

**Verification Report** No.: NGBEC24005095001 **Date:** Sep 23, 2024 Page 1 of 9

Client Name: LEFOO INDUSTRIAL CO.,LTD  
 Client Address: NO.118 CHANGDA ROAD, LINPING STREET, LINPING DISTRICT, HANGZHOU CITY, ZHEJIANG PROVINCE

Sample Name: Brushless DC Pump  
 Tested Basic Model No.: LFP  
 Buyer: Midea

The above sample(s) and information were provided by the client.

SGS Job No.: SHP24-029022  
 Sample Receiving Date: Sep 05, 2024  
 Verification Period: Sep 05, 2024 ~ Sep 23, 2024  
 Verification Requested: With reference to RoHS Directive (EU) 2015/863 amending 2011/65/EU.  
 Verification Method(s): Please refer to next page(s).  
 Verification Result(s): Please refer to next page(s).

**Test Result Summary:**

Test Items	Conclusion
EU RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU and client's requirement- Lead, Mercury, Cadmium, Hexavalent chromium, Polybrominated biphenyls (PBB), Polybrominated diphenyl ethers (PBDE), Bis(2-ethylhexyl) phthalate (DEHP), Butyl benzyl phthalate (BBP), Dibutyl phthalate (DBP) and Diisobutyl phthalate (DIBP)	Pass

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

*Damon Li*

Damon Li  
 Approved Signatory

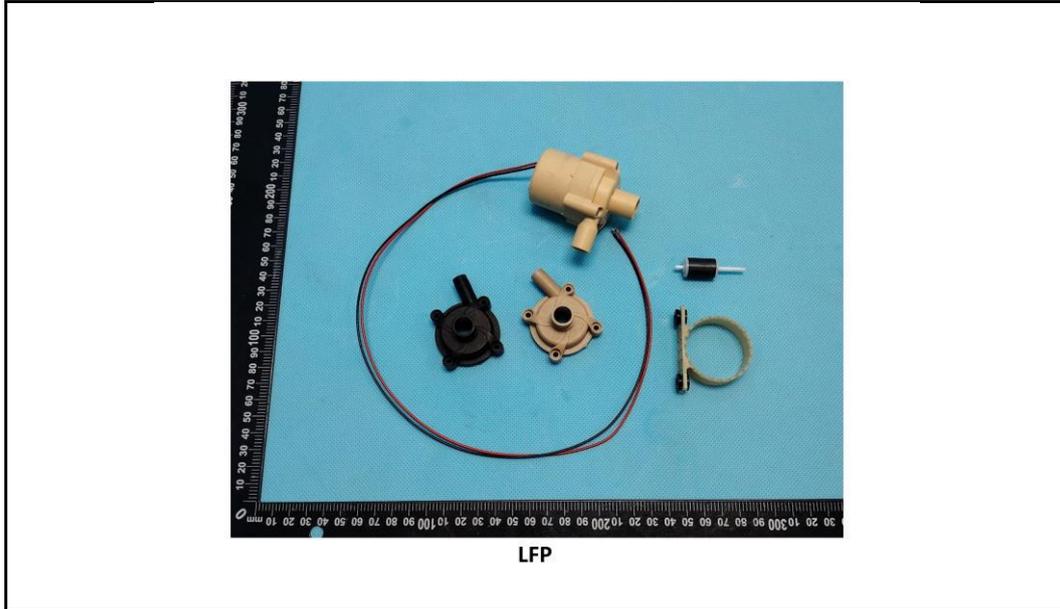
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05D6427B



Photo of Submitted Sample



**Verification Method(s):**

1. With reference to IEC 62321-2:2021, disassembly and disjointment were performed for the submitted samples.
2. With reference to IEC 62321-1:2013, tests were performed for the samples indicated by the photos in this report.
  - (1) With reference to IEC 62321-3-1:2013, screening by EDXRF spectroscopy.
  - (2) Wet chemical test method: With reference to IEC 62321-4:2013+A1:2017, IEC62321-5:2013, IEC 62321-7-1:2015, IEC 62321-7-2:2017, IEC 62321-12:2023, IEC 62321-6:2015 and IEC62321-8:2017 , analyzed by ICP-OES,UV-Vis and GC-MS.



