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TEST REPORT

<u>Applicant</u> : ningbo deli tools co. ltd.

Address : No. 128, Chezhan West Road, Huangtan Town, Ninghai

County, Ningbo, Zhejiang, China

Sample description : electric hammer

<u>Item no.</u> : DL-DC26-E1 DL-DC28-E2 DL-DC28-E3

Manufacturer : ningbo deli tools Co., Ltd.

Country of origin : China

Sample received date : 17-Mar-2025

Further information date : 09-May-2025

Turn around time : 17-Mar-2025 To 12-May-2025

<u>Test specification</u>: Total concentration of Lead, Cadmium, Mercury, Chromium VI,

Polybrominated Biphenyls (PBBs), Polybrominated Diphenyl Ethers (PBDEs), Bis(2-ethylhexyl) phthalate (DEHP), Butyl benzyl phthalate (BBP), Dibutyl phthalate (DBP) and Diisobutyl phthalate (DIBP) in accordance with EC Directive 2011/65/EU and its amendment

Directive (EU) 2015/863 (RoHS)

<u>Conclusion</u>: Based on the analysis on the selected components of the submitted

product, the test results do comply with the concentration limits as specified in Annex II to Directive 2011/65/EU and its amendment

Directive (EU) 2015/863

The following test item(s) was/were performed on selected sample(s) and/or component(s) appointed by applicant.

Samples are obtained by express delivery, Results obtained refer only to samples, products or material received in Laboratory, as described in point related to sample description, and tested in conditions shown in present report. Eurofins MTS Consumer Product Testing (Shanghai) Co., Ltd ensures that this job has been performed according to our Quality System and complying contract and legal conditions. Unless otherwise stated from the customer, regulation or the standard specification, Eurofins will apply it in accordance with ILAC G8:09/2019-(binary statement for simple acceptance rule). If you happen to have any comments, please do it by sending email to info.sh@cpt.eurofinscn.com and referring to this report number. Reproduction of this document is only valid if it is done completely and under the written permission of Eurofins MTS Consumer Product Testing (Shanghai) Co., Ltd. If you happen to have any complaints, please do it by sending email to info.sh@cpt.eurofinscn.com and referring to this report number.





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Signed for and on behalf of

Chemical Division Assistant Manager SLTH

Eurofins MTS Consumer Product Testing (Shanghai) Co., Ltd.

Linda Jin



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SAMPLE PHOTO(S)



