



TEST REPORT

Report No.: CCI260501043EN

Report Date: Jun. 03, 2026

Page 1 of 9

Applicant : Mid Ocean Brands B.V.

Address : Unit 711-716, 7/F., Tower A, 83 King Lam Street Cheung Sha Wan, Kowloon, Hong Kong

(The following sample(s) was (were) submitted and identified by client as)

Sample Name : Recycled stainless steel mug

Model/Item No. : MO2226

Vendor Code : 107978

Test Period : From May 26, 2026 to Jun. 03, 2026

Tests Conducted : As requested by the applicant, for details refer to next page(s).

Signed for and on behalf of

Compliance Control Institute (Guangzhou) Co., Ltd.

Approved by: _____

Pascal SHI/Technical Director

Compliance Control Institute (Guangzhou) Co., Ltd.

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TEST REPORT

Report No.: CCI260501043EN

Report Date: Jun. 03, 2026

Page 2 of 9

Executive Summary:

No.	TESTED SAMPLES	STANDARD / REQUIREMENT	CONCLUSION
1	Tested material(s) of submitted sample(s)	Entry 23 of Annex XVII to the REACH Regulation (EC) No.1907/2006 - Cadmium (Cd)	PASS
2	Tested material(s) of submitted sample(s)	Entry 50 of Annex XVII to the REACH Regulation (EC) No.1907/2006 - Polycyclic-aromatic hydrocarbons (PAH)	PASS
3	Tested material(s) of submitted sample(s)	Entry 51&52 of Annex XVII to the REACH Regulation (EC) No.1907/2006 - Phthalate	PASS
4	Tested material(s) of submitted sample(s)	Entry 63 of Annex XVII to the REACH Regulation (EC) No.1907/2006 - Lead (Pb)	PASS
5	Tested material(s) of submitted sample(s)	Regulation (EU) No 1935/2004 and Technical guide on Metals and alloys used in food contact materials and articles (2 nd edition), supplementing Council of Europe Resolution CM/Res (2020)9 - Specific migration of heavy metals	PASS
6	Submitted sample(s)	Dishwasher safe test for complying with the requirements stated in the Clause 5.4 of PAS 54:2003	PASS



TEST REPORT

Report No.: CCI260501043EN

Report Date: Jun. 03, 2026

Page 3 of 9

TESTS CONDUCTED:

1. Cadmium (Cd)

Test Method: With reference to EPA 3052:1996, EPA 3050B:1996, the analysis was performed by Atomic Absorption Spectroscopy (AAS) or Inductively Coupled Plasma Optical Emission Spectrometer (ICP-OES).

Material No.	Limit (mg/kg)	RL (mg/kg)	Test Result (mg/kg)	Conclusion
1+3+4	1000	2	N.D.	PASS

Note:

1. mg/kg = Milligram per kilogram.
2. N.D. = Not Detected (< RL).
3. RL = Reporting Limit.

2. Polycyclic-aromatic hydrocarbons (PAH)

Test Method: With reference to AfPS GS 2019:01 PAK, the analysis was performed by Gas Chromatography-Mass Spectrometry (GC-MS).

Restricted Substances	CAS No.	RL (mg/kg)	Test Result (mg/kg)
			1+3+4
Benzo[a]pyrene (BaP)	50-32-8	0.2	N.D.
Benzo[e]pyrene (BeP)	192-97-2	0.2	N.D.
Benzo[a]anthracene (BaA)	56-55-3	0.2	N.D.
Chrysen (CHR)	218-01-9	0.2	N.D.
Benzo[b]fluoranthene (BbFA)	205-99-2	0.2	N.D.
Benzo[j]fluoranthene (BjFA)	205-82-3	0.2	N.D.
Benzo[k]fluoranthene (BkFA)	207-08-9	0.2	N.D.
Dibenzo[a,h]anthracene (DBA _h A)	53-70-3	0.2	N.D.
Conclusion			PASS

Note:

1. mg/kg = Milligram per kilogram.
2. N.D. = Not Detected (< RL).
3. RL = Reporting Limit.
4. Requirement: a) For articles for supply to the general public: No more than 1mg/kg each;
b) For toys: No more than 0.5mg/kg each.

Compliance Control Institute (Guangzhou) Co., Ltd.

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TEST REPORT

Report No.: CCI260501043EN

Report Date: Jun. 03, 2026

Page 4 of 9

3. Phthalates

Test Method: With reference to EN 14372:2004, the analysis was performed by Gas Chromatography-Mass Spectrometry (GC-MS).

Restricted Substances	CAS No.	RL (%)	Limit (%)	Test Result (%)
				1+3+4
Bis(2-ethylhexyl) phthalate (DEHP)	117-81-7	0.003	0.1	N.D.
Dibutyl phthalate (DBP)	84-74-2	0.003	0.1	N.D.
Benzyl butyl phthalate (BBP)	85-68-7	0.003	0.1	N.D.
Diisobutyl phthalate (DIBP)	84-69-5	0.003	0.1	N.D.
Sum		/	0.1	N.D.
Di-isononyl phthalate (DINP)	28553-12-0 68515-48-0	0.005	0.1	N.D.
Di-isodecyl phthalate (DIDP)	26761-40-0 68515-49-1	0.005	0.1	N.D.
Di-n-octyl phthalate (DNOP)	117-84-0	0.003	0.1	N.D.
Sum		/	0.1	N.D.
Conclusion				PASS

Note:

1. % = Percentage by weight.
2. N.D. = Not Detected (< RL).
3. RL = Reporting Limit.
4. / = Not Specified.



