

TEST REPORT

<u>Applicant</u>	: ningbo deli tools co. ltd.
<u>Address</u>	: No.128 Chezhan West Road, Huangtan Town, NinghaiCounty, Ningbo, Zhejiang, China.
<u>Sample description</u>	: spray gun
<u>Item no.</u>	: DC090 DC090-X DC091 DC091-X DC091-1
<u>Manufacturer</u>	: ningbo deli tools Co., Ltd.
<u>Country of origin</u>	: China
<u>Sample received date</u>	: 25-Mar-2025
<u>Turn around time</u>	: 25-Mar-2025 To 11-Apr-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 submitted sample(s), 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 submitted sample(s) and/or component(s) appointed by applicant.

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

Signed for and on behalf of
Eurofins MTS Consumer Product Testing (Shanghai) Co., Ltd.

Linda Jin

Linda Jin
Chemical Division Assistant Manager, SI TH



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.



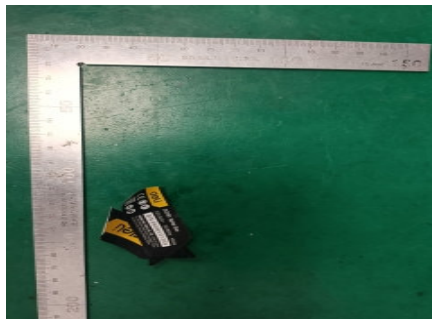
SAMPLE PHOTO(S)



EFW525036174-CG-20

TO BE CONTINUED

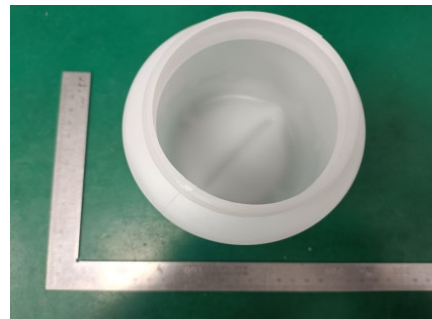
COMPONENT PHOTO(S)



1



2



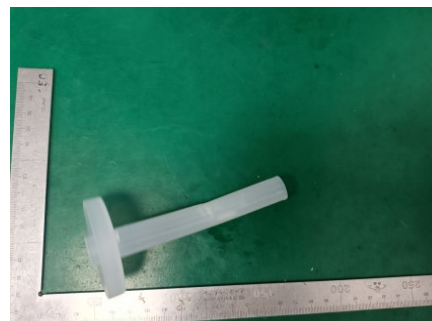
3



4



5



6



7



8



9



10

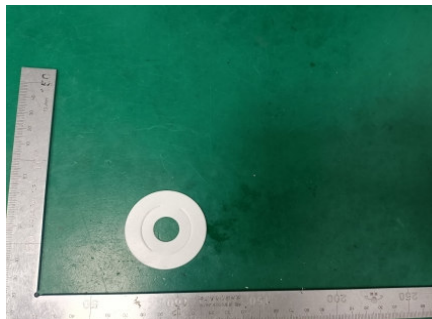
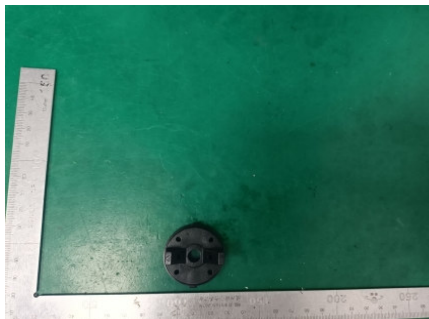


11



12

TO BE CONTINUED

COMPONENT PHOTO(S)**13****14****15****16****17****18****19****20****21****22****23****24**

TO BE CONTINUED

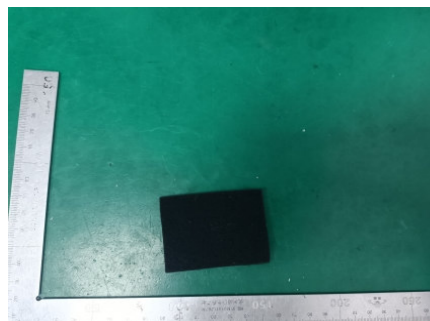
COMPONENT PHOTO(S)