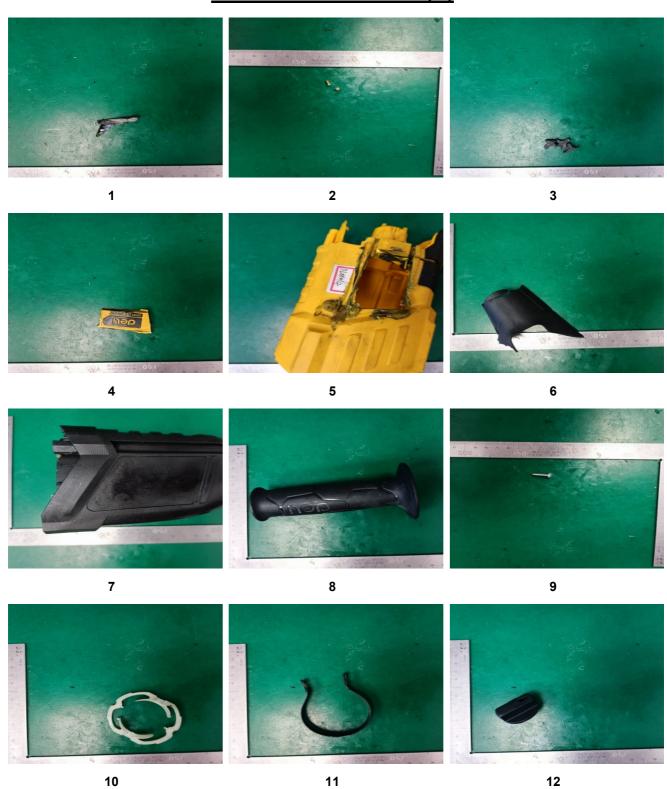


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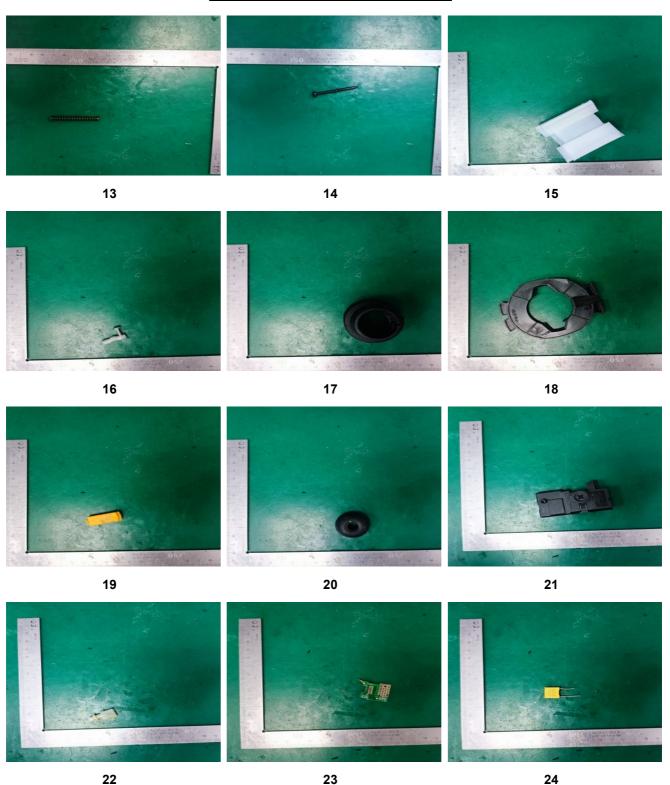
COMPONENT PHOTO(S)





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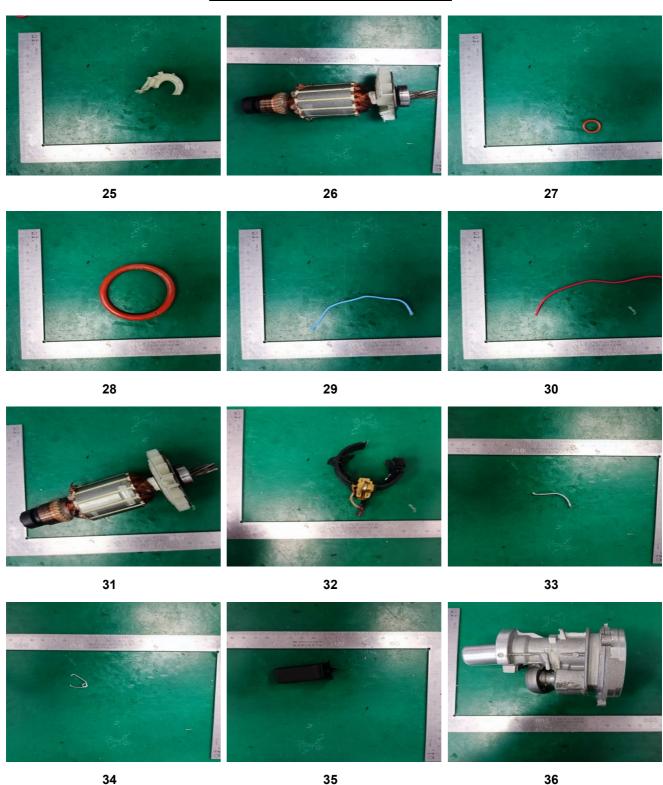
COMPONENT PHOTO(S)