SGS-CS18 Standards Technical Services Co., Ltd.  
Ningbo Branch Chemical Laboratory

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**Verification Part Description:**

SN ID	Sample No.	SGS Sample ID	Description
SN1	A1	NGB24-0050950-0001.C001	White plastic bracket
SN2	A2	NGB24-0050950-0001.C002	Black magnet
SN3	A3	NGB24-0050950-0001.C003	Light brown plastic bracket
SN4	A4	NGB24-0050950-0001.C004	Black plastic bracket
SN5	A5	NGB24-0050950-0001.C005	Beige plastic bracket
SN6	A6	NGB24-0050950-0001.C006	Black rubber lump
SN7	A7	NGB24-0050950-0001.C007	Black plastic bracket
SN8	A8	NGB24-0050950-0001.C008	Gray solid adhesive
SN9	A9	NGB24-0050950-0001.C009	Beige plastic bracket
SN10	A10	NGB24-0050950-0001.C010	Beige plastic bracket
SN11	A11	NGB24-0050950-0001.C011	Beige plastic bracket
SN12	A12	NGB24-0050950-0001.C012	Beige plastic bracket
SN13	A13	NGB24-0050950-0001.C013	Beige plastic bracket
SN14	A14	NGB24-0050950-0001.C014	Black plastic sheath
SN15	A15	NGB24-0050950-0001.C015	Black plastic bracket
SN16	A16	NGB24-0050950-0001.C016	Black plastic shell
SN17	A17	NGB24-0050950-0001.C017	Black magnet
SN18	A18	NGB24-0050950-0001.C018	Silvery metal screw
SN19	A19	NGB24-0050950-0001.C019	Red plastic jacket
SN20	A20	NGB24-0050950-0001.C020	Black plastic jacket
SN21	A21	NGB24-0050950-0001.C021	Black diode body
SN22	A22	NGB24-0050950-0001.C022	Semitransparent rubber ring
SN23	A23	NGB24-0050950-0001.C023	White plastic piece
SN24	A24	NGB24-0050950-0001.C024	Black rubber lump
SN25	A25	NGB24-0050950-0001.C025	Green PCB body
SN26	A26	NGB24-0050950-0001.C026	Silvery metal soldering tin



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**Verification Result(s):**

(Unless otherwise specified, the unit is mg/kg).

Test Item(s)	A1	A2	A3	A4	A5	A6	A7	A8
Pb	BL							
Hg	BL							
Cd	BL							
Cr(VI)▼	BL							
PBB	BL							
PBDE	BL							
DEHP	ND	---	ND	ND	ND	ND	ND	ND
BBP	ND	---	ND	ND	ND	ND	ND	ND
DBP	ND	---	ND	ND	ND	ND	ND	ND
DIBP	ND	---	ND	ND	ND	ND	ND	ND
Conclusion	PASS							

Test Item(s)	A9	A10	A11	A12	A13	A14	A15	A16
Pb	BL							
Hg	BL							
Cd	BL							
Cr(VI)▼	BL							
PBB	BL							
PBDE	BL							
DEHP	ND							
BBP	ND							
DBP	ND							
DIBP	ND							
Conclusion	PASS							

Test Item(s)	A17	A18	A19	A20	A21	A22	A23	A24
Pb	BL							
Hg	BL							
Cd	BL							
Cr(VI)▼	BL	ND	BL	BL	BL	BL	BL	BL
PBB	BL	---	BL	BL	BL	BL	ND	BL
PBDE	BL	---	BL	BL	BL	BL	ND	BL
DEHP	---	---	ND	ND	ND	ND	ND	ND
BBP	---	---	ND	ND	ND	ND	ND	ND
DBP	---	---	ND	ND	ND	ND	ND	ND
DIBP	---	---	ND	ND	ND	ND	ND	ND
Conclusion	PASS							

Test Item(s)	A25	A26
Pb	BL	BL
Hg	BL	BL
Cd	BL	BL
Cr(VI)▼	BL	BL
PBB	ND	---



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Test Item(s)	A25	A26
PBDE	ND	---
DEHP	ND	---
BBP	ND	---
DBP	ND	---
DIBP	ND	---
Conclusion	PASS	PASS



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**Notes:**

(1) Interpretation of screening results by X-ray fluorescence spectrometry (XRF):

(a) Screening limits in mg/kg for regulated elements in various matrices according to the client's limits.

