TEST REPORT

Applicant	:	Mid Ocean Brands B.V.
Address	:	Unit 711-716, 7/F., Tower A, 83 King Lam Street, Cheung Sha Wan, Kowloon, Hong Kong
Sample description	:	BBQ TOOL SET
Item no.	:	KC6388
Manufacturer	:	107961
Sample received date	:	03 - Dec - 2025
Further information date	:	05 - Jan - 2026
Turn around time	:	11 - Dec - 2025 to 06 - Jan - 2026
Revised date	:	16 - Jan - 2026

The following test item(s) was/were performed on submitted sample(s) and/or component(s) confirmed by applicant

TEST REQUESTED	TEST METHOD/REGULATION	RESULT
Total Cadmium Content	REACH Annex XVII, Entry 23	Pass
Pentachlorophenol (PCP) Content	Regulation (EU) 2019/1021	Pass
Pentachlorophenol (PCP) Content for Leather	Regulation (EU) 2019/1021	Pass
Total Lead Content	REACH Annex XVII, Entry 63	Pass
Phthalates content	REACH Annex XVII, Entry 51 & 52	Pass
Polycyclic Aromatic Hydrocarbons (PAHs)	REACH Annex XVII, Entry 50	Pass
Banned AZO Dyes	REACH Annex XVII, Entry 43	Pass
Colour Fastness to Rubbing	ISO 105-X12:2016	Pass
Formaldehyde Release	EN 717-1:2004	Pass
Specific Release of Heavy Metals	European Directorate for the Quality of Medicines & Healthcare (EDQM)-Technical Guide on Metals and alloys used in food contact materials and articles (2nd Edition, 2024)	Pass

Remark:
This report cancels and supersedes report number EFHZ25121091-CG-01 issued on Jan.06, 2025.
Modification description:

1. Per client's request, modified item no.in the revised report.
2. Per client's request, add manufacturer in the revised report.
3. Per client's request, modified the description of component no.3 and resubmit this component on Jan.13,2026 for Total Cadmium Content, Pentachlorophenol (PCP) Content, Phthalates content, Polycyclic Aromatic Hydrocarbons (PAHs) and Banned AZO Dyes tests and the test report is revised accordingly.

Eurofins（Hangzhou）contact information
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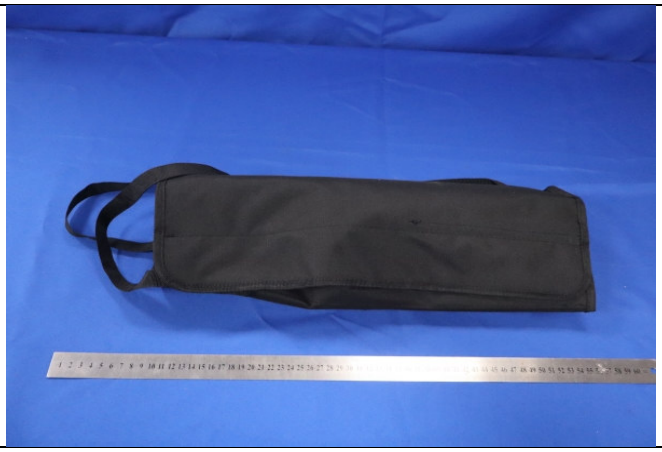
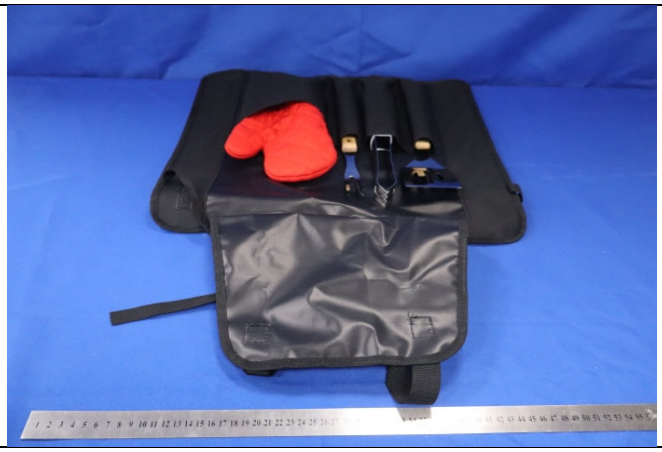
********** FOR FURTHER DETAILS, PLEASE REFER TO THE FOLLOWING PAGE(S) **********

