Test Report

Report No.: SZC15072280185-1 Date: Aug. 15, 2015 Page 1 of 9

Applicant: FOSHAN CITY SHUNDE DISTRICT LEPUDA MOTOR CO LTD

Address : No.3, Industry 3 Road,Bijiang Industrial Area, Beijiao Town, Shunde District, Foshan City

Report on the submitted sample(s) said to be:

Sample Name: 烤箱电机

Sample Description: Please refer to following page(s).

Sample No.: QT1507228018501

Sample Received Date: July 23, 2015

Testing Period: July 23, 2015 – Aug. 15, 2015

Result Summary: As requested by applicant, the submitted sample(s) was/were tested, which is listed as specimen description in the following page(s).

Test Requested	**Result**
In accordance with Directive EU RoHS Directive 2011/65/EU and its amendment Directive EU 2015/863 on the restriction of the use of certain hazardous substances in electrical and electronic equipment.	PASS

******** For Further Details, Please Refer to the following page(s) ********

Checked by

Angela

Angela

Signed for and on behalf of HCT

Michael

Laboratory Manager

No.	Sample Description
1	Silvery metal screw
2	Silvery metal sheet
3	Silvery metal base (shaft)
4	Silvery metal sheet (base)
5	Copper metal ring (base)
6	Cream lubricants (base)
7	Black plastic (base)
8	Silvery metal ring (shaft washer)
9	Silvery metal with black coating (shaft)
10	Silvery metal fan (shaft)
11	Silvery metal tripod (shaft)
12	Silvery metal sheet (tripod)
13	Copper metal ring (tripod)
14	Black plastic washer (shaft)
15	Beige plastic (shaft)
16	Light green coating (shaft)
17	Silvery metal shaft (shaft)
18	Silvery metal cylinder (shaft)
19	Silvery metal inserts (Transformers)
20	Silvery metal solder (inserts)
21	Silvery metal sheet (Transformers)
22	Copper metal (Transformers)
23	White fabric with viscose (Transformers)
24	Copper enamelled wire (Transformers)
25	Beige plastic (transformers)
26	Black printed silvery plastic stickers (Transformers)

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Results:

1） Refer to IEC 62321-3-1:2013, screening by XRF Spectroscopy.

2） Chemical Method:

Refer to IEC62321-5:2013, determination of Lead & Cadmium by ICP/ AAS;
Refer to IEC62321-4:2013, determination of Mercury by ICP/ CV-AAS;
Refer to IEC 62321:2008, determination of Hexavalent Chromium by Spot test/ boiling water extraction (metal sample), Colorimetric Method(nonmetal);
Refer to IEC 62321:2008, determination of PBB and PBDE by GC/MS.

Test Results by XRF:

No.	Results				
	Pb	Cd	Cr	Hg	Br
1	BL	BL	BL	BL	NC
2	BL	BL	IN	BL	NC
3	IN	IN	IN	BL	NC
4	BL	BL	IN	BL	NC
5	BL	BL	IN	BL	NC
6	BL	BL	BL	BL	BL
7	BL	BL	BL	BL	BL
8	BL	BL	IN	BL	NC
9	BL	BL	IN	BL	NC
10	BL	BL	IN	BL	NC
11	IN	BL	IN	BL	NC
12	BL	BL	IN	BL	NC
13	BL	BL	IN	BL	NC
14	BL	BL	BL	BL	BL
15	BL	BL	BL	BL	BL
16	BL	BL	BL	BL	BL
17	BL	BL	IN	BL	NC
18	BL	BL	IN	BL	NC
19	BL	BL	BL	BL	NC
20	BL	BL	BL	BL	NC
21	BL	BL	IN	BL	NC
22	BL	BL	BL	BL	NC
23	BL	BL	BL	BL	BL
24	BL	BL	BL	BL	NC
25	BL	BL	BL	BL	IN
26	BL	BL	BL	BL	BL

Note: BL = Below Limit by XRF analysis
IN = Inconclusive (questionable, need further chemical analysis)
NC = Not Conducted

Remark:

(1) Results were obtained by XRF for primary screening, and further chemical testing by ICP/AAS (for Cd, Pb, Hg), UV-VIS (for CrVI) and GC/MS (for PBBs/PBDEs) are recommended to be performed, if the concentration exceeds the below warning value according to IEC 62321-3-1:2013.

