





# TEST REPORT

Test Report # 19H-004451 Date of Report Issue: June 25, 2019

Date of Sample Received: June 17, 2019 Pages: Page 1 of 15

**CLIENT INFORMATION:** 

Company: Hit Promotional Products

Recipient: Nathan Cotter

Recipient Email: ncotter@hitpromo.net

19H-004451

**SAMPLE INFORMATION:** 

Description: 20 Oz. Aluminum Tundra Bike Bottle / 25 Oz. Aluminum Tundra Bike Bottle

Assortment: 8 colors / 7 colors Purchase Order Number: 313735

SKU No.: 5701 / 5702 Agent: Growth-Sonic

Factory No.: 127042 Country of Origin: China

Country of Distribution: United States Labeled Age Grade: 
Quantity Submitted: 5 pcs per style + 1 lot Parts Recommended Age Grade: -

Testing Period: 06/17/2019 – 06/25/2019 Tested Age Grade: -

**OVERALL RESULT:** 

**PASS** 

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

QIMA Testing (HK) Limited



Loska Yeung Lok Ka Assistant Manager, Chemical Laboratory

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# **TEST RESULTS SUMMARY:**

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

CONCLUSION	TEST(S) CONDUCTED
PASS	CPSIA Section 101 & 16 CFR 1303, Total Lead in Paints and Surface Coatings
PASS	California Proposition 65, Total Lead in Paints and Surface Coatings
PASS	CPSIA Section 101, Total Lead in Substrate Materials
PASS	California Proposition 65, Total Lead in Substrate Materials
PASS	Client's Requirement, Bisphenol A and Bisphenol S#
PASS	FDA 21 CFR 177.1210, Closures with Sealing Gaskets#
PASS	FDA 21 CFR 177.1520, Polypropylene Copolymers
PASS	Food and Drug Administration Compliance Program Guidance Manual 7304.019 Chapter 04 Toxic Elements in Food and Foodware - Leachable Lead and Cadmium#
PASS	ASTM B117-16 Resistance to Corrosion#
PASS	Canadian Consumer Products Containing Lead Regulations (SOR/2018-83), Total Lead Content

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# **DETAILED RESULTS:**

# CPSIA Section 101 & 16 CFR 1303, Total Lead in Paints and Surface Coatings

Test Method: CPSC-CH-E-1003-09.1

Analytical Method: Inductively Coupled Plasma-Optical Emission Spectrometry

Specimen No.	1+2	3+4	5+6	7+8		Total
Test Item	Result (ppm)	Result (ppm)	Result (ppm)	Result (ppm)	Result (ppm)	Limit (ppm)
Total Lead (Pb)	ND	ND	ND	ND		90
Conclusion	PASS	PASS	PASS	PASS		

Note.

ppm (Parts per million) = mg/kg (Milligrams per kilogram)

LT = Less than

ND = Not detected (Reporting Limit = 20 ppm)

Composite results are based on specimen of least mass resulting in highest potential concentration.



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# **DETAILED RESULTS:**

# California Proposition 65, Total Lead in Paints and Surface Coatings

Test Method: CPSC-CH-E-1003-09.1

Analytical Method: Inductively Coupled Plasma-Optical Emission Spectrometry

Specimen No.	1+2	3+4	5+6	7+8		Total
Test Item	Result (ppm)	Result (ppm)	Result (ppm)	Result (ppm)	Result (ppm)	Limit (ppm)
Total Lead (Pb)	ND	ND	ND	ND		90
Conclusion	PASS	PASS	PASS	PASS		

Note

ppm (Parts per million) = mg/kg (Milligrams per kilogram)

LT = Less than

ND = Not detected (Reporting Limit = 20 ppm)

Composite results are based on specimen of least mass resulting in highest potential concentration.

#### Remark:

The specification is quoted from client's requirement.

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# **DETAILED RESULTS:**

# **CPSIA Section 101, 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.	9	10	11	12	13	Total
Test Item	Result (ppm)	Result (ppm)	Result (ppm)	Result (ppm)	Result (ppm)	Limit (ppm)
Total Lead (Pb)	ND	ND	ND	ND	ND	100
Conclusion	PASS	PASS	PASS	PASS	PASS	

Note.

ppm (Parts per million) = mg/kg (Milligrams per kilogram)

LT = Less than

ND = Not detected (Reporting Limit = 20 ppm)

Composite results are based on specimen of least mass resulting in highest potential concentration.



