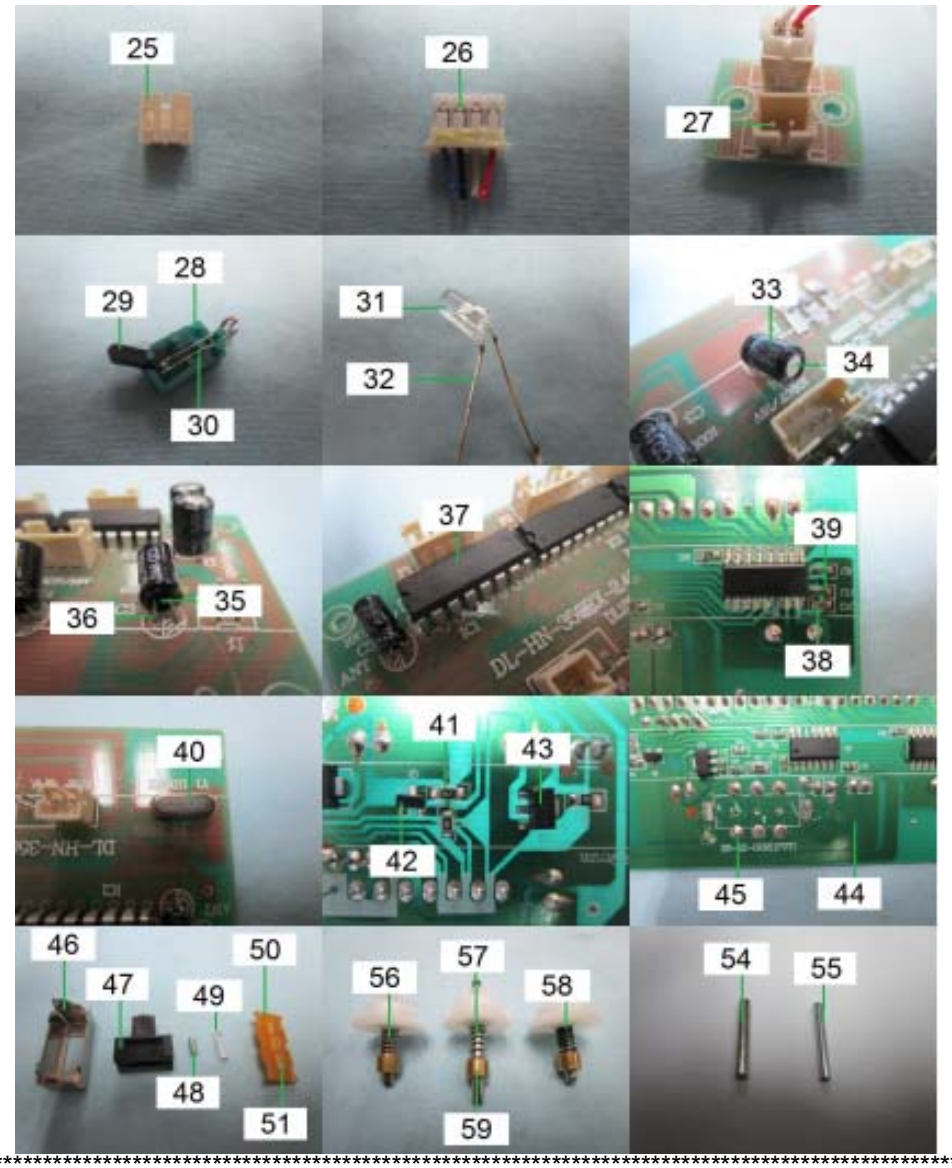

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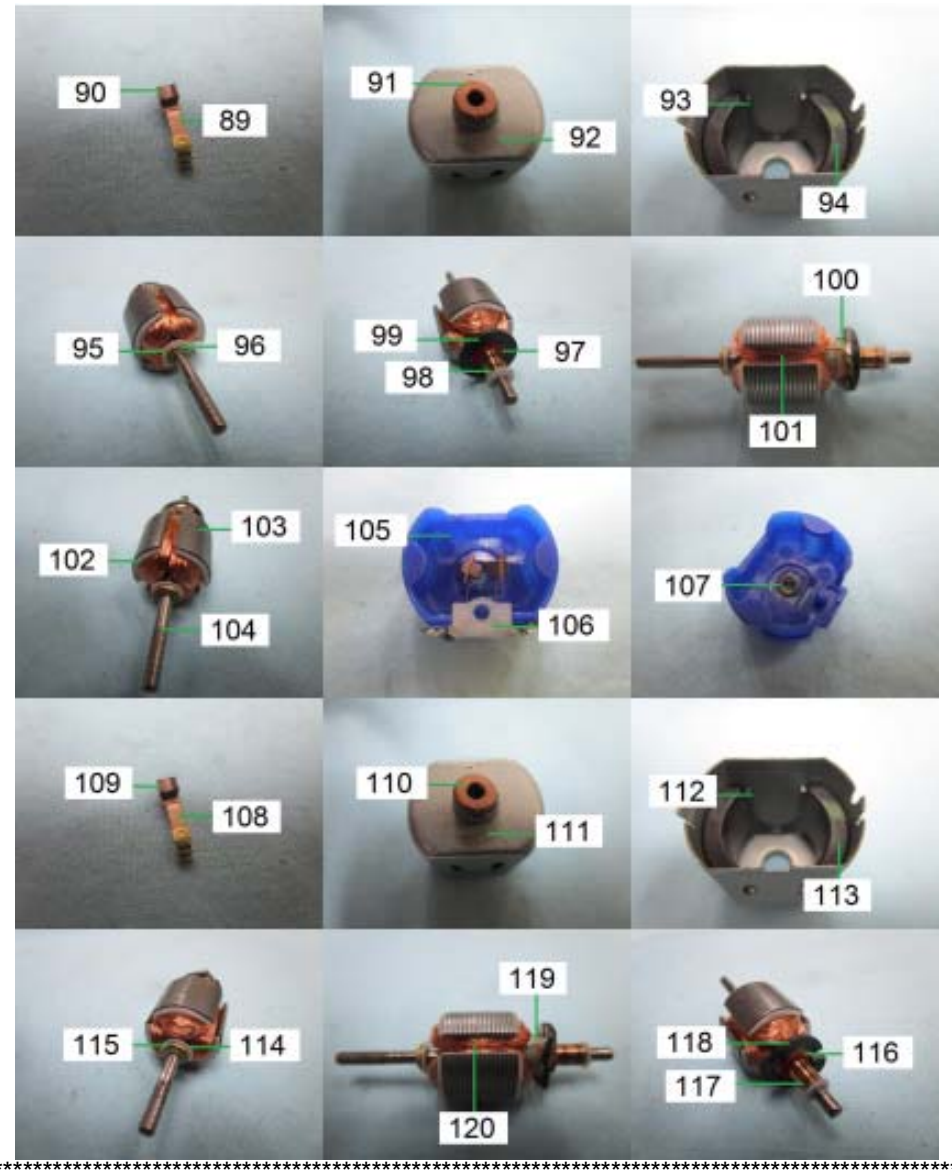