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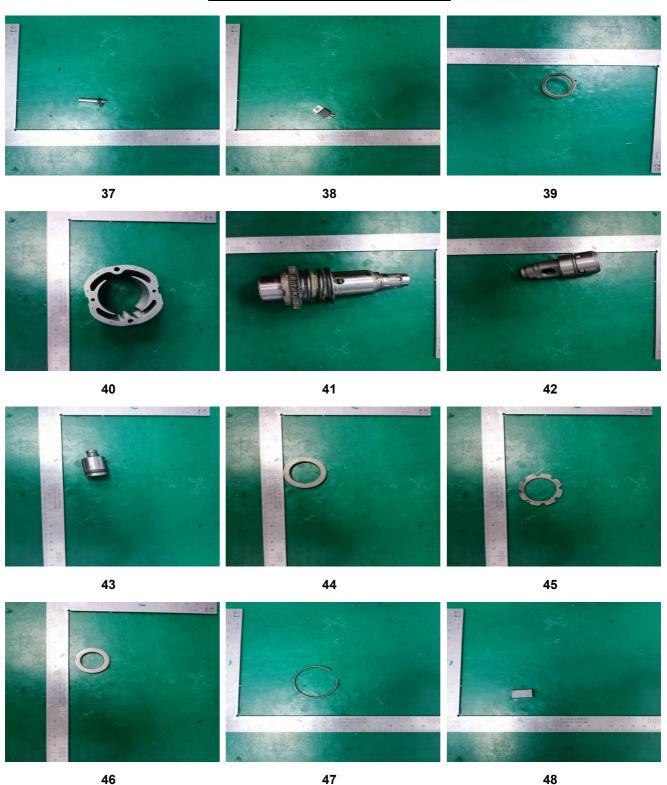
COMPONENT PHOTO(S)





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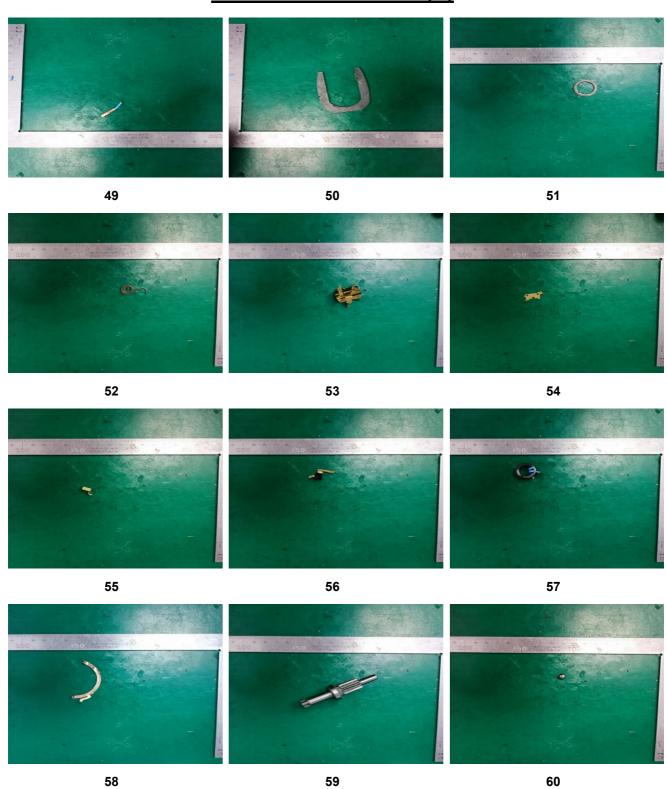
COMPONENT PHOTO(S)





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COMPONENT PHOTO(S)





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TEST RESULT

Part 1

Screening Test by XRF Spectroscopy

As specified by client, to analyze the contents of Lead, Cadmium, Mercury, Chromium, Bromine in the submitted sample by XRF. Screening limits in mg/kg for regulated elements in various matrices according to IEC 62321-3-1:2013

