QIMA
YOUR EYES IN THE SUPPLY CHAIN

TEST REPORT

Test Report #	22A-014360	Date of Report Issue:	December 6, 2022
Date of Sample Received:	November 28, 2022	Pages:	Page 1 of 20

CLIENT INFORMATION:

Company:	BEL USA LLC
Address:	12610 NW 115 Avenue, Bldg. 200 Medley, FL 33178, USA

SAMPLE INFORMATION:

Product Name:	Travel mug S/S Koozie S/S vacuum water bottle S/S vacuum bottle
Test Type:	Full Test
Model/style No.:	BM30 KZSS001 TM301I SB323 VF25
PO No.:	PO2209000012, PO2209000024
Buyer:	-
Supplier:	-
Country of Distribution:	United States
Country of Origin:	China
Testing Period:	11/29/2022-12/06/2022

OVERALL RESULT: **PASS with information**

Please refer to the following pages for test result summary and appropriate notes.

QIMA (HANGZHOU) TESTING CO., LTD.

Jeremy. Xu

Jeremy Xu
Chemical Laboratory Supervisor

TEST RESULTS SUMMARY:

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

CONCLUSION	TEST(S) CONDUCTED
PASS	California Proposition 65, Total Lead in Paints and Surface Coatings
PASS	California Proposition 65, Total Lead in Substrate Materials
PASS	The Illinois Lead Poisoning Prevention Act (LPPA) (410 ILCS 45/6), Total Lead in Paints and Surface Coatings of Other Items
PASS	The Illinois Lead Poisoning Prevention Act (LPPA) (410 ILCS 45/6), Total Lead in Substrate Materials of Other Items
PASS	California Proposition 65, Bisphenol A content
PASS	Client's requirement, Bisphenol A content
PASS	California Proposition 65, Phthalates (DBP, BBP, DEHP, DINP, DIDP, DnHP)
PASS	California Proposition 65, Lead and Cadmium – External Decoration
PASS	FDA 21 CFR 177.1210, Closures with Sealing Gaskets
PASS	FDA 21 CFR 177.1520, Polypropylene Copolymers
PASS	FDA 21 CFR 180.22 and 181.32, Acrylonitrile/Butadiene/Styrene Copolymers
Information only	FDA/GRAS Evaluation- Chemical Composition Analysis of Metal

DETAILED RESULTS:

California Proposition 65, Total Lead in Paints and Surface Coatings

Test Method: CPSC-CH-E1003-09.1
Analytical Method: Inductively Coupled Plasma-Optical Emission Spectrometry

Specimen No.	8+10	---	---	---	---	**Limit (mg/kg)**
Test Item	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	
Total Lead (Pb)	18	---	---	---	---	**90**
Conclusion	PASS	---	---	---	---	

Note:
mg/kg =Milligrams per kilogram
LT = Less than
ND = Not detected (Reporting Limit = 15mg/kg)
Composite results are based on specimen of least mass resulting in highest potential concentration.

Remark:
The specification is quoted from client's requirement.

DETAILED RESULTS:

California Proposition 65, Total Lead in Substrate Materials

Test Method: CPSC-CH-E1001-08.3 (Metal), CPSC-CH-E1002-08.3 (Non-Metal)
Analytical Method: Inductively Coupled Plasma-Optical Emission Spectrometry

Specimen No.	1	2	3+4	5	6+13	**Limit (mg/kg)**
Test Item	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	
Total Lead (Pb)	ND	46	27	ND	ND	**100**
Conclusion	PASS	PASS	PASS	PASS	PASS	

Specimen No.	7+12	11	---	---	---	**Limit (mg/kg)**
Test Item	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	
Total Lead (Pb)	ND	ND	---	---	---	**100**
Conclusion	PASS	PASS	---	---	---	

Note:
mg/kg =Milligrams per kilogram
LT = Less than
ND = Not detected (Reporting Limit =15 mg/kg)
Composite results are based on specimen of least mass resulting in highest potential concentration.

Remark:
The specification is quoted from client's requirement.