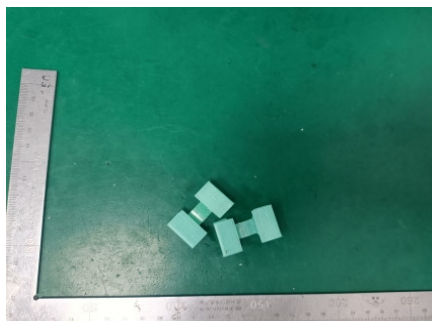
25



26



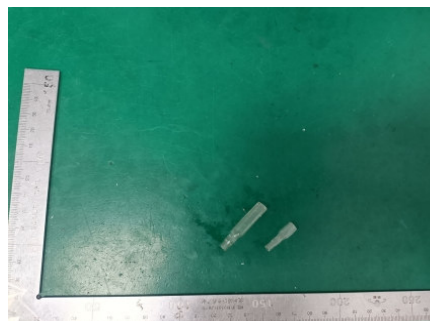
27



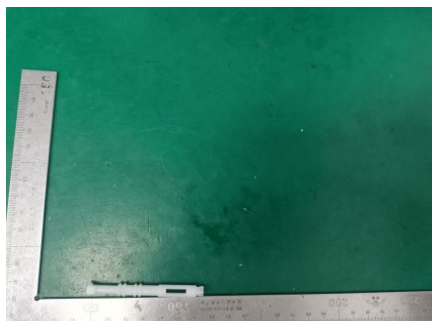
28



29



30



31



32



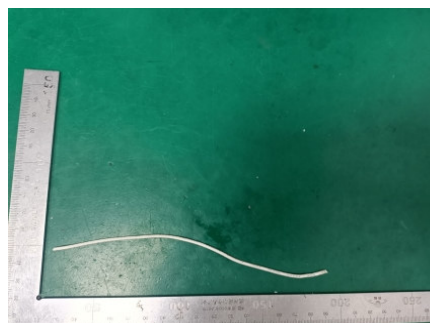
33



34



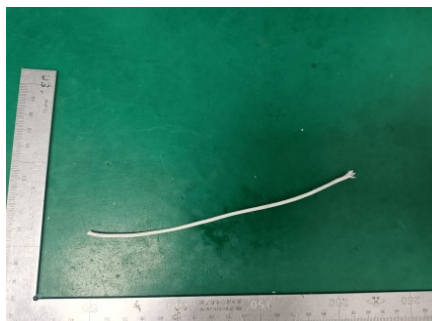
35



36

TO BE CONTINUED

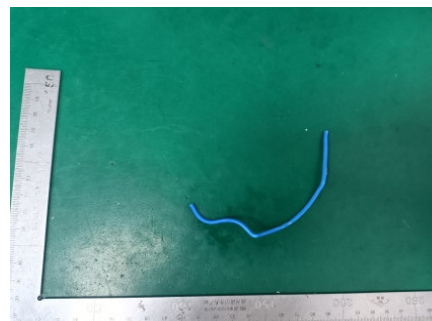
COMPONENT PHOTO(S)