Element	Polymer	Metal	Composite Materials
Cd	$BL \leq (50-3\sigma) < X < (90+3\sigma) \leq OL$	$BL \leq (50-3\sigma) < X < (90+3\sigma) \leq OL$	$LOD < X < (90+3\sigma) \leq OL$
Pb	$BL \leq (400-3\sigma) < X < (800+3\sigma) \leq OL$	$BL \leq (400-3\sigma) < X < (800+3\sigma) \leq OL$	$BL \leq (300-3\sigma) < X < (900+3\sigma) \leq OL$
Hg	$BL \leq (400-3\sigma) < X < (800+3\sigma) \leq OL$	$BL \leq (400-3\sigma) < X < (800+3\sigma) \leq OL$	$BL \leq (300-3\sigma) < X < (900+3\sigma) \leq OL$
Br	$BL \leq (200-3\sigma) < X$	Not applicable	$BL \leq (150-3\sigma) < X$
Cr	$BL \leq (400-3\sigma) < X$	$BL \leq (400-3\sigma) < X$	$BL \leq (300-3\sigma) < X$

(b) If the maximum allowed level restricts PBB/PBDE and Cr(VI) rather than Br and Cr, the exceptions are the XRF determinations of Br and Cr. If the quantitative results for the elements Br and/or Cr are higher than the limit (for Br calculated based on the stoichiometry of Br in the most common congeners of PBB/PBDE), the sample is "inconclusive".

(c) Results are obtained by EDXRF for primary screening, LOD = Limit of Detection, BL = Below Limit, OL= Over Limit, IN (The symbol X marks the region)=Inconclusive, where further investigation is necessary, and further chemical testing by ICP-OES (for Cd, Pb, Hg), UV-Vis (for Cr(VI)) and GC-MS (for PBB/PBDE) are recommended to be performed.

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

(2) Screening results of Phthalates (PHTH) below the limits are shown as "BL". Further chemical testing by GC-MS is to be performed if the results exceed limits.

Test Items	CAS No.
Bis(2-ethylhexyl) phthalate (DEHP)	117-81-7
Butyl benzyl phthalate (BBP)	85-68-7
Dibutyl phthalate (DBP)	84-74-2
Diisobutyl phthalate (DIBP)	84-69-5

(3) Interpretation of results by chemical tests:

(a) mg/kg = 0.0001%, MDL=Method detection Limit, ND = Not Detected (<MDL), --- = Not Applicable.

(b) Unit and MDL in wet chemical test

Test Items	Pb	Hg	Cd	DEHP	BBP	DBP	DIBP
Unit	mg/kg						
MDL	10	10	10	100	100	100	100

The MDL for single compound of PBB and PBDE is 100 mg/kg,  
MDL of Cr(VI) for polymer, composite and leather sample is 10 mg/kg.  
MDL of Cr(VI) for metal sample is 0.10 µg/cm<sup>2</sup>.

(c) ▼ =Metal sample

- The sample is positive for Cr(VI) if the Cr(VI) concentration is greater than 0.13 µg/cm<sup>2</sup>. The sample coating is considered to contain Cr(VI).
- The sample is negative for Cr(VI) if Cr(VI) is ND (concentration less than 0.10 µg/cm<sup>2</sup>). The coating is considered a non-Cr(VI) based coating
- The result between 0.10 µg/cm<sup>2</sup> and 0.13 µg/cm<sup>2</sup> is considered to be inconclusive-unavoidable coating variations may influence the determination

Information on storage conditions and production date of the tested sample is unavailable and thus



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Cr(VI) results represent status of the sample at the time of testing.