DETAILED RESULTS:

The Illinois Lead Poisoning Prevention Act (LPPA) (410 ILCS 45/6), Total Lead in Paints and Surface Coatings of Other Items

Test Method: CPSC-CH-E1003-09.1
Analytical Method: Inductively Coupled Plasma-Optical Emission Spectrometry

Specimen No.	8+10	---	---	---	---	**Total Limit (mg/kg)**
Test Item	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	
Total Lead (Pb)	18	---	---	---	---	**600**
Conclusion	PASS	---	---	---	---	

Note:
mg/kg=Milligrams per kilogram
LT = Less than
ND = Not detected (Reporting Limit = 15mg/kg)
Composite results are based on specimen of least mass resulting in highest potential concentration.

DETAILED RESULTS:

The Illinois Lead Poisoning Prevention Act (LPPA) (410 ILCS 45/6), Total Lead in Substrate Materials of Other Items

Test Method: CPSC-CH-E1001-08.3 (Metal) and/or CPSC-CH-E1002-08.3 (Non-Metal)
Analytical Method: Inductively Coupled Plasma-Optical Emission Spectrometry

Specimen No.	1	2	3+4	5	6+13	**Total**
Test Item	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	**Limit (mg/kg)**
Total Lead (Pb)	ND	46	27	ND	ND	**600**
Conclusion	PASS	PASS	PASS	PASS	PASS	

Specimen No.	7+12	11	---	---	---	**Total**
Test Item	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	**Limit (mg/kg)**
Total Lead (Pb)	ND	ND	---	---	---	**600**
Conclusion	PASS	PASS	---	---	---	

Note:
mg/kg=Milligrams per kilogram
LT = Less than
ND = Not detected (Reporting Limit = 15mg/kg)
Composite results are based on specimen of least mass resulting in highest potential concentration.

DETAILED RESULTS:

California Proposition 65, Bisphenol A content

Test Method: In-House Method
Analytical Method: Liquid Chromatography-Mass Spectrometer Mass Spectrometer (LC-MS/MS)

Specimen No.		6+13	7	---	---	**Client's limit (mg/kg)**
Test Item	CAS No.	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	
Bisphenol A (BPA)	80-05-7	ND	ND	---	---	**Not Detected**
Conclusion		PASS	PASS	---	---	

Note:
mg/kg=milligram per kilogram
ND=Not Detected(Reporting limit = 1.0mg/kg)
Composite results are based on specimen of least mass resulting in highest potential concentration.

Remark:
The specification is quoted from client's requirement.

DETAILED RESULTS:

Client's requirement, Bisphenol A content

Test Method: In-House Method
Analytical Method: Liquid Chromatography-Mass Spectrometer Mass Spectrometer (LC-MS/MS)

Specimen No.		6+13	7	---	---	**Client's limit (mg/kg)**
Test Item	CAS No.	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	
Bisphenol A (BPA)	80-05-7	ND	ND	---	---	**Not Detected**
Conclusion		PASS	PASS	---	---	

Note:
mg/kg=milligram per kilogram
ND=Not Detected(Reporting limit = 1.0mg/kg)
Composite results are based on specimen of least mass resulting in highest potential concentration.

DETAILED RESULTS:

California Proposition 65, Phthalates (DBP, BBP, DEHP, DINP, DIDP, DnHP)

Test Method: CPSC-CH-C1001-09.4
Analytical Method: Gas Chromatography with Mass Spectrometry

Specimen No.		3+4	6+13	7+12	8+10	Limit (mg/kg)
Test Item	CAS No.	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	
Dibutyl phthalate (DBP)	84-74-2	ND	ND	ND	ND	**1000**
Benzyl butyl phthalate (BBP)	85-68-7	ND	ND	ND	ND	**1000**
Di-(2-ethylhexyl) phthalate (DEHP)	117-81-7	ND	ND	ND	ND	**1000**
Diisononyl phthalate (DINP)	28553-12-0 68515-48-0	ND	ND	ND	ND	**1000**
Diisodecyl phthalate (DIDP)	26761-40-0 68515-49-1	ND	ND	ND	ND	**1000**
Di-n-hexyl phthalate (DnHP)	84-75-3	ND	ND	ND	ND	**1000**
Conclusion		PASS	PASS	PASS	PASS	

Note:
mg/kg (Milligrams per kilogram) = 0.0001 % w/w (Percent by weight)
LT = Less than
ND = Not detected (Reporting Limit = 150 mg/kg)
Composite results are based on specimen of least mass resulting in highest potential concentration.

