



TEST REPORT

Test Report # 19A-000942-3-S1 Date of Report Issue: March 28, 2019
 Date of Sample Received: March 11, 2019 Pages: Page 1 of 11

CLIENT INFORMATION:

Company: Mid Ocean Brands B.V.
 Address: 7/F, Kings Tower, 111 King Lam Street, Cheung Sha Wan, Kowloon, Hong Kong



SAMPLE INFORMATION:

Product Name: Luggage scale
 Model/style No.: MO8048
 Main Material: ABS
 Buyer: Mid Ocean Brands B.V.
 Supplier: 100396
 Country of Distribution: Europe
 Testing Period: 03/11/2019-03/19/2019, 03/25/2018-03/28/2018

OVERALL RESULT:

PASS

Refer to page 2 for test result summary and appropriate notes.

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*The test result(s) and conclusion(s) in this report relate to the sample(s) tested as described herein.
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TEST REPORT

Test Report # 19A-000942-3-S1 Date of Report Issue: March 28, 2019
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TEST RESULTS SUMMARY:

At the request of the client, the following tests were conducted:

CONCLUSION	TEST(S) CONDUCTED
PASS	Directive 2011/65/EU and it's amend regulation 2015/863/EU, Restriction of the Use of Certain Hazardous Substances (RoHS)
PASS	*2013/56/EU-Batteries and accumulators

Remark:

- 1) *Revised information and supersedes the previous report no. 19A-000942-3 date: 03/19/2019
- 2) Test results are transferred from test report no. 19A-000942-1-S1 date: 03/28/2019



**DETAILED RESULTS:****Directive 2011/65/EU and it's amend regulation 2015/863/EU, Restriction of the Use of Certain Hazardous Substances (RoHS)**

Test method:

- (1) With reference to IEC 62321-3-1:2013, determination of Cadmium, Lead, Mercury, Chromium and Br by XRF;
- (2) With reference of IEC 62321-4:2013/AMD1:2017, IEC 62321-5:2013 to determine Cadmium, Lead and Mercury by ICP-OES;
- (3) With reference of IEC62321-7-1:2015, IEC62321-7-2:2017 to determine Hexavalent Chromium by UV-vis
- (4) With reference of IEC 62321-6:2015 to determine PBBs and PBDEs by GC-MS.

No.	Parts Name	Test Item (mg/kg)						Conclusion
		Pb	Cd	Hg	CrVI	PBBs	PBDEs	
1	Black plastic upper cover	BL	BL	BL	BL	BL	BL	PASS
2	Black plastic lower cover	BL	BL	BL	BL	BL	BL	PASS
3	Black metal screw	ND	ND	ND	Ne	-	-	PASS
4	Silvery metal screw	ND	ND	ND	Ne	-	-	PASS
5	Black plastic end cover	BL	BL	BL	BL	BL	BL	PASS
6	Black lobster clip	BL	BL	BL	BL	BL	BL	PASS
7	Black lobster clip-black plastic shell	BL	BL	BL	BL	BL	BL	PASS
8	Black stay cord	BL	BL	BL	BL	BL	BL	PASS
9	Black plastic button	BL	BL	BL	BL	BL	BL	PASS
10	Transparent plastic upper cover	BL	BL	BL	BL	BL	BL	PASS
11	Silvery metal button	ND	ND	ND	Ne	-	-	PASS
12	LCD	BL	BL	BL	BL	BL	BL	PASS
13	Black rubber blanket	BL	BL	BL	BL	BL	BL	PASS
14	Black sponge mat	BL	BL	BL	BL	BL	BL	PASS
15	Silvery metal chunk	ND	ND	ND	Ne	-	-	PASS
16	Silvery metal chunk-silvery metal screw	ND	ND	ND	Ne	-	-	PASS
17	Yellow paster	BL	BL	BL	BL	BL	BL	PASS
18	Yellow paster-soldering tin	329	ND	ND	BL	-	-	PASS
19	White hot melt adhesive	BL	BL	BL	BL	BL	BL	BL
20	Green PCB board	BL	BL	BL	BL	BL	BL	BL
21	Green PCB board-soldering tin	256	ND	ND	BL	-	-	PASS
22	Green PCB board-SMD resistor	BL	BL	BL	BL	BL	BL	BL
23	Green PCB board-black IC module	BL	BL	BL	BL	BL	BL	BL
24	Green PCB board-bimetallic strip	ND	ND	ND	Ne	-	-	PASS
25	Green PCB board- silvery metal screw	ND	ND	ND	Ne	-	-	PASS
26	Silvery electrode slice	ND	ND	ND	Ne	-	-	PASS
27	Silvery electrode slice-soldering tin	487	ND	ND	BL	-	-	PASS
28	Red wire sheath	BL	BL	BL	BL	BL	BL	PASS