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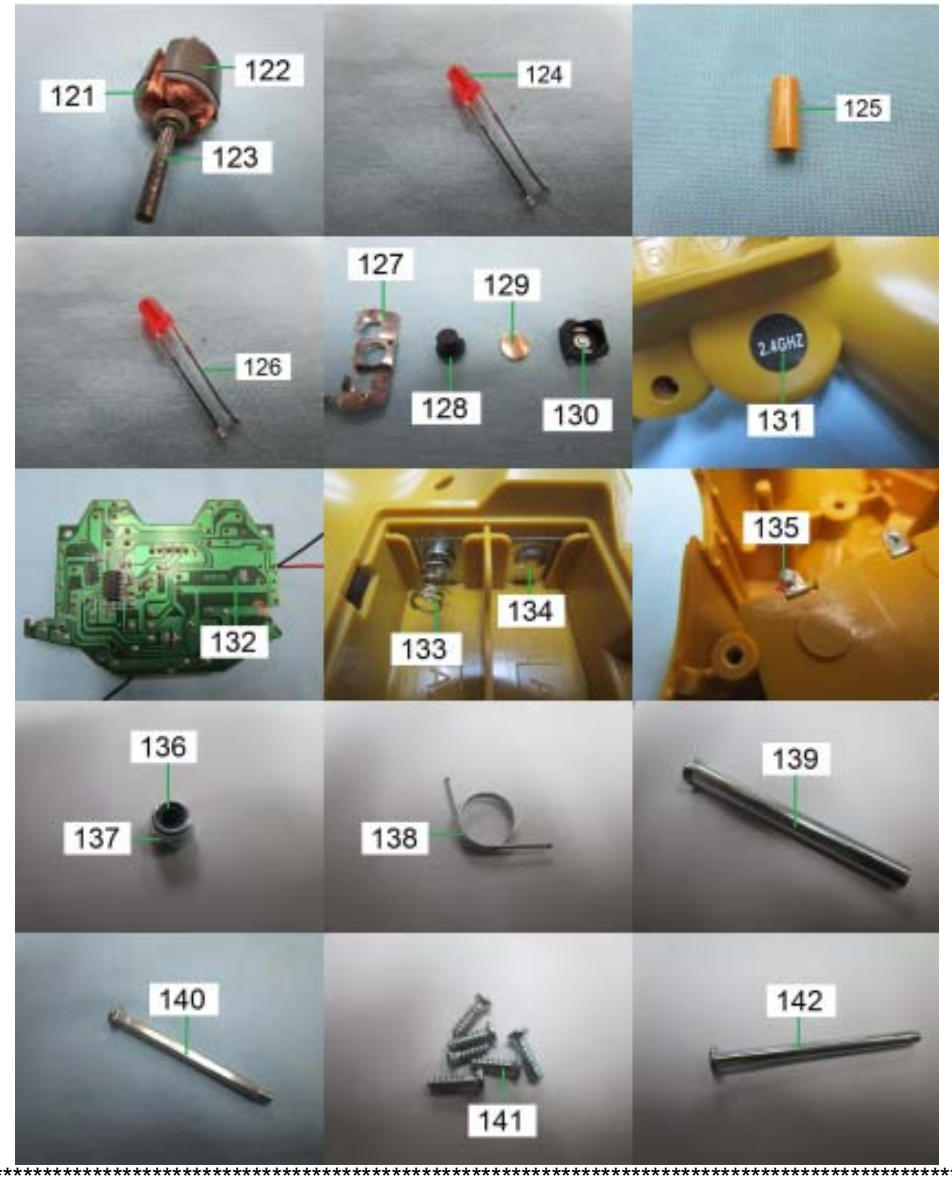