Signed for and on behalf of
Eurofins Product Testing Service (Hangzhou) Co., Ltd

Sara Liu
Quality Manager

SAMPLE PHOTO(S)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EFHZ25121091-CG-01+Rev1

TO BE CONTINUED

COMPONENT LIST

Component No.	Component	Sample No.
1	Black fabric with black coating（body）	A
2	Black plastic buckle	A
3	Brown PU	A
4	Black fabric tape（narrow）	A
5	Black fabric piping	A
6	Black fabric tape（wide）	A
7	Red fabric body（gloves）	A
8	Dark red fabric piping（gloves）	A
9	Black fabric fastener	A
10	White non-woven fabric lining（gloves）	A
11	White fiber stuffing（gloves）	A
12	Natural color rubber wood	A
13	Golden plated metal rivet	A
14	Silver stainless steel	A

TO BE CONTINUED

TEST RESULT

Total Cadmium Content

Test Request: Total cadmium content as specified in Commission Regulation (EU) 2016/217 amending entry 23 of Annex XVII of REACH Regulation (EC) No 1907/2006.

Test Method: EPA 3050B:1996, EPA 3051A:2007, EPA 3052:1996
Acid digestion/ microwave digestion method was used and total cadmium content was determined by ICP-OES.

Test Item(s)	Unit	Limit	MDL	Result	
				1	2
Cadmium (Cd)	mg/kg	100	5	ND	ND

Test Item(s)	Unit	Limit	MDL	Result
				3
Cadmium (Cd)	mg/kg	100	5	ND

Remark:
mg/kg = milligram per kilogram
MDL = method detection limit
ND = Not detected, less than MDL

TO BE CONTINUED

TEST RESULT

Pentachlorophenol (PCP) Content

Test Request: Pentachlorophenol and its salts and esters content as specified in Regulation (EU) 2019/1021 and its amendment Commission Regulation (EU) 2021/277 of the European Parliament and of the Council on persistent organic pollutants(POPs) as regards Annex I Part A.

Test Method: With reference to § 64 LFGB BVL B 82.02-8:2001, analysis was performed by GC-MS

Test Item(s)	CAS No.	Unit	Limit	MDL	Result			
					1	4+5+6	7+8	10+11
Pentachlorophenol(PCP)	87-86-5	mg/kg	5	0.05	ND	ND	ND	ND

Test Item(s)	CAS No.	Unit	Limit	MDL	Result
					3
Pentachlorophenol(PCP)	87-86-5	mg/kg	5	0.05	ND

Remarks:
According to client's request, tests are combination tests. The experimental results are the total result of mixed samples.
mg/kg = milligram per kilogram
MDL = method detection limit
ND = Not detected, less than MDL

Pentachlorophenol (PCP) Content

Test Request: Pentachlorophenol and its salts and esters content as specified in Regulation (EU) 2019/1021 and its amendment Commission Regulation (EU) 2021/277 of the European Parliament and of the Council on persistent organic pollutants(POPs) as regards Annex I Part A.

Test Method: With reference to EPA3550C:2007, EPA8270E:2018, analysis was performed by GC-MS.

Test Item(s)	CAS No.	Unit	Limit	MDL	Result
					12
Pentachlorophenol (PCP)	87-86-5	mg/kg	5	0.05	ND

Remarks:
mg/kg = milligram per kilogram
MDL = method detection limit
ND = Not detected, less than MDL

TO BE CONTINUED

TEST RESULT

Total Lead Content

Test Request: Total lead content as specified in entry 63 of annex XVII of REACH Regulation (EC) No 1907/2006 and its amendment Regulation (EU) No 2015/628.