37



38



39



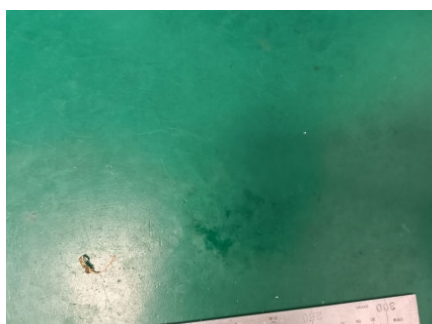
40



41



42



43



44



45



46

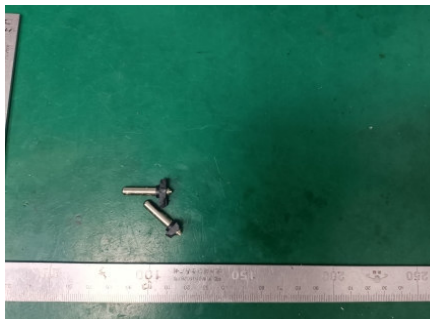
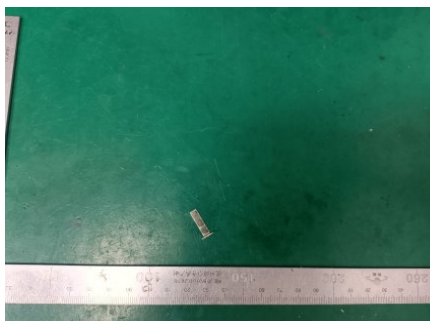
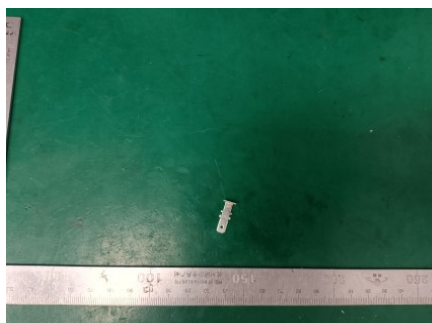


47

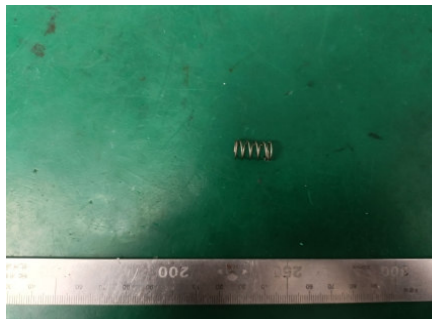


48

TO BE CONTINUED

COMPONENT PHOTO(S)**49****50****51****52****53****54****55****56****57****58****59****60*******TO BE CONTINUED*****

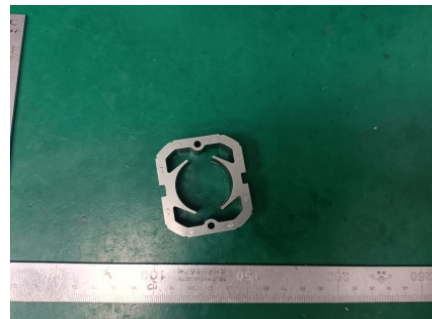
COMPONENT PHOTO(S)