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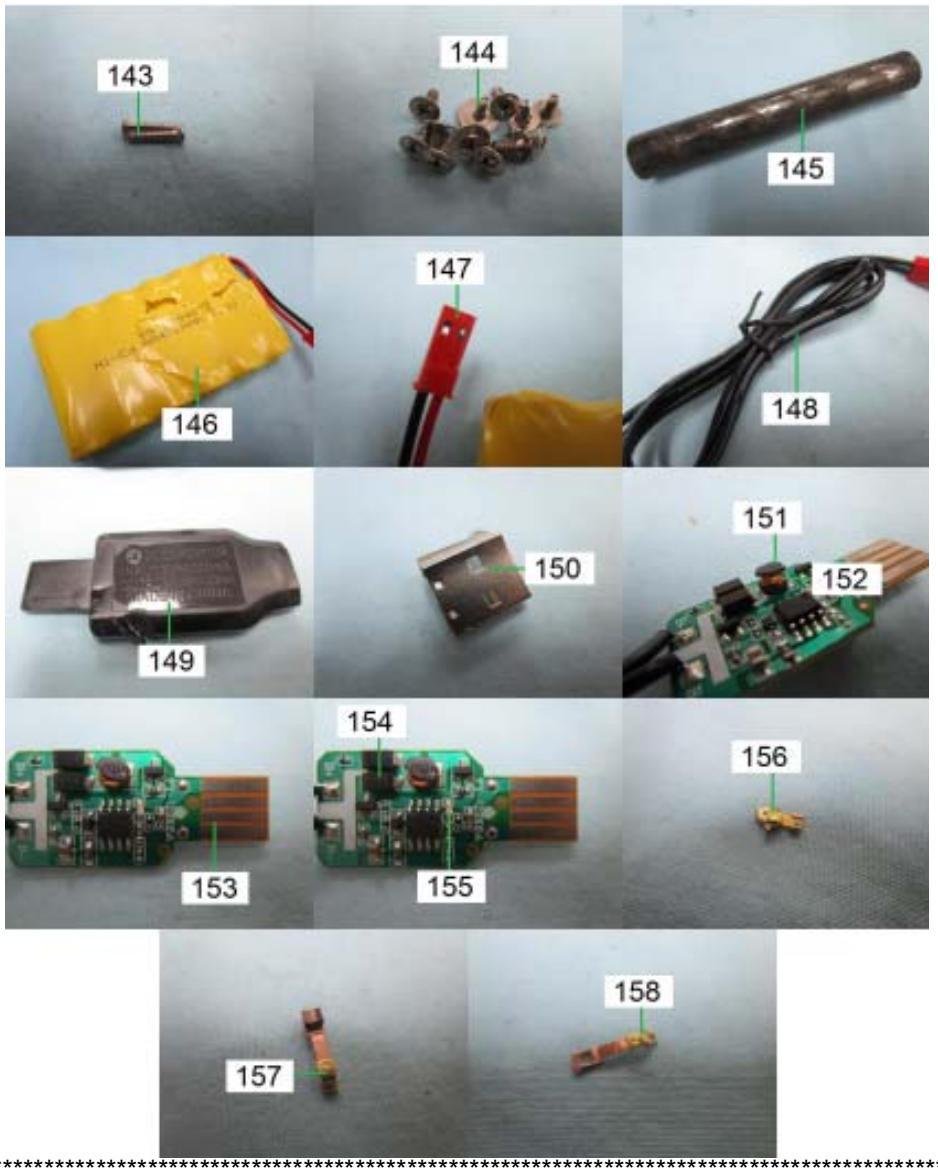

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End of report

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