Test Method: EPA 3050B:1996, EPA 3051A:2007, EPA 3052:1996
Acid digestion/ microwave digestion method was used and total lead content was determined by ICP-OES.

Test Item(s)	Unit	Limit	MDL	Result			
				1	2	3	4+5+6
Lead (Pb)	mg/kg	500	10	ND	22	ND	ND

Test Item(s)	Unit	Limit	MDL	Result			
				7+8+9	10+11	12	13
Lead (Pb)	mg/kg	500	10	ND	ND	ND	ND

Test Item(s)	Unit	Limit	MDL	Result
				14
Lead (Pb)	mg/kg	500	10	ND

Remark:
According to client's request, tests are combination tests. The experimental results are the total result of mixed samples.
mg/kg = milligram per kilogram
MDL = method detection limit
ND = Not detected, less than MDL

TO BE CONTINUED

TEST RESULT

Phthalates content

Test Request: Phthalates content as specified in entry 51&52 of annex XVII of REACH Regulation (EC) No 1907/2006 and its amendment Commission Regulation (EU) 2018/2005.

Test Method: IEC 62321-8:2017, solvent extraction and quantification by GC-MS.

Test Item(s)	CAS No.	Unit	Limit	MDL	Result	
					1	2
Dibutylphthalate (DBP)	84-74-2	%	-	0.005	ND	0.016
Benzylbutyl phthalate (BBP)	85-68-7	%	-	0.005	ND	ND
Diethylhexylphthalate (DEHP)	117-81-7	%	-	0.005	ND	0.013
Di-isobutyl phthalate (DiBP)	84-69-5	%	-	0.005	ND	ND
Sum (DBP + BBP + DEHP + DIBP)	-	%	0.1	-	ND	0.029
Di-n-octylphthalate (DNOP)	117-84-0	%	-	0.005	ND	ND
Diisononylphthalate (DINP)	28553-12-0	%	-	0.005	ND	ND
Diisodecyl phthalate (DIDP)	26761-40-0	%	-	0.005	ND	ND
Sum (DNOP + DINP + DIDP)	-	%	0.1	-	ND	ND

Test Item(s)	CAS No.	Unit	Limit	MDL	Result
					3
Dibutylphthalate (DBP)	84-74-2	%	-	0.005	ND
Benzylbutyl phthalate (BBP)	85-68-7	%	-	0.005	ND
Diethylhexylphthalate (DEHP)	117-81-7	%	-	0.005	ND
Di-isobutyl phthalate (DiBP)	84-69-5	%	-	0.005	ND
Sum (DBP + BBP + DEHP + DIBP)	-	%	0.1	-	ND
Di-n-octylphthalate (DNOP)	117-84-0	%	-	0.005	ND
Diisononylphthalate (DINP)	28553-12-0	%	-	0.005	ND
Diisodecyl phthalate (DIDP)	26761-40-0	%	-	0.005	ND
Sum (DNOP + DINP + DIDP)	-	%	0.1	-	ND

Remarks:
1 mg/kg = 1 ppm = 0.0001%
MDL = method detection limit
ND = Not detected, less than MDL
“- “ = Not Regulated

TO BE CONTINUED

TEST RESULT

Polycyclic Aromatic Hydrocarbons (PAHs)

Test Request: Polycyclic Aromatic Hydrocarbons (PAHs) content as specified in Regulation (EU) 2015/326 amending entry 50 of Annex XVII of REACH Regulation (EC) No 1907/2006.