Remark:
The specification is quoted from client's requirement.

DETAILED RESULTS:

California Proposition 65, Phthalates (DBP, BBP, DEHP, DINP, DIDP, DnHP)

Test Method: CPSC-CH-C1001-09.4
Analytical Method: Gas Chromatography with Mass Spectrometry

Specimen No.		11	---	---	---	Limit (mg/kg)
Test Item	CAS No.	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	
Dibutyl phthalate (DBP)	84-74-2	ND	---	---	---	**1000**
Benzyl butyl phthalate (BBP)	85-68-7	ND	---	---	---	**1000**
Di-(2-ethylhexyl) phthalate (DEHP)	117-81-7	ND	---	---	---	**1000**
Diisononyl phthalate (DINP)	28553-12-0 68515-48-0	ND	---	---	---	**1000**
Diisodecyl phthalate (DIDP)	26761-40-0 68515-49-1	ND	---	---	---	**1000**
Di-n-hexyl phthalate (DnHP)	84-75-3	ND	---	---	---	**1000**
Conclusion		PASS	---	---	---	

Note:
mg/kg (Milligrams per kilogram) = 0.0001 % w/w (Percent by weight)
LT = Less than
ND = Not detected (Reporting Limit = 150 mg/kg)

Remark:
The specification is quoted from client's requirement.

DETAILED RESULTS:

California Proposition 65, Lead and Cadmium – External Decoration

Test Method: NIOSH Method 9100
Analytical Method: Inductively Coupled Plasma-Optical Emission Spectrometry/Inductively Coupled Plasma-Mass Spectrometry

Specimen No.	9	---	---	---	---	**Limit (µg/article)**
Test Item	Result (µg/article)	Result (µg/article)	Result (µg/article)	Result (µg/article)	Result (µg/article)	
Lead (Pb)	ND	---	---	---	---	**1.0**
Cadmium (Cd)	ND	---	---	---	---	**4.0**
Conclusion	PASS	---	---	---	---	

Note:
µg/article = Micrograms per article
LT = Less than
ND = Not detected (Reporting Limit = 0.4 µg/article)

DETAILED RESULTS:

FDA 21 CFR 177.1210, Closures with Sealing Gaskets

Test Method: FDA 21 CFR 177.1210

Specimen No.			7	RL	Limit
Test Item	Test Condition		Result		
	Temp.	Duration			
Distilled water extractive (mg/kg)	Fill boiling	Cooling to 100°F	ND	**10**	**50**
n-Heptane extractive (mg/kg)	120°F	0.25	ND	**10**	**50**
8% Ethanol extractive (mg/kg)	Fill boiling	Cooling to 100°F	ND	**10**	**50**
Conclusion			PASS		

Note:
Temp. = Temperature
°F = Degree Fahrenheit
ppm (Parts per million) = mg/kg (Milligrams per kilogram)
LT = Less than
ND = Not detected. Result value is less than reporting limit (RL).

Remark:
The specification is quoted from 21 CFR 177.1210 Table 2 Section 3.

DETAILED RESULTS:

FDA 21 CFR 177.1520, Polypropylene Copolymers

Test Method: FDA 21 CFR 177.1520

Specimen No.			6	RL	Limit
Test Item	Test Condition		Result		
	Temp.	Duration			
Density (g/cc)	NA	NA	0.869	**NA**	**0.85 – 1.00**
n-Hexane extractive (% w/w)	50°C	2 hours	ND	**0.4**	**5.5**
Xylene extractive (% w/w)	Reflux	2 hours	13.4	**1**	**30**
Conclusion			PASS		

Note:
Temp. = Temperature
°C = Degree Celsius
g/cc = Grams per cubic centimeter
% w/w = Percent by weight
NA = Not applicable
LT = Less than
ND = Not detected. Result value is less than reporting limit (RL).

Remark:
The specification is quoted from 21 CFR 177.1520 (c) 3.1a.

