QIMA
YOUR EYES IN THE SUPPLY CHAIN

AT-1500

TEST REPORT

Test Report #	22H-005683	Date of Report Issue:	August 18, 2022
Date of Sample Received:	August 12, 2022	Pages:	Page 1 of 17

CLIENT INFORMATION:

Company:	Numo Manufacturing
Recipient:	Rebecca Williams
Recipient Email:	rwilliams@numomfg.com

SAMPLE INFORMATION:

Description:	JOTTER PENS		
Assortment:	-	Purchase Order Number:	-
SKU/style No.:	-	Toy Co./Agency:	-
Factory/Supplier/Vendor:	-	Country of Origin:	-
Country of Distribution:	-	Labeled Age Grade:	-
Quantity Submitted:	6 pcs per style	Recommended Age Grade:	-
Testing Period:	08/12/2022 – 08/18/2022	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

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	Client's Requirement, Total Cadmium in Paints and Similar Surface Coatings
PASS	CPSIA Section 101, Total Lead in Substrate Materials
PASS	Client's Requirement, Total Cadmium in Substrate Materials
PASS	California Proposition 65, Phthalates (DBP, BBP, DEHP, DINP, DIDP, DnHP)
PASS	16 CFR 1307 Prohibition of Children's Toys and Child Care Articles Containing Specified Phthalates (DBP, BBP, DEHP, DINP, DHEXP / DnHP, DCHP, DIBP, DPENP)

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	---	---	---	---	**Total Limit (ppm)**
Test Item	Result (ppm)	Result (ppm)	Result (ppm)	Result (ppm)	Result (ppm)	
Total Lead (Pb)	ND	---	---	---	---	**90**
Conclusion	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.

DETAILED RESULTS:

Client's Requirement, Total Cadmium in Paints and Similar Surface Coatings

Test Method: ASTM F963-17 Clause 8.3.1
Analytical Method: Inductively Coupled Plasma-Optical Emission Spectrometry

Specimen No.	1+2+3	---	---	---	---	
Test Item	Result (ppm)	Result (ppm)	Result (ppm)	Result (ppm)	Result (ppm)	**Limit (ppm)**
Total Cadmium (Cd)	ND	---	---	---	---	**40**
Conclusion	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.

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.	4+5+6	7+8+9	10+11+12	13+14+15	16+17+18	**Total Limit (ppm)**
Test Item	Result (ppm)	Result (ppm)	Result (ppm)	Result (ppm)	Result (ppm)	
Total Lead (Pb)	ND	ND	ND	ND	ND	**100**
Conclusion	PASS	PASS	PASS	PASS	PASS	

Specimen No.	19+20+21	22+23+24	25+26+27	28+29+30	31+32+33	**Total Limit (ppm)**
Test Item	Result (ppm)	Result (ppm)	Result (ppm)	Result (ppm)	Result (ppm)	
Total Lead (Pb)	ND	ND	ND	ND	ND	**100**
Conclusion	PASS	PASS	PASS	PASS	PASS	

Specimen No.	34+35+36	37+38+39	40+41+42	43+44+45	46+47+48	**Total Limit (ppm)**
Test Item	Result (ppm)	Result (ppm)	Result (ppm)	Result (ppm)	Result (ppm)	
Total Lead (Pb)	ND	ND	ND	ND	ND	**100**
Conclusion	PASS	PASS	PASS	PASS	PASS	

Specimen No.	49+50	---	---	---	---	**Total Limit (ppm)**
Test Item	Result (ppm)	Result (ppm)	Result (ppm)	Result (ppm)	Result (ppm)	
Total Lead (Pb)	ND	---	---	---	---	**100**
Conclusion	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.