61



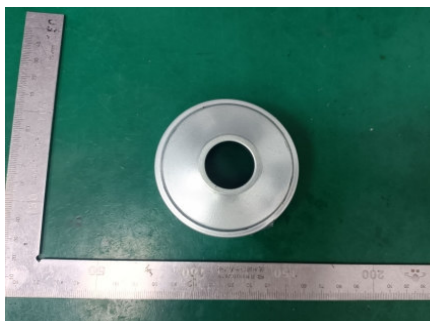
62



63



64



65



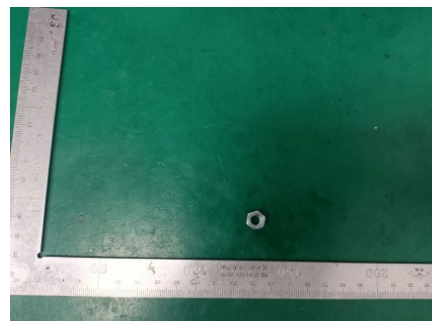
66



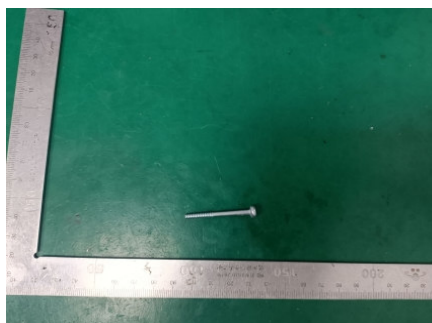
67



68



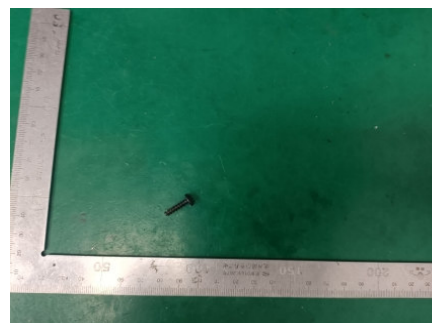
69



70



71



72

TO BE CONTINUED

TEST RESULT

Part 1

A. 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

No.	Component	Test Results (mg/kg)				
		Cd	Pb	Hg	Cr	Br
		Limit (mg/kg)				
		100	1000	1000	Cr(VI): 1000	PBB:1000 PBDE:1000
1	Colored adhesive paper	BL	BL	BL	BL	BL
2	Yellow plastic body	BL	BL	BL	BL	BL
3	White plastic bottle	BL	BL	BL	BL	BL
4	White soft plastic	BL	BL	BL	BL	BL
5	Translucent white funnel	BL	BL	BL	BL	BL
6	Translucent white water pipe	BL	BL	BL	BL	BL
7	Black plastic 1	BL	BL	BL	BL	BL
8	Yellow plastic 1	BL	BL	BL	BL	BL
9	Yellow plastic 2	BL	BL	BL	BL	BL
10	Black plastic inside the plug	BL	BL	BL	BL	NC
11	Black soft plastic plug	BL	BL	BL	BL	BL
12	WHITE PLASTIC	BL	BL	BL	BL	NC
13	Beige Soft Plastic	BL	BL	BL	BL	BL
14	Black plastic 1	BL	BL	BL	BL	BL
15	Black plastic 2	BL	BL	BL	BL	BL
16	Black plastic 3	BL	BL	BL	BL	BL
17	Black plastic 4	BL	BL	BL	BL	BL
18	Black plastic 5	BL	BL	BL	BL	BL
19	Black soft plastic handle	BL	BL	BL	BL	BL
20	Black soft plastic sleeve	BL	BL	BL	BL	BL
21	White plastic fan	BL	BL	BL	BL	NC
22	White cable tie	BL	BL	BL	BL	BL
23	Black plastic trigger	BL	BL	BL	BL	NC
24	Black plastic knob	BL	BL	BL	BL	BL
25	Black plastic 6	BL	BL	BL	BL	NC
26	Black plastic 7	BL	BL	BL	BL	BL
27	Black sponge	BL	BL	BL	BL	BL
28	Translucent blue plastic	BL	BL	BL	BL	BL
29	White plastic 2	BL	BL	BL	BL	BL
30	Transparent soft plastic sleeve	BL	BL	BL	BL	BL
31	White plastic 3	BL	BL	BL	BL	BL
32	Red plastic button	BL	BL	BL	BL	BL
33	Yellow plastic electrical components	BL	BL	BL	BL	NC
34	Black Soft Plastic Ring 1	BL	BL	BL	BL	BL
35	Black soft plastic ring	BL	BL	BL	BL	BL
36	White wire sheath	BL	BL	BL	BL	BL
37	White Nylon	BL	BL	BL	BL	BL
38	Black wrapped leather	BL	BL	BL	BL	BL
39	Blue wire sheath	BL	BL	BL	BL	BL