**DETAILED RESULTS:**

No.	Parts Name	Test Item (mg/kg)						Conclusion
		Pb	Cd	Hg	CrVI	PBBs	PBDEs	
29	White wire sheath	BL	BL	BL	BL	BL	BL	PASS
30	Black wire sheath	BL	BL	BL	BL	BL	BL	PASS
31	Blue wire sheath	BL	BL	BL	BL	BL	BL	PASS
32	Copper wire	ND	ND	ND	Ne	-	-	PASS

Parameter	Unit	Requirement	Method Detection Limit (MDL)
Lead (Pb)	mg/kg	1000	15
Cadmium (Cd)	mg/kg	100	15
Mercury (Hg)	mg/kg	1000	15
Chromium VI (Cr VI)	mg/kg	1000	15
Group PBBs	mg/kg	1000	20
Group PBDEs	mg/kg	1000	20

As specified by client, with XRF analysis toxic harmful substance content, All kinds of matrixes screening of the element is limited see chart (Unit: mg/kg)

Elements	Polymer material	Metal material/ Inorganic nonmetallic material	Electronic component
Lead (Pb)	$BL \leq (700-3\sigma) < X < (1300+3\sigma) \leq OL$	$BL \leq (700-3\sigma) < X < (1300+3\sigma) \leq OL$	$BL \leq (500-3\sigma) < X < (1500+3\sigma) \leq OL$
Cadmium (Cd)	$BL \leq (70-3\sigma) < X < (130+3\sigma) \leq OL$	$BL \leq (70-3\sigma) < X < (130+3\sigma) \leq OL$	$LOD < X < (150+3\sigma) \leq OL$
Mercury (Hg)	$BL \leq (700-3\sigma) < X < (1300+3\sigma) \leq OL$	$BL \leq (700-3\sigma) < X < (1300+3\sigma) \leq OL$	$BL \leq (500-3\sigma) < X < (1500+3\sigma) \leq OL$
Chromium (Cr)	$BL \leq (700-3\sigma) < X$	$BL \leq (700-3\sigma) < X$	$BL \leq (500-3\sigma) < X$
Bromine (Br)	$BL \leq (300-3\sigma) < X$	-	$BL \leq (250-3\sigma) < X$

Note:

- Unit: mg/kg, 1mg/kg=1ppm=0.0001%
- MDL=Method Detection Limit
- ND=Not Detected(< MDL)
- "-"= Not Regulated or Not Applicable
- 3σ = Analysis shows that the instrument reproducibility
- BL=Below Limit; OL=Over Limit
- Ne=Negative, Absence of Cr(VI), the concentration of Cr (VI) in sample solution is less than $0.10\mu\text{g}/\text{cm}^2$.
Po = Positive, Presence of Cr(VI), the concentration of Cr (VI) in sample solution is more than $0.13\mu\text{g}/\text{cm}^2$.
- "Results of XRF" is the result on total Br and total Cr while restricted substances are PBBs/PBDEs and Cr(VI).