Test Method: Solvent extraction and quantification by gas chromatography-mass selective detection (GC-MS) with respect to AfPS GS 2019:01 PAK

Test Item(s)	CAS No.	Unit	Limit	MDL	Result	
					1	2
Benz(a)anthracene	56-55-3	mg/kg	1	0.2	ND	ND
Chrysene	218-01-9	mg/kg	1	0.2	ND	ND
Benzo(b)fluoranthene	205-99-2	mg/kg	1	0.2	ND	ND
Benzo-(j)-fluoranthene	205-82-3	mg/kg	1	0.2	ND	ND
Benzo(k)fluoranthene	207-08-9	mg/kg	1	0.2	ND	ND
Benzo(a)pyrene	50-32-8	mg/kg	1	0.2	ND	ND
Dibenz(a,h)anthracene	53-70-3	mg/kg	1	0.2	ND	ND
Benzo(e)pyrene	192-97-2	mg/kg	1	0.2	ND	ND

Test Item(s)	CAS No.	Unit	Limit	MDL	Result
					3
Benz(a)anthracene	56-55-3	mg/kg	0.5	0.2	ND
Chrysene	218-01-9	mg/kg	0.5	0.2	ND
Benzo(b)fluoranthene	205-99-2	mg/kg	0.5	0.2	ND
Benzo-(j)-fluoranthene	205-82-3	mg/kg	0.5	0.2	ND
Benzo(k)fluoranthene	207-08-9	mg/kg	0.5	0.2	ND
Benzo(a)pyrene	50-32-8	mg/kg	0.5	0.2	ND
Dibenz(a,h)anthracene	53-70-3	mg/kg	0.5	0.2	ND
Benzo(e)pyrene	192-97-2	mg/kg	0.5	0.2	ND

Remarks:
mg/kg = milligram per kilogram
MDL = method detection limit
ND = Not detected, less than MDL

TO BE CONTINUED

TEST RESULT

Banned AZO Dyes

Test Request: Banned AZO dyes as specified in entry 43 of annex XVII of REACH Regulation (EC) No 1907/2006.

Test Method: EN ISO 14362-1:2017, EN ISO 14362-3:2017, analysis was performed by GC-MS and confirmed with HPLC-DAD/LCMSMS

Test Item(s)	CAS No.	Unit	Limit	MDL	Result		
					1	4+5+6	7+8+9
4-methyl-m-phenylenediamine/ 2,4-Toluylendiamine	95-80-7	mg/kg	30	5	ND	ND	ND
2-Naphthylamine	91-59-8	mg/kg	30	5	ND	ND	ND
4,4'-methylenedi-o-toluidine/ 3,3'-Dimethyl-4,4'-diaminodiphenylmethane	838-88-0	mg/kg	30	5	ND	ND	ND
Bis-(4-aminophenyl)methane	101-77-9	mg/kg	30	5	ND	ND	ND
4,4'-Oxydianiline	101-80-4	mg/kg	30	5	ND	ND	ND
4,4'-Thiodianiline	139-65-1	mg/kg	30	5	ND	ND	ND
Benzidine	92-87-5	mg/kg	30	5	ND	ND	ND
o-Toluidine	95-53-4	mg/kg	30	5	ND	ND	ND
5-Nitro-o-toluidine	99-55-8	mg/kg	30	5	ND	ND	ND
o-Aminoazotoluene	97-56-3	mg/kg	30	5	ND	ND	ND
4-methoxy-m-phenylenediamine/ 2,4-Diaminoanisole	615-05-4	mg/kg	30	5	ND	ND	ND
4,4'-Methylene-bis-(2-chloroaniline)	101-14-4	mg/kg	30	5	ND	ND	ND
2,4,5-Trimethylaniline	137-17-7	mg/kg	30	5	ND	ND	ND
4-Aminobiphenyl	92-67-1	mg/kg	30	5	ND	ND	ND
o-Anisidine	90-04-0	mg/kg	30	5	ND	ND	ND
3,3'-Dichlorobenzidine	91-94-1	mg/kg	30	5	ND	ND	ND
4-Chloroaniline	106-47-8	mg/kg	30	5	ND	ND	ND
3,3'-Dimethoxybenzidine	119-90-4	mg/kg	30	5	ND	ND	ND
3,3´-Dimethylbenzidine	119-93-7	mg/kg	30	5	ND	ND	ND
2-Methoxy-5-methylaniline	120-71-8	mg/kg	30	5	ND	ND	ND
4-Chloro-2-methylaniline	95-69-2	mg/kg	30	5	ND	ND	ND
4-Amino-azobenzene	60-09-3	mg/kg	30	5	ND	ND	ND