DETAILED RESULTS:

FDA 21 CFR 180.22 and 181.32, Acrylonitrile/Butadiene/Styrene Copolymers

Test Method: FDA 21 CFR 180.22 and 181.32
Analytical Method: Headspace-Gas Chromatography with Mass Spectrometry

Acrylonitrile Monomers:

Specimen No.			13		
Test Simulant	Test Condition		Result	**RL**	**Limit**
	Temp.	Duration			
3% Acetic acid extractive (mg/in^2)	120°F	2 hours	ND	**0.001**	**0.003**
Conclusion			PASS		

Note:
Temp. = Temperature
°F = Degree Fahrenheit
mg/in^2 = Milligrams per square inch
LT = Less than
ND = Not detected. Result value is less than reporting limit (RL).

Remark:
The specification is quoted from 21 CFR 181.32 (b) (3).

DETAILED RESULTS:

FDA/GRAS Evaluation- Chemical Composition Analysis of Metal

Test method: SN/T 2718-2010 & GB/T 20123-2006 & GB/T 223.59-2008
Analytical Method: Inductively Coupled Plasma-Optical Emission Spectrometry
Ultraviolet-Visible Spectrophotometry
C-S analyzer

Test result: The sample **not meets** the chemical requirements of AISI 201 stainless steel.

Specimen No.:	1	---	---	---	---
Test Item	Result (% m/m)	Result (% m/m)	Result (% m/m)	Result (% m/m)	Result (% m/m)
Carbon (C)	0.100$^{\phi}$	---	---	---	---
Sulphur (S)	0.001$^{\phi}$	---	---	---	---
Silicon (Si)	0.38	---	---	---	---
Manganese (Mn)	9.13	---	---	---	---
Phosphorus (P)	0.020	---	---	---	---
Chromium (Cr)	15.71	---	---	---	---
Nickel (Ni)	1.19	---	---	---	---
Type of Stainless steel Name	AISI 201	---	---	---	---
Conclusion	Information only	---	---	---	---

Note:
% m/m = Percent by mass
LT = Less than

Type of Stainless steel Name	C	S	Si	Mn	P	Cr	Ni	Mo	Cu
AISI 201	≤0.15	≤0.03	≤0.10	5.50~7.50	≤0.060	16~18	3.5~5.5	-	-

DETAILED RESULTS:

FDA/GRAS Evaluation- Chemical Composition Analysis of Metal

Test method: SN/T 2718-2010 & GB/T 20123-2006 & GB/T 223.59-2008
Analytical Method: Inductively Coupled Plasma-Optical Emission Spectrometry
Ultraviolet-Visible Spectrophotometry
C-S analyzer

Test result: The sample **meets** the chemical requirements of AISI 304 stainless steel.

Specimen No.:	5	---	---	---	---
Test Item	Result (% m/m)	Result (% m/m)	Result (% m/m)	Result (% m/m)	Result (% m/m)
Carbon (C)	0.054$^{\phi}$	---	---	---	---
Sulphur (S)	0.005$^{\phi}$	---	---	---	---
Silicon (Si)	0.47	---	---	---	---
Manganese (Mn)	1.00	---	---	---	---
Phosphorus (P)	0.021	---	---	---	---
Chromium (Cr)	18.98	---	---	---	---
Nickel (Ni)	8.40	---	---	---	---
Type of Stainless steel Name	AISI 304	---	---	---	---
Conclusion	Information only	---	---	---	---

Note:
% m/m = Percent by mass
LT = Less than

Type of Stainless steel Name	C	S	Si	Mn	P	Cr	Ni	Mo	Cu
AISI 304	≤0.08	≤0.03	≤1.00	≤2.00	≤0.045	18~20	8~11	-	-

SPECIMEN DESCRIPTION:

Specimen No.	Specimen Description	Location
1	Silvery metal	Interior (BM30)
2	Silvery metal	Handle (BM30)
3	Black foam	Inner (KZSS001)
4	Black foam	Bottom (KZSS001)
5	Silvery metal	Interior (TM301I)
6	Black plastic	Lid (TM301I)
7	Translucent soft plastic	Sealing ring (TM301I)
8	Multi-color coating	Exterior (TM301I)
9	Multi-color coated silvery metal	Exterior (TM301I)
10	Transparent lacquer	Lid (SB323)
11	Natural bamboo	Lid (SB323)
12	Silvery soft plastic with glue	Bottom sticker (SB323)
13	Grey plastic	Switch button (VF25)

SAMPLE PHOTO:

SAMPLE PHOTO:

SAMPLE PHOTO:

-End Report-