| | | Test Results (mg/kg) | | | | | |
|-----|--------------------------------------|----------------------|---------------------------|------|---------|-----------|--|
| | | Cd | Pb | Hg | Cr | Br | |
| No. | Component | Limit (mg/kg) | | | | | |
| | | 100 | 1000 | 1000 | Cr(VI): | PBB:1000 | |
| | | | | | 1000 | PBDE:1000 | |
| 1 | Colored adhesive paper | BL | BL | BL | BL | BL | |
| 2 | Golden metal screw | BL | BL | BL | BL | NA | |
| 3 | Black plastic inside the plug | BL | BL | BL | BL | NC | |
| 4 | Black coating on yellow plastic | BL | BL | BL | BL | BL | |
| 5 | Yellow plastic body | BL | BL | BL | BL | BL | |
| 6 | Black soft plastic on the body | BL | BL | BL | BL | BL | |
| 7 | Inside the black plastic shell | BL | BL | BL | BL | BL | |
| 8 | Black plastic handle | BL | BL | BL | BL | BL | |
| 9 | Silver metal screw | BL | BL | BL | NC | NA | |
| 10 | White plastic shell | BL | BL | BL | BL | BL | |
| 11 | Black coating on metal | BL | BL | BL | BL | BL | |
| 12 | Black plastic knob | BL | BL | BL | BL | BL | |
| 13 | Black metal screw 2 | BL | BL | BL | NC | NA | |
| 14 | Black metal screw 1 | BL | BL | BL | NC | NA | |
| 15 | Translucent white plastic | BL | BL | BL | BL | BL | |
| 16 | White plastic buckle | BL | BL | BL | BL | BL | |
| 17 | Black plastic cover | BL | BL | BL | BL | BL | |
| 18 | Black plastic lid | BL | BL | BL | BL | NC | |
| 19 | Yellow plastic button | BL | BL | BL | BL | BL | |
| 20 | Black soft plastic sleeve | BL | BL | BL | BL | BL | |
| 21 | Black plastic switch inside | BL | BL | BL | BL | NC | |
| 22 | Beige plastic | BL | BL | BL | BL | BL | |
| 23 | Circuit board | BL | BL | BL | BL | BL | |
| 24 | Yellow plastic electrical components | BL | BL | BL | BL | NC | |
| 25 | Beige plastic 2 | BL | BL | BL | BL | BL | |
| 26 | Silver metal motor | BL | BL | BL | NC | NA | |
| 27 | Orange soft plastic circle 1 | BL | BL | BL | BL | BL | |
| 28 | Orange soft plastic circle 2 | BL | BL | BL | BL | BL | |
| 29 | Blue wire sheath | BL | BL | BL | BL | BL | |
| 30 | Black wire sheath | BL | BL | BL | BL | BL | |
| 31 | Beige plastic on the motor | BL | BL | BL | BL | BL | |
| 32 | Black plastic cover 2 | BL | BL | BL | BL | NC | |
| 33 | Silver metal strip | BL | BL | BL | NC | NA | |
| 34 | Silver metal spring buckle | BL | BL | BL | BL | NA | |
| 35 | Black plastic button | BL | BL | BL | BL | NC | |
| 36 | Silver metal body | BL | BL | BL | BL | NA | |
| 37 | Silver metal plug | BL | 1.02x10 ⁴ (*2) | BL | BL | NA | |
| 38 | Silver metal electrical components | BL | BL | BL | BL | NA | |
| 39 | Silver metal spring | BL | BL | BL | NC | NA | |