TEST REPORT

Report No.: CCI260501043EN

Report Date: Jun. 03, 2026

Page 5 of 9

4. Lead (Pb)

Test Method: With reference to EPA 3052:1996, EPA 3050B:1996, the analysis was performed by Atomic Absorption Spectroscopy (AAS) or Inductively Coupled Plasma Optical Emission Spectrometer (ICP-OES).

Material No.	Limit (mg/kg)	RL (mg/kg)	Test Result (mg/kg)	Conclusion
1+3+4	500	2	N.D.	PASS
2	500	2	N.D.	PASS

Note:

1. mg/kg = Milligram per kilogram.
2. N.D. = Not Detected (< RL).
3. RL = Reporting Limit.



TEST REPORT

Report No.: CCI260501043EN

Report Date: Jun. 03, 2026

Page 6 of 9

5. Specific migration of heavy metal

Test Method: With reference to the Chapter 3 of the Technical guide on Metals and alloys used in food contact materials and articles (2nd edition), the analysis was performed by Atomic Absorption Spectrophotometer (AAS) or Inductively Coupled Plasma Optical Emission Spectrometer (ICP-OES) or Inductively Coupled Plasma Mass Spectrometer (ICP-MS).

Test Condition: 5g/L Citric acid, 70°C, 2h, 3 times release tests

Test Item	RL (mg/kg)	Limit (mg/kg)		Test Result (mg/kg)		Conclusion
				2		
		Migration of 1 st +2 nd	Migration of 3 rd	Migration of 1 st +2 nd	Migration of 3 rd	
Aluminum (Al)	0.2	35	5	N.D.	N.D.	PASS
Antimony (Sb)	0.02	0.28	0.04	N.D.	N.D.	PASS
Chromium (Cr)	0.1	7	1	N.D.	N.D.	PASS
Cobalt (Co)	0.01	0.14	0.02	N.D.	N.D.	PASS
Copper (Cu)	0.2	28	4	N.D.	N.D.	PASS
Iron (Fe)	0.5	280	40	N.D.	N.D.	PASS
Magnesium (Mg)	1.0	--	--	N.D.	N.D.	PASS
Manganese (Mn)	0.2	3.85	0.55	N.D.	N.D.	PASS
Molybdenum (Mo)	0.02	0.84	0.12	N.D.	N.D.	PASS
Nickel (Ni)	0.02	0.98	0.14	N.D.	N.D.	PASS
Silver (Ag)	0.02	0.56	0.08	N.D.	N.D.	PASS
Tin (Sn)	1.0	700	100	N.D.	N.D.	PASS
Ti(Titanium)	0.01	--	--	N.D.	N.D.	PASS
Vanadium (V)	0.005	0.07	0.01	N.D.	N.D.	PASS
Zinc (Zn)	1.0	35	5	N.D.	N.D.	PASS
Zirconium (Zr)	1.0	14	2	N.D.	N.D.	PASS
Arsenic (As)	0.001	0.014	0.002	N.D.	N.D.	PASS
Barium (Ba)	0.2	8.4	1.2	N.D.	N.D.	PASS
Beryllium (Be)	0.005	0.07	0.01	N.D.	N.D.	PASS
Cadmium (Cd)	0.002	0.035	0.005	N.D.	N.D.	PASS
Lead (Pb)	0.002	0.070	0.010	N.D.	N.D.	PASS
Lithium (Li)	0.01	0.336	0.048	N.D.	N.D.	PASS
Mercury (Hg)	0.002	0.021	0.003	N.D.	N.D.	PASS
Thallium (Tl)	0.001	0.007	0.001	N.D.	N.D.	PASS



TEST REPORT

Report No.: CCI260501043EN

Report Date: Jun. 03, 2026

Page 7 of 9

Note:

1. mg/kg = Milligram per kilogram.
2. N.D. = Not Detected (< RL).
3. RL = Reporting Limit.

6. Dishwasher safe test

Test Method: With reference to EN12875-1:2005

Number of cycles: 10

Material No.	5											
Triplicate	A	B	C	A	B	C	A	B	C	A	B	C
Inspection criteria	Color*			Gloss			Clouding			Resistant deposits and iridescent layers [#]		
Inspector 1	0	0	0	0	0	0	0	0	0	0	0	0
Inspector 2	0	0	0	0	0	0	0	0	0	0	0	0
Average Value	0			0			0			0		

Remark:

- 1, * = If several colors are present on one article to be inspected, the color with the greatest change shall be chosen.
- 2, # = For the elimination of easily removable deposits.

Evaluation of inspection criteria:

Classification	Rating
0	No visible change
1	First discernible change
2	Clearly visible change

Note:

- 1, Sample photos are for reference only. Actual colors of the photos may vary due to lighting and output process.
 - 2, Requirements quoted from the Clause 5.4 of the Publicly Available Specification PAS 54: 2003
- Articles that are designated "dishwasher resistant", "dishwasher proof", "dishwasher safe" or any other similar description that suggests that the articles can be safely cleaned in a dishwasher shall, on average, either show no visible change compared with untreated tableware (Classification 0) or show very slightly visible change (Classification 1) but shall not show clearly visible change (Classification 2).



TEST REPORT

Report No.: CCI260501043EN

Report Date: Jun. 03, 2026

Page 8 of 9

Test Material(s) List

Material No.	Description	Location	Material
1	Black coating	Mug exterior	/
2	Silvery metal	Mug interior of black mug	Stainless steel
3	White coating	Mug exterior	/
4	Green coating	Mug exterior	/
5	Black mug	/	/

Photo Appendix





TEST REPORT

Report No.: CCI260501043EN

Report Date: Jun. 03, 2026

Page 9 of 9

Additional Photo Appendix



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