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#### **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.	9	10	11	12	13	Total
Test Item	Result (ppm)	Result (ppm)	Result (ppm)	Result (ppm)	Result (ppm)	Limit (ppm)
Total Lead (Pb)	ND	ND	ND	ND	ND	100
Conclusion	PASS	PASS	PASS	PASS	PASS	

#### Note:

ppm (Parts per million) = mg/kg (Milligrams per kilogram)

LT = Less than

ND = Not detected (Reporting Limit = 20 ppm)

Composite results are based on specimen of least mass resulting in highest potential concentration.

### Remark:

The specification is quoted from client's requirement.

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### **DETAILED RESULTS:**

# Client's Requirement, Bisphenol A and Bisphenol S

Test Method: In-House Method#

Analytical Method: Liquid Chromatography with Mass Spectrometry or

Liquid Chromatography with Mass Spectrometry Mass Spectrometry

Specimen No.		9	10			
Test Item	CAS No.	Result (ppb)	Result (ppb)	Result (ppb)	Result (ppb)	Limit (ppb)
Bisphenol A (BPA)	80-05-7	ND	ND			ND
Bisphenol S (BPS) 80-09-1		ND	ND			ND
Conclusion		PASS	PASS			

Note

ppb (Parts per billion) =  $\mu$ g/kg (Micrograms per kilogram)

NA = Not applicable

LT = Less than

ND = Not detected (Reporting limit: BPA = 1000 ppb; BPS = 200 ppb)

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# **DETAILED RESULTS:**

# FDA 21 CFR 177.1210, Closures with Sealing Gaskets

Test Method: FDA 21 CFR 177.1210#

Specime	16	17				
Tost Itom	Test Co	ndition	Result	Result	RL	Limit
Test Item	Temp.	Duration	(ppm)	(ppm)	(ppm)	(ppm)
Distilled water extractive	Fill boiling Until Cool to 100°F		ND	10	10	50
		Conclusion	PASS	PASS		

#### Note:

Temp. = Temperature

°F = Degree Fahrenheit

ppm (Parts per million) = mg/kg (Milligrams per kilogram foodstuff)

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 2.

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#### **DETAILED RESULTS:**

# FDA 21 CFR 177.1520, Polypropylene Copolymers

Test Method: FDA 21 CFR 177.1520

Specimen No.			10			
Test Item	Temp.	Duration	Result	Result	RL	Limit
Density (g/cc)	NA	NA	0.901		NA	0.85-1.00
n-Hexane extractive (%)	50°C	2 hours	0.6		0.4	5.5
Xylene extractive (%)	Reflux 2 hours or until total dissolved		ND		1.0	30
		Conclusion	PASS			

#### Note:

Temp. = Temperature

°C = Degree Celsius

g/cc = Grams per cubic centimeter

% = 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.

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#### **DETAILED RESULTS:**

Food and Drug Administration Compliance Program Guidance Manual 7304.019 Chapter 04 Toxic Elements in Food and Foodware - Leachable Lead and Cadmium

Test Method: ASTM C738-94(Reapproved 2011)\*, In-House Method\*
Analytical Method: Inductively Coupled Plasma-Optical Emission Spectrometry

Specimen No.	14A	14B	14C	14D	14E	14F		
Test Item	Result (ppm)	Result (ppm)	Result (ppm)	Result (ppm)	Result (ppm)	Result (ppm)	Average (ppm)	Limit (ppm)
Volume of acid used (mL)	650	650	650	650	650	650		
Leachable Cadmium (Cd)	ND	ND	ND	ND	ND	ND	NA	0.5
Leachable Lead (Pb)	ND	ND	ND	ND	ND	ND	NA	2.0
Conclusion	PASS	PASS	PASS	PASS	PASS	PASS		

#### Note:

mL = Millilitres

ppm (Parts per million) = mg/L (Milligrams per litre)

NA = Not applicable

LT = Less than

ND = Not detected (Reporting Limit: Pb = 0.04 ppm; Cd = 0.02 ppm)

#### Remark:

The specification is referred from FDA CPG 545.400 & CPG 545.450.

		Category	Leachable Cd (mg/L)	Leachable Pb (mg/L)
	Cups and Mugs	(Any of 6)	0.5	0.5
	Flatware	(Average of 6)	0.5	3.0
	Large Hollowware	(Any of 6)	0.25	1.0
Х	Small Hollowware	(Any of 6)	0.5	2.0
	Pitchers	(Any of 6)	0.25	0.5

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#### **DETAILED RESULTS:**

Food and Drug Administration Compliance Program Guidance Manual 7304.019 Chapter 04 Toxic Elements in Food and Foodware - Leachable Lead and Cadmium

Test Method: ASTM C738-94(Reapproved 2011)\*, In-House Method\*
Analytical Method: Inductively Coupled Plasma-Optical Emission Spectrometry