**DETAILED RESULTS:****Directive 2011/65/EU and it's amend regulation 2015/863/EU, Restriction of the Use of Certain Hazardous Substances (RoHS) (DBP, BBP, DEHP, DIBP)**

Test Method: IEC 62321-8:2017
 Analytical Method: Gas Chromatography/Mass Spectrometry

Specimen No.	1	2	7	9	10	Limit (mg/kg)
Test Item	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	
DBP	ND	ND	ND	ND	ND	1000
BBP	ND	ND	ND	ND	ND	1000
DEHP	ND	ND	ND	ND	ND	1000
DIBP	ND	ND	ND	ND	ND	1000
Conclusion	PASS	PASS	PASS	PASS	PASS	

Specimen No.	13	14	19	28	29	Limit (mg/kg)
Test Item	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	
DBP	ND	ND	ND	ND	ND	1000
BBP	ND	ND	ND	ND	ND	1000
DEHP	ND	ND	ND	ND	ND	1000
DIBP	ND	ND	ND	ND	ND	1000
Conclusion	PASS	PASS	PASS	PASS	PASS	

Note:

DBP = Dibutyl phthalate; BBP = Benzyl butyl phthalate; DEHP = Di-(2-ethylhexyl) phthalate
 DIBP = Di-iso-Butylphthalate Phthalate;
 mg/kg = Milligrams per kilogram
 ND = Not detected (Reporting Limit =150mg/kg)





DETAILED RESULTS:

Directive 2011/65/EU and it's amend regulation 2015/863/EU, Restriction of the Use of Certain Hazardous Substances (RoHS) (DBP, BBP, DEHP, DIBP)

Test Method: IEC 62321-8:2017
Analytical Method: Gas Chromatography/Mass Spectrometry

Specimen No.	30	31	---	---	---	Limit (mg/kg)
Test Item	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	
DBP	ND	ND	---	---	---	1000
BBP	ND	ND	---	---	---	1000
DEHP	ND	ND	---	---	---	1000
DIBP	ND	ND	---	---	---	1000
Conclusion	PASS	PASS	---	---	---	

Note:

DBP = Dibutyl phthalate; BBP = Benzyl butyl phthalate; DEHP = Di-(2-ethylhexyl) phthalate
DIBP = Di-iso-Butylphthalate Phthalate;
mg/kg = Milligrams per kilogram
ND = Not detected (Reporting Limit =150mg/kg)





DETAILED RESULTS:

***2013/56/EU-Batteries and accumulators**

Components and Parts Name	Item	MDL (mg/kg)	Result (mg/kg)	Limit (mg/kg)
33:Battery	Cadmium (Cd)	5	ND	20
	Lead (Pb)	5	ND	40
	Mercury (Hg)	5	ND	5
Conclusion	-	-	PASS	-

Note:

mg/kg = Milligrams per kilogram

MDL=Method Detection Limit

ND = Not detected (< MDL)





SAMPLE PHOTO:



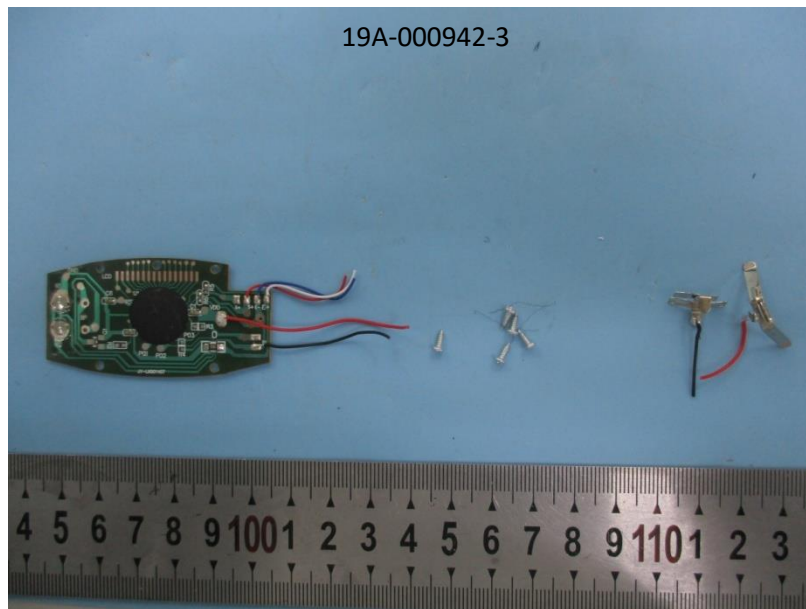
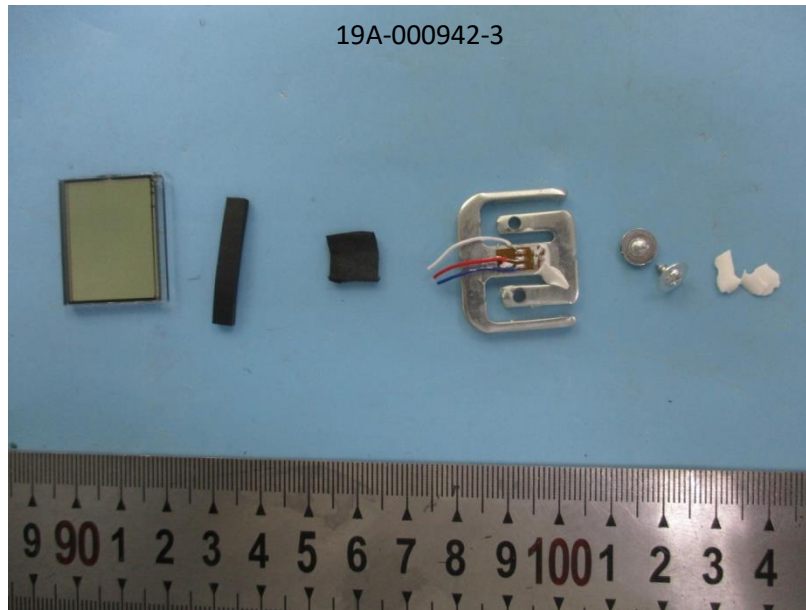


SAMPLE PHOTO:



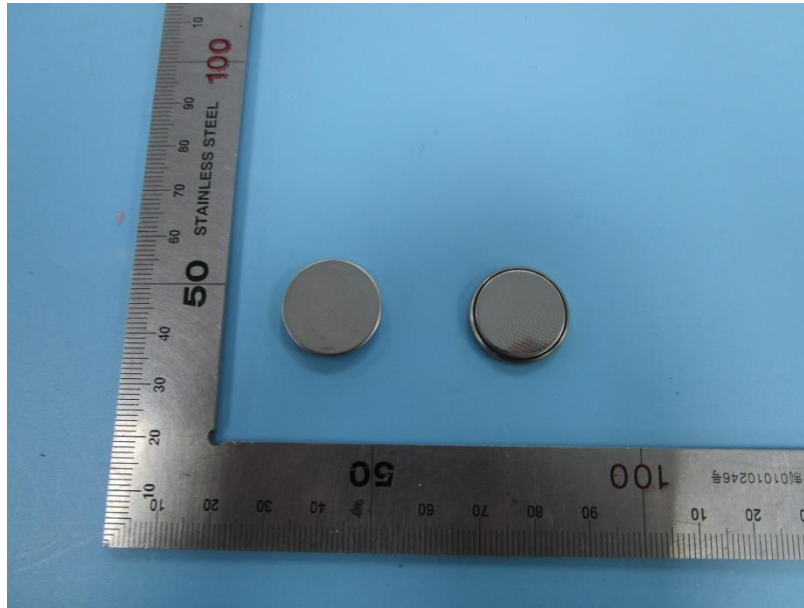


SAMPLE PHOTO:





SAMPLE PHOTO:



-End Report-