TO BE CONTINUED

TEST RESULT

Test Item(s)	CAS No.	Unit	Limit	MDL	Result
					3
4-methyl-m-phenylenediamine/ 2,4-Toluylendiamine	95-80-7	mg/kg	30	5	ND
2-Naphthylamine	91-59-8	mg/kg	30	5	ND
4,4'-methylenedi-o-toluidine/ 3,3'-Dimethyl-4,4'-diaminodiphenylmethane	838-88-0	mg/kg	30	5	ND
Bis-(4-aminophenyl)methane	101-77-9	mg/kg	30	5	ND
4,4'-Oxydianiline	101-80-4	mg/kg	30	5	ND
4,4'-Thiodianiline	139-65-1	mg/kg	30	5	ND
Benzidine	92-87-5	mg/kg	30	5	ND
o-Toluidine	95-53-4	mg/kg	30	5	ND
5-Nitro-o-toluidine	99-55-8	mg/kg	30	5	ND
o-Aminoazotoluene	97-56-3	mg/kg	30	5	ND
4-methoxy-m-phenylenediamine/ 2,4-Diaminoanisole	615-05-4	mg/kg	30	5	ND
4,4'-Methylene-bis-(2-chloroaniline)	101-14-4	mg/kg	30	5	ND
2,4,5-Trimethylaniline	137-17-7	mg/kg	30	5	ND
4-Aminobiphenyl	92-67-1	mg/kg	30	5	ND
o-Anisidine	90-04-0	mg/kg	30	5	ND
3,3'-Dichlorobenzidine	91-94-1	mg/kg	30	5	ND
4-Chloroaniline	106-47-8	mg/kg	30	5	ND
3,3'-Dimethoxybenzidine	119-90-4	mg/kg	30	5	ND
3,3´-Dimethylbenzidine	119-93-7	mg/kg	30	5	ND
2-Methoxy-5-methylaniline	120-71-8	mg/kg	30	5	ND
4-Chloro-2-methylaniline	95-69-2	mg/kg	30	5	ND
4-Amino-azobenzene	60-09-3	mg/kg	30	5	ND

Remarks:
According to client's request, tests are combination tests. The experimental results are the total result of mixed samples.
mg/kg = milligram per kilogram
MDL = method detection limit
ND = Not detected, less than MDL
1: The CAS-numbers 97-56-3 and 99-55-8 are further reduced to CAS-numbers 95-53-4 and 95-80-7.
2: 4-Amino-azobenzene(CAS No.:60-09-3) is reduced to aniline and 1, 4-phenylenediamine.

TO BE CONTINUED

TEST RESULT

Colour Fastness to Rubbing

ISO 105-X12:2016

	(1)	(3)	(4)	(5)	(6)	Requirement:
Lengthwise-Dry	4-5	4	4-5	4-5	4-5	Grade 2-3
Lengthwise-Wet	4-5	4-5	4-5	4-5	4-5	Grade 2-3
Widthwise-Dry	4-5	/	/	/	/	Grade 2-3
Widthwise-Wet	4-5	/	/	/	/	Grade 2-3

	(7)	(8)	(9)	(10)	(11)	Requirement:
Lengthwise-Dry	4-5	4-5	3	4-5	4-5	Grade 2-3
Lengthwise-Wet	4-5	4	3-4	4-5	4-5	Grade 2-3
Widthwise-Dry	4-5	/	/	4-5	4-5	Grade 2-3
Widthwise-Wet	4-5	/	/	4-5	4-5	Grade 2-3

Remark:

Grey Scale for Assessing Colour Change/Staining

Grade 5 Negligible or no change/staining
Grade 4 Slightly changed/stained
Grade 3 Noticeably changed/stained
Grade 2 Considerably changed/stained
Grade 1 Much changed/stained

TO BE CONTINUED

TEST RESULT

Formaldehyde Release

Test Request: Formaldehyde release as specified in entry 77 of annex XVII of REACH Regulation (EC) No 1907/2006 and Amendment (EU)2023/1464.