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TEST RESULT

| | | Test Results (mg/kg) | | | | | |
|-----|--|----------------------|---------------------------|------|---------|-----------|--|
| | | Cd | Pb | Hg | Cr | Br | |
| No. | Component | Limit (mg/kg) | | | | | |
| | | 100 | 1000 | 1000 | Cr(VI): | PBB:1000 | |
| | | | | | 1000 | PBDE:1000 | |
| 40 | Silver metal motor | BL | BL | BL | NC | NA | |
| 41 | Silver metal drill bit 1 | BL | BL | BL | NC | NA | |
| 42 | Silver metal drill bit 2 | BL | BL | BL | NC | NA | |
| 43 | Silver metal block | BL | BL | BL | NC | NA | |
| 44 | Silver metal block 1 Silver metal ring 1 | BL | BL | BL | NC | NA | |
| 45 | Silver metal ring 2 | BL | BL | BL | BL | NA | |
| 46 | Silver metal ring 3 | BL | BL | BL | NC | NA | |
| 47 | Silver metal buckle | BL | BL | BL | NC | NA | |
| 48 | Carbon rod | BL | BL | BL | BL | BL | |
| 49 | Golden metal plug | BL | BL | BL | BL | NA | |
| 50 | Silver metal buckle 2 | BL | BL | BL | BL | NA | |
| 51 | Silver metal ring 4 | BL | BL | BL | BL | NA | |
| 52 | Silver metal strip | BL | BL | BL | NC | NA | |
| 53 | Golden metal card slot | BL | BL | BL | BL | NA | |
| 54 | Golden metal sheet | BL | BL | BL | BL | NA | |
| 55 | Golden metal shell | BL | 1.83x10 ⁴ (*2) | BL | BL | NA | |
| 56 | Golden metal strip | BL | BL | BL | BL | NA | |
| 57 | Black insulation block | BL | BL | BL | BL | BL | |
| 58 | Rose gold metal strip | BL | BL | BL | BL | NA | |
| 59 | Silver metal bearings | BL | BL | BL | NC | NA | |
| 60 | Silver metal ball | BL | BL | BL | NC | NA | |
| 61 | Copper wire 1 | BL | BL | BL | BL | NA | |
| 62 | Copper wire 2 | BL | BL | BL | BL | NA | |



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TEST RESULT

Abbreviation: Pb denotes Lead

Cd denotes Cadmium

Hg denotes Mercury

Cr denotes Chromium

Cr(VI) denotes Chromium(VI)

Br denotes Bromine

PBBs denotes Total Polybrominated Biphenyls
PBDEs denotes Total Polybrominated Diphenyl Ethers

NA denotes Not Applicable
NC denotes Not Conclusive
BL denotes Below limit

XRF Screening limits for different materials:

| Element | Polymers | Metals | Composite Material |
|---------|---|---|---|
| Cd | BL \leq (70-3 σ) $<$ X $<$ (130+3 σ) \leq | BL ≤ (70-3 σ) < X < | LOD <x< (150+3σ)="" td="" ≤ol<=""></x<> |
| Cu | OL | (130+3σ) ≤OL | EOD < X < (130+30) 30E |
| Pb | BL ≤ $(700-3\sigma)$ < X < | BL ≤ $(700-3\sigma)$ < X < | BL ≤ (500-3 σ) < X < |
| PD | (1300+3σ) ≤OL | (1300+3σ) ≤ OL | (1500+3σ) ≤ OL |
| Цα | BL ≤ $(700-3\sigma)$ < X < | BL ≤ $(700-3\sigma)$ < X < | BL ≤ (500-3σ) <x <<="" td=""></x> |
| Hg | (1300+3σ) ≤ OL | (1300+3σ) ≤ OL | (1500+3σ) ≤OL |
| Br | BL ≤(300-3σ) < X | 1 | BL ≤ (250-3σ) < X |
| Cr | BL ≤ (700-3σ) <x< td=""><td>BL ≤ (700-3σ) <x< td=""><td>BL≤(500-3σ) <x< td=""></x<></td></x<></td></x<> | BL ≤ (700-3σ) <x< td=""><td>BL≤(500-3σ) <x< td=""></x<></td></x<> | BL≤(500-3σ) <x< td=""></x<> |

Note:

BL= Below limit

X = The region where further investigation is necessary

OL = Over limit

 3σ = The repeatability of the analyzer at the action level

LOD = Limit of detection

(*2) As a copper alloy containing up to 4% lead by weight (RoHS Exemption 6(c)).

As per client's request, only the appointed materials have been tested.