(4) The client limit of Lead, Mercury, Hexavalent chromium (no metal), Polybrominated biphenyls (PBB) and Polybrominated diphenyl ethers (PBDE) are 600 mg/kg, Phthalates such as Bis(2-ethylhexyl) phthalate (DEHP), Butyl benzyl phthalate (BBP), Dibutyl phthalate (DBP), and Diisobutyl phthalate (DIBP) are 800 mg/kg, and Cadmium is 75 mg/kg.

(5) IEC 62321 series is equivalent to EN 62321 series.

Unless otherwise stated, the decision rule for conformity reporting is based on Binary Statement for Simple Acceptance Rule ( $w=0$ ) stated in ILAC-G8:09/2019.



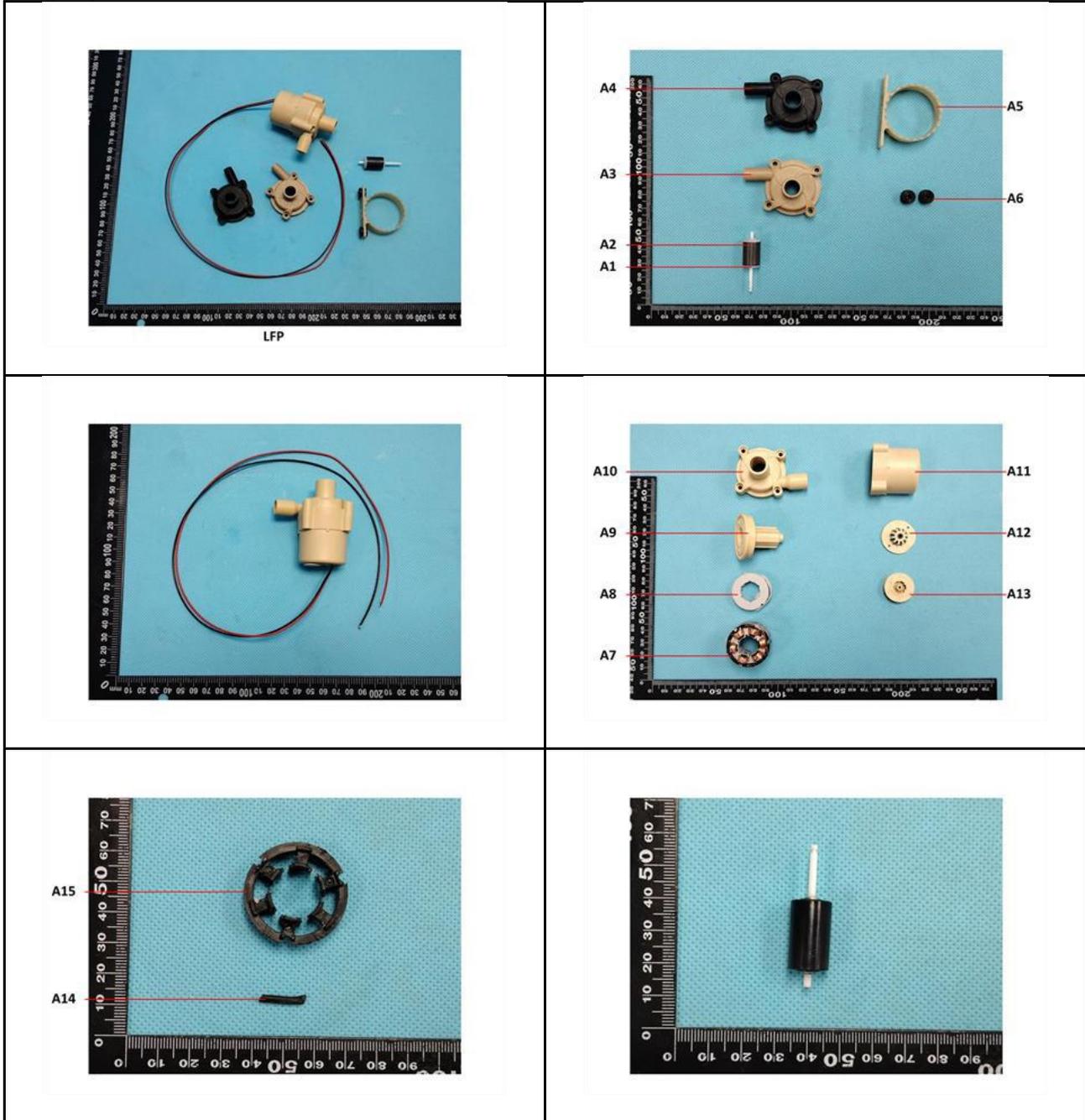
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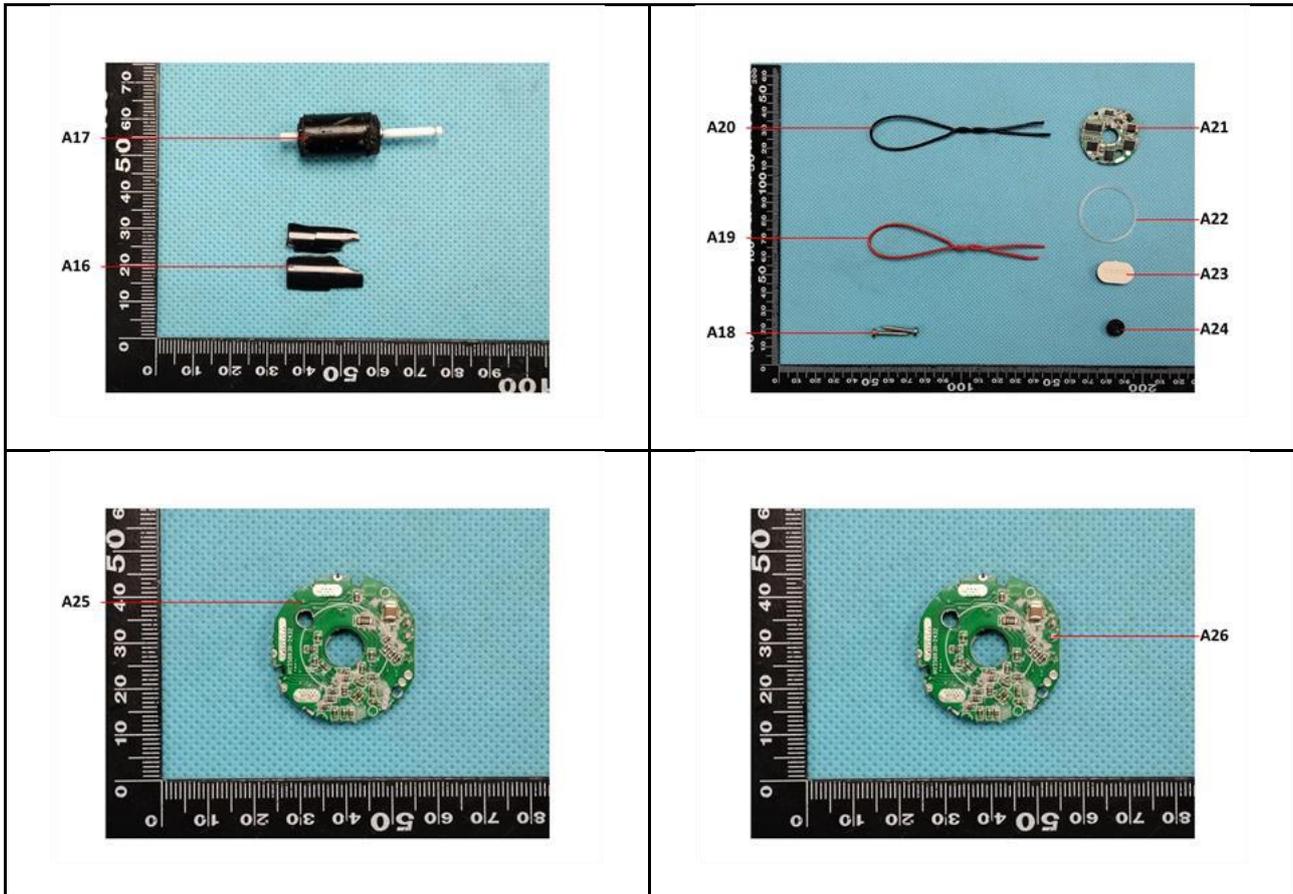
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