Test Method: EN 717-1:2004, sample stayed in test chamber during the whole 10 days testing period.

Test Item(s)	CAS No.	Unit	Limit	MDL	Result
					12
Formaldehyde	50-00-0	mg/m^3	0.062	0.040	ND

Remarks:

MDL = method detection limit
ND = Not detected, less than MDL
mg/m^3 = milligram per cubic meter

TO BE CONTINUED

TEST RESULT

Specific Release of Heavy Metals

Test Request: To determine specific release of heavy metals for compliance with European Directorate for the Quality of Medicines & Healthcare (EDQM)- Technical Guide on Metals and alloys used in food contact materials and articles (2nd Edition, 2024).

Test Method: With reference to European Directorate for the Quality of Medicines & Healthcare (EDQM)-Technical Guide on Metals and alloys used in food contact materials and articles (2nd Edition, 2024) for sample preparation and JRC Guidelines on testing conditions for kitchenware articles in contact with foodstuffs for test condition selection, analysis was performed by ICP-MS.

Simulant Used: 0.5% Citric acid

Test Condition: 2h at 100° C

Test Item(s)	Unit	MDL	Result			
			14			
			1st + 2nd Migration		3rd Migration	
			Result	7xSRL*2	Result	SRL*1
Aluminum (Al)	mg/kg	0.5	ND	35	ND	5
Antimony (Sb)	mg/kg	0.01	0.02	0.28	ND	0.04
Chromium (Cr)	mg/kg	0.05	0.08	7	ND	1
Cobalt (Co)	mg/kg	0.005	ND	0.14	ND	0.02
Copper (Cu)	mg/kg	0.5	ND	28	ND	4
Iron (Fe)	mg/kg	5	5	280	ND	40
Manganese (Mn)	mg/kg	0.01	0.05	0.49/3.85*4	ND	0.07/0.55*4
Molybdenum (Mo)	mg/kg	0.01	ND	0.84	ND	0.12
Nickel (Ni)	mg/kg	0.01	ND	0.98	ND	0.14
Silver (Ag)	mg/kg	0.01	ND	0.56	ND	0.08
Tin (Sn) *3	mg/kg	5	ND	700	ND	100
Vanadium (V)	mg/kg	0.001	0.001	0.07	ND	0.01
Zinc (Zn)	mg/kg	0.5	ND	35	ND	5
Zirconium (Zr)	mg/kg	0.1	ND	14	ND	2
Arsenic (As)	mg/kg	0.0005	ND	0.014	ND	0.002
Barium (Ba)	mg/kg	0.1	ND	8.4	ND	1.2
Beryllium (Be)	mg/kg	0.001	ND	0.07	ND	0.01
Cadmium (Cd)	mg/kg	0.001	ND	0.035	ND	0.005
Lead (Pb)	mg/kg	0.001	ND	0.07	ND	0.01
Lithium (Li)	mg/kg	0.005	ND	0.336	ND	0.048
Mercury (Hg)	mg/kg	0.0005	ND	0.021	ND	0.003
Thallium (Tl)	mg/kg	0.0002	ND	0.007	ND	0.001
Magnesium (Mg)	mg/kg	0.1	ND	-	ND	-
Titanium (Ti)	mg/kg	0.1	ND	-	ND	-

Remark:
mg/kg =milligram per kilogram
MDL = method detection limit
ND = not detected (<MDL)

TO BE CONTINUED

TEST RESULT

SRL = Specific Release Limit
*1 Compliance is established on the result from the third migration test for repeated used articles.
*2 Meantime, the sum of the results of the first and second tests should not exceed 7 times the SRL
*3 Except in field of application under Commission Regulation (EU) 2023/915
*4 SRL:0.07 mg/kg and 7xSRL:0.49 mg/kg particularly for materials and articles intended for contact with milk, milk products and other non-alcoholic drinks as well as any food especially intended for infants and toddlers; SRL:0.55 mg/kg and 7xSRL:3.85 mg/kg for the others.
Test condition & simulant were specified by client.

END OF THE REPORT