TO BE CONTINUED

TEST RESULT

No.	Component	Test Results (mg/kg)				
		Cd	Pb	Hg	Cr	Br
		Limit (mg/kg)				
		100	1000	1000	Cr(VI): 1000	PBB:1000 PBDE:1000
40	Coffee colored wire sheath	BL	BL	BL	BL	BL
41	Black wire sheath	BL	BL	BL	BL	BL
42	White soft plastic pipe	BL	BL	BL	BL	BL
43	Silver metal solder	BL	BL	BL	BL	NA
44	Carbon rod	BL	BL	BL	BL	BL
45	Golden Metal 1	BL	2.42x10 ⁴ (*2)	BL	BL	NA
46	Golden metal sleeve	BL	BL	BL	BL	NA
47	Silver metal shaft	BL	BL	BL	BL	NA
48	Silver metal gasket	BL	BL	BL	BL	NA
49	Silver metal sheet	BL	BL	BL	BL	NA
50	Silver metal plug	BL	6.57x10 ³ (*2)	BL	BL	NA
51	Silver metal sheet 2	BL	BL	BL	BL	NA
52	Silver metal rod	BL	BL	BL	NC	NA
53	Silver metal sheet 3	BL	BL	BL	BL	NA
54	Silver metal connector	BL	BL	BL	BL	NA
55	Silver metal sheet 4	BL	BL	BL	BL	NA
56	Black metal ring	BL	BL	BL	NC	NA
57	Silver metal ring	BL	BL	BL	NC	NA
58	Silver metal 5	BL	BL	BL	BL	NA
59	Silver metal spring 1	BL	BL	BL	NC	NA
60	Silver metal spring 2	BL	BL	BL	NC	NA
61	Silver metal spring 3	BL	BL	BL	NC	NA
62	Silver metal spring 4	BL	BL	BL	NC	NA
63	Silver metal motor	BL	BL	BL	NC	NA
64	Silver metal fan	BL	BL	BL	NC	NA
65	Silver metal lid	BL	BL	BL	BL	NA
66	Silver metal motor	BL	BL	BL	NC	NA
67	Silver metal wire	BL	BL	BL	BL	NA
68	Copper wire	BL	BL	BL	BL	NA
69	Silver metal nut	BL	BL	BL	BL	NA
70	Silver metal screw 1	BL	BL	BL	BL	NA
71	Silver metal screw 2	BL	BL	BL	NC	NA
72	Black metal screw	BL	BL	BL	NC	NA

TO BE CONTINUED

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	$BL \leq (70-3\sigma) < X < (130+3\sigma) \leq OL$	$BL \leq (70-3\sigma) < X < (130+3\sigma) \leq OL$	$LOD < X < (150+3\sigma) \leq OL$
Pb	$BL \leq (700-3\sigma) < X < (1300+3\sigma) \leq OL$	$BL \leq (700-3\sigma) < X < (1300+3\sigma) \leq OL$	$BL \leq (500-3\sigma) < X < (1500+3\sigma) \leq OL$
Hg	$BL \leq (700-3\sigma) < X < (1300+3\sigma) \leq OL$	$BL \leq (700-3\sigma) < X < (1300+3\sigma) \leq OL$	$BL \leq (500-3\sigma) < X < (1500+3\sigma) \leq OL$
Br	$BL \leq (300-3\sigma) < X$	/	$BL \leq (250-3\sigma) < X$
Cr	$BL \leq (700-3\sigma) < X$	$BL \leq (700-3\sigma) < X$	$BL \leq (500-3\sigma) < X$

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)).

TO BE CONTINUED

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
	IEC 62321-7-2:2017		10 mg/kg
Polybrominated Biphenyls (PBBs)	IEC 62321-6:2015	GC-MS	50 mg/kg
Polybrominated DiphenylEthers (PBDEs)			

Component No.	Boiling-water-extraction for Cr(VI) (*1)
52	Negative
56	Negative
57	Negative
59	Negative
60	Negative
61	Negative
62	Negative
63	Negative
64	Negative
66	Negative
71	Negative
72	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.

TO BE CONTINUED

TEST RESULT

Component No.	Test Results (mg/kg)					
	Cd	Pb	Hg	Cr (VI)	PBBs	PBDEs
	Limit (mg/kg)					
	100	1000	1000	1000	1000	1000
10	-	-	-	-	ND	ND
12	-	-	-	-	ND	ND
21	-	-	-	-	ND	ND
23	-	-	-	-	ND	ND
25	-	-	-	-	ND	ND
33	-	-	-	-	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

TO BE CONTINUED

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

Component	Test Results (%)			
	DIBP	DEHP	BBP	DBP
	Limit (%)			
	0.1%	0.1%	0.1%	0.1%
1+2+3	ND	0.010	ND	ND
4+5+6	ND	ND	ND	ND
7+8+9	ND	ND	ND	ND
10+11+12	ND	ND	ND	ND
13+14+15	ND	ND	ND	ND
16+17+18	ND	ND	ND	ND
19+20+21	ND	0.011	ND	ND
22+23+24	ND	ND	ND	ND
25+26+27	ND	ND	ND	ND
28+29+30	ND	0.006	ND	ND
31+32+33	ND	ND	ND	ND
34+35+36	ND	ND	ND	ND
37+38+39	ND	0.028	ND	ND
40+41+42	ND	0.009	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.

END OF THE REPORT