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TEST RESULT

B. Confirmation Test by Wet Chemistry

| Tested Item(s) | Test Method | Measured Equipment | MDL |
|---------------------------------------|----------------------------|-----------------------|------------------------|
| Lead (Pb) /Cadmium (Cd) | IEC 62321-5:2013 | ICP-OES | 10 mg/kg |
| Mercury (Hg) | IEC 62321-4:2013/AMD1:2017 | ICP-OES | 10 mg/kg |
| Hexavalent Chromium (Cr(VI)) | IEC 62321-7-1:2015 | UV-Vis | 0.01µg/cm ² |
| Hexavalent Chronium (Cr(VI)) | IEC 62321-7-2:2017 | UV-VIS | 10 mg/kg |
| Polybrominated Biphenyls | | | |
| (PBBs) | IEC 62321-6:2015 | GC-MS | 50 mg/kg |
| Polybrominated DiphenylEthers (PBDEs) | IEC 02321-0.2015 | GC-IVIS | |

| Component No. | Boiling-water-extraction for Cr(VI) (*1) | | | |
|---------------|--|--|--|--|
| 40 | Negative | | | |
| 41 | Negative | | | |
| 42 | Negative | | | |
| 43 | Negative | | | |
| 44 | Negative | | | |
| 46 | Negative | | | |
| 47 | Negative | | | |
| 52 | Negative | | | |
| 59 | Negative | | | |
| 60 | Negative | | | |
| 63 | Negative | | | |
| 65 | Negative | | | |
| 66 | Negative | | | |
| 67 | Negative | | | |
| 68 | Negative | | | |
| 69 | Negative | | | |

Remark:

(*1) The screening result of Chromium (VI) was found in the inconclusive region, Thus the Chromium(VI) content in surface layer have been confirmed with reference to IEC 62321-7-1:2015.

Negative - The Cr(VI) concentration is below 0.10µg/cm². The coating is considered a non-Cr(VI) based coating.



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TEST RESULT

| | Test Results (mg/kg) | | | | | |
|-----------------------------|----------------------|------|------|---------|------|-------|
| | Cd | Pb | Hg | Cr (VI) | PBBs | PBDEs |
| Component No. Limit (mg/kg) | | | | | | |
| | 100 | 1000 | 1000 | 1000 | 1000 | 1000 |
| 3 | = | - | - | - | ND | ND |
| 18 | = | - | - | - | ND | ND |
| 21 | - | - | - | - | ND | ND |
| 24 | - | - | - | - | ND | ND |
| 32 | - | - | - | - | ND | ND |
| 35 | - | - | - | - | ND | ND |

Note:

The sample had been dissolved totally tested for Lead, Cadmium, Mercury.

MDL = method detection limit

ND = not detected (<MDL)

mg/kg = ppm = parts per million

μg/cm² = micrograms per square centimeter

As per client's request, only the appointed materials have been tested.



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TEST RESULT

Part 2

Diisobutyl phthalate (DIBP), Bis (2- ethylhexyl) phthalate (DEHP), Butyl benzyl phthalate (BBP) and Dibutyl phthalate (DBP)

Test specification : Total concentration of Bis(2-ethylhexyl) phthalate (DEHP) , Butyl benzyl phthalate (BBP) , Dibutyl

phthalate (DBP) and Diisobutyl phthalate (DIBP) in accordance with EC Directive 2011/65/EU and its amendment Directive (EU) 2015/863 (RoHS)

Test method : IEC 62321-8:2017

Limit : Annex II to Directive 2011/65/EU and its amendment Directive (EU) 2015/863

| | Test Results (%) | | | | | | |
|-----------|------------------|------|------|------|--|--|--|
| Component | DIBP | DEHP | BBP | DBP | | | |
| Component | Limit (%) | | | | | | |
| | 0.1% | 0.1% | 0.1% | 0.1% | | | |
| 4+5+6 | ND | ND | ND | ND | | | |
| 10+11+12 | ND | ND | ND | ND | | | |
| 16+17+18 | ND | ND | ND | ND | | | |
| 19+20+21 | ND | ND | ND | ND | | | |
| 22+23+24 | ND | ND | ND | ND | | | |

Note:

ND = Not Detected (<0.005%) 0.1% equals to 1000 mg/kg

According to client's request, tests are combination tests. The experimental results are the total result of mixed samples.

As per client's request, only the appointed materials have been tested.