Specimen No.	15A	15B	15C	15D	15E	15F		
Test Item	Result (ppm)	Result (ppm)	Result (ppm)	Result (ppm)	Result (ppm)	Result (ppm)	Average (ppm)	Limit (ppm)
Volume of acid used (mL)	800	800	800	800	800	800		
Leachable Cadmium (Cd)	ND	ND	ND	ND	ND	ND	NA	0.5
Leachable Lead (Pb)	ND	ND	ND	ND	ND	ND	NA	2.0
Conclusion	PASS	PASS	PASS	PASS	PASS	PASS		

#### Note:

mL = Millilitres

ppm (Parts per million) = mg/L (Milligrams per litre)

NA = Not applicable

LT = Less than

ND = Not detected (Reporting Limit: Pb = 0.04 ppm; Cd = 0.02 ppm)

#### Remark:

The specification is referred from FDA CPG 545.400 & CPG 545.450.

		Category	Leachable Cd (mg/L)	Leachable Pb (mg/L)
	Cups and Mugs	(Any of 6)	0.5	0.5
	Flatware	(Average of 6)	0.5	3.0
	Large Hollowware	(Any of 6)	0.25	1.0
Х	Small Hollowware	(Any of 6)	0.5	2.0
	Pitchers	(Any of 6)	0.25	0.5

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#### **DETAILED RESULTS:**

### **ASTM B117-16 Resistance to Corrosion**

Test Method: ASTM B117-16#

Analytical Method: Salt Spray (Fog) Apparatus

Evaluation: In-house rating

Specimen no.:	14	Dating	Conclusion	
Condition	Observation	Rating		
1% Sodium chloride solution for 24 hours	Rusting was not found on test sample.	6	PASS	

Specimen no.:	15	Rating	Conclusion	
Condition	Observation	Natilig		
1% Sodium chloride solution for 24 hours	Rusting was not found on test sample.	6	PASS	

Notes:

NR = Not required; NA = Not applicable

Rating (quantity of defect): Rating 6 = Completely free of corrosion

Rating 5 = Very minor, i.e., little or barely corrosion Rating 4 = Minor, i.e., little but significant corrosion Rating 3 = Moderate, i.e., scattered corrosion Rating 2 = Extensive, i.e., considerable corrosion

Rating 1 = Severe, i.e., dense corrosion

Requirement: Rating 6 = PASS; Rating 5 or below = FAIL (See Failure photo)



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#### **DETAILED RESULTS:**

# Canadian Consumer Products Containing Lead Regulations (SOR/2018-83), Total Lead Content

Test Method: ASTM F963-17 Clause 8.3.1

Analytical Method: Inductively Coupled Plasma-Optical Emission Spectrometry

Specimen No.	1+2	3+4	5+6	7+8	9	
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	ND	ND	ND	90
Conclusion	PASS	PASS	PASS	PASS	PASS	

Specimen No.	10	12	13			
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	ND			90
Conclusion	PASS	PASS	PASS			

### Note:

mg/kg (Milligrams per kilogram) = ppm (Parts per million) = 0.0001 % m/m (Percent by mass) LT = Less than

ND = Not detected (Reporting Limit = 20 mg/kg)

Composite results are based on specimen of least mass resulting in highest potential concentration.

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### **SPECIMEN DESCRIPTION:**

Specimen No.	Specimen Description	Location
1	Black/ dull white inseparable coating	On outer wall/ tracking information (all black styles)
2	Orange/ dull white inseparable coating	On outer wall/ tracking information (all orange styles)
3	White/ dull black inseparable coating	On outer wall/ tracking information (all white styles)
4	Red/ dull black inseparable coating	On outer wall/ tracking information (all red styles)
5	Green/ dull black inseparable coating	On outer wall/ tracking information (all lime styles)
6	Silvery/ dull black inseparable coating	On outer wall/ tracking information (all silver styles)
7	Blue/ dull white inseparable coating	On outer wall/ tracking information (all blue styles)
8	Purple/ dull white inseparable coating	On outer wall/ tracking information (20 Oz - purple style)
9	Translucent soft plastic	Gasket (all styles)
10	Black plastic (PP-co)	Lid (all styles)
11	Silvery metal	Ring (all styles)
12	Golden plated silvery metal	Inner neck (all styles)
13	Dull silvery metal	Body (all styles)
14	Golden plated silvery metal with dull silvery metal	Interior of bottle (all 20 Oz styles)
15	Golden plated silvery metal with dull silvery metal	Interior of bottle (all 25 Oz styles)
16	Translucent soft plastic (silicone)	Gasket (all 20 Oz styles)
17	Translucent soft plastic (silicone)	Gasket (all 25 Oz styles)



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### **SAMPLE PHOTO:**





-End Report-

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