Unit: mg/kg

Element	Non-metal	Metal	Composite Material
Cd	BL ≤ 30 < X < 120≤ OL	BL ≤ 30 < X < 120≤ OL	BL ≤ 30 < X < 120≤ OL
Pb	BL ≤ 100 < X < 1200 ≤ OL	BL ≤ 100 < X < 1200 ≤ OL	BL ≤ 80< X < 1300 ≤ OL
Hg	BL ≤ 100 < X < 1200 ≤ OL	BL ≤ 100 < X < 1200 ≤ OL	BL ≤ 80< X < 1300 ≤ OL
Br	BL ≤ 200 < X	--	BL ≤ 200 < X
Cr	BL ≤ 200< X	BL ≤ 200 < X	BL ≤ 150< X

BL = below limit
OL = over limit
X = Inconclusive

(2) The XRF screening test for RoHS elements – The reading may be different to the actual content in the sample be of non-uniformity composition.

(3) The maximum permissible limit is quoted from RoHS directive 2011/65/EU:

RoHS Restricted Substances	Maximum Concentration Value (by weight in homogenous materials)
Lead (Pb)	0.1%
Cadmium (Cd)	0.01%
Mercury (Hg)	0.1%
Hexavalent Chromium (Cr VI)	0.1%
Polybrominated biphenyls (PBBs)	0.1%
Polybrominated diphenylethers (PBDEs)	0.1%

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Test results by Chemical method:

Lead(Pb) test result(s): Unit: %

Test Item	Content		MDL	RoHS Limit
	3	11		
Lead(Pb)	0.0514	0.0566	0.0002	0.1

Note:

0.1% = 1000ppm (mg/kg)

MDL = Method Detection Limit

Cadmium(Cd) test result(s): Unit: %

Test Item	Content	MDL	RoHS Limit
	3		
Cadmium (Cd)	0.0023	0.0002	0.01

Note:

0.1% = 1000ppm (mg/kg)

MDL = Method Detection Limit

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Hexavalent Chromium(Cr(VI)) (metal) test results:

Test Item	Content					MDL	RoHS Limit
	2	3	4	5	8		
Hexavalent Chromium(Cr(VI))	Negative	Negative	Negative	Negative	Negative	◇	#

Test Item	Content				MDL	RoHS Limit
	9	10	11	12		
Hexavalent Chromium(Cr(VI))	Negative	Negative	Negative	Negative	◇	#

Test Item	Content				MDL	RoHS Limit
	13	17	18	21		
Hexavalent Chromium(Cr(VI))	Negative	Negative	Negative	Negative	◇	#

Note: MDL=method detection limit

◇**=Spot-test:**

Negative= Absence of Cr(VI) coating /surface layer

Positive = Presence of Cr(VI) coating /surface layer

The tested sample should be further verified by boiling –water –extraction method if the spot-test result cannot be confirmed.

Boiling-water-extraction:

Negative = The detected Cr(VI) concentration in boiling solution is less than 0.02mg/kg with 50 cm^2 sample surface area.

Positive = The detected Cr(VI) concentration in boiling solution is equal or greater than 0.02mg/kg with 50 cm^2 sample surface area.

#= Positive indicates the presence of Cr(VI) on the tested areas.

Negative indicates the absence of Cr(VI) on the tested areas.

Storage conditions and production date of the tested sample are unavailable and thus result of Cr(VI) represent status of the sample at the time of testing.

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PBBs and PBDEs test results: Unit: %

Test Items	Content	MDL	RoHS Limit
	25		
Sum of PBBs	**N.D.**	—	**0.1**
Monobromobiphenyl	N.D.	0.0005	—
Dibromobiphenyl	N.D.	0.0005	
Tribromobiphenyl	N.D.	0.0005	
Tetrabromobiphenyl	N.D.	0.0005	
Pentabromobiphenyl	N.D.	0.0005	
Hexabromobiphenyl	N.D.	0.0005	
Heptabromobiphenyl	N.D.	0.0005	
Octabromobiphenyl	N.D.	0.0005	
Nonabromobiphenyl	N.D.	0.0005	
Decabromobiphenyl	N.D.	0.0005	
Sum of PBDEs	**N.D.**	—	**0.1**
Monobromodiphenyl ether	N.D.	0.0005	—
Dibromodiphenyl ether	N.D.	0.0005	
Tribromodiphenyl ether	N.D.	0.0005	
Tetrabromodiphenyl ether	N.D.	0.0005	
Pentabromodiphenyl ether	N.D.	0.0005	
Hexabromodiphenyl ether	N.D.	0.0005	
Heptabromodiphenyl ether	N.D.	0.0005	
Octabromodiphenyl ether	N.D.	0.0005	
Nonabromodiphenyl ether	N.D.	0.0005	
Decabromodiphenyl ether	N.D.	0.0005	

Note: 0.1%=1000ppm(mg/kg)

MDL=method detection limit

N.D.=not detected (less than method detection limit)

"—" Not regulated

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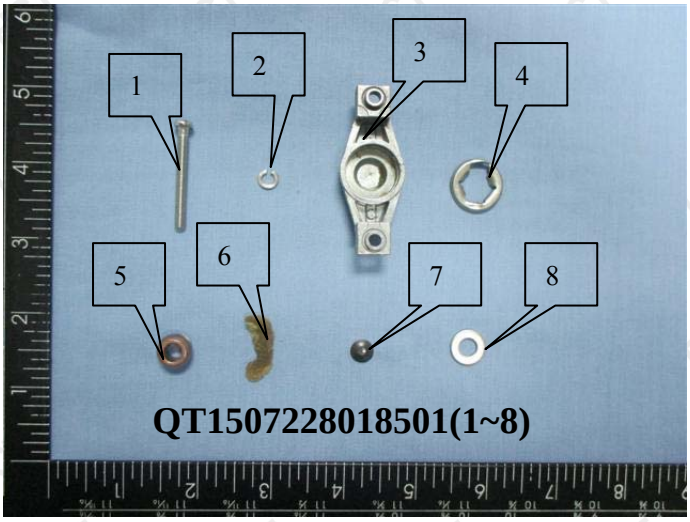
The photo of the sample



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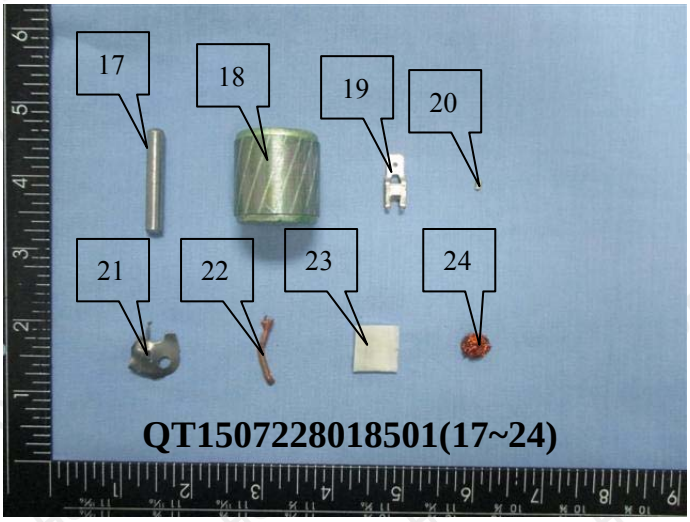

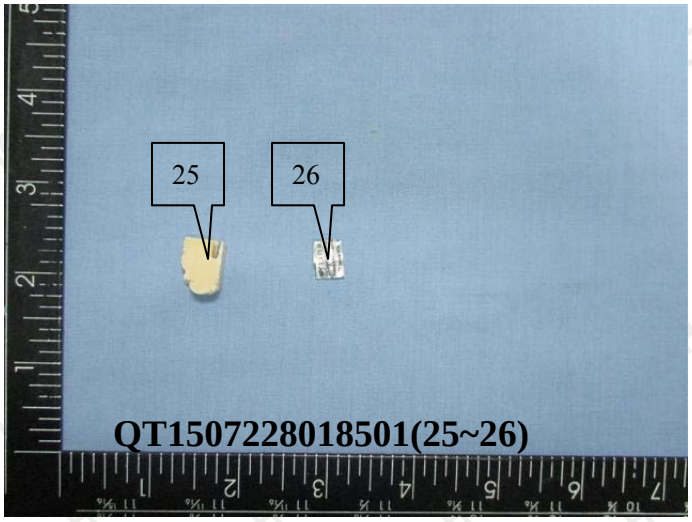

***End ***

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