DETAILED RESULTS:

Client's Requirement, Total Cadmium in Substrate Materials

Test Method: ASTM F963-17 Clause 8.3.1
Analytical Method: Inductively Coupled Plasma-Optical Emission Spectrometry

Specimen No.	4+5+6	7+8+9	10+11+12	13+14+15	16+17+18	
Test Item	Result (ppm)	Result (ppm)	Result (ppm)	Result (ppm)	Result (ppm)	**Limit (ppm)**
Total Cadmium (Cd)	ND	ND	ND	ND	ND	**40**
Conclusion	PASS	PASS	PASS	PASS	PASS	

Specimen No.	19+20+21	22+23+24	25+26+27	28+29+30	31+32+33	
Test Item	Result (ppm)	Result (ppm)	Result (ppm)	Result (ppm)	Result (ppm)	**Limit (ppm)**
Total Cadmium (Cd)	ND	ND	ND	ND	ND	**40**
Conclusion	PASS	PASS	PASS	PASS	PASS	

Specimen No.	34+35+36	37+38+39	40+41+42	43+44+45	46+47+48	
Test Item	Result (ppm)	Result (ppm)	Result (ppm)	Result (ppm)	Result (ppm)	**Limit (ppm)**
Total Cadmium (Cd)	ND	ND	ND	ND	ND	**40**
Conclusion	PASS	PASS	PASS	PASS	PASS	

Specimen No.	49+50	---	---	---	---	
Test Item	Result (ppm)	Result (ppm)	Result (ppm)	Result (ppm)	Result (ppm)	**Limit (ppm)**
Total Cadmium (Cd)	ND	---	---	---	---	**40**
Conclusion	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.

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.		1+2+3	4+5+6	7+8+9	10+11+12	**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) = ppm (Parts per million) = 0.0001 % w/w (Percent by weight)
LT = Less than
ND = Not detected (Reporting Limit = 300 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.		13+14+15	16+17+18	19+20+21	22+23+24	**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) = ppm (Parts per million) = 0.0001 % w/w (Percent by weight)
LT = Less than
ND = Not detected (Reporting Limit = 300 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.		25+26+27	28+29+30	31+32+33	34+35+36	**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) = ppm (Parts per million) = 0.0001 % w/w (Percent by weight)
LT = Less than
ND = Not detected (Reporting Limit = 300 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.		37+38+39	40+41+42	43+44+45	46+47+48	**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) = ppm (Parts per million) = 0.0001 % w/w (Percent by weight)
LT = Less than
ND = Not detected (Reporting Limit = 300 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:

16 CFR 1307 Prohibition of Children's Toys and Child Care Articles Containing Specified Phthalates (DBP, BBP, DEHP, DINP, DHEXP / DnHP, DCHP, DIBP, DPENP)

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

Specimen No.		1+2+3	4+5+6	7+8+9	10+11+12	
Test Item	CAS No.	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	**Limit (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**
Di-N-Hexyl Phthalate (DHEXP / Dnhp)	84-75-3	ND	ND	ND	ND	**1000**
Dicyclohexyl Phthalate (DCHP)	84-61-7	ND	ND	ND	ND	**1000**
Diisobutyl Phthalate (DIBP)	84-69-5	ND	ND	ND	ND	**1000**
Di-N-Pentyl Phthalate (DPENP)	131-18-0	ND	ND	ND	ND	**1000**
	Conclusion	PASS	PASS	PASS	PASS	

Note:
mg/kg (Milligrams per Kilogram) = ppm (Parts per Million) = 0.0001 % w/w (Percent by Weight)
LT = Less Than
ND = Not Detected (Reporting Limit = 300 mg/kg)
Composite results are based on specimen of least mass resulting in highest potential concentration.

DETAILED RESULTS:

16 CFR 1307 Prohibition of Children's Toys and Child Care Articles Containing Specified Phthalates (DBP, BBP, DEHP, DINP, DHEXP / DnHP, DCHP, DIBP, DPENP)

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

Specimen No.		13+14+15	16+17+18	19+20+21	22+23+24	
Test Item	CAS No.	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	**Limit (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**
Di-N-Hexyl Phthalate (DHEXP / Dnhp)	84-75-3	ND	ND	ND	ND	**1000**
Dicyclohexyl Phthalate (DCHP)	84-61-7	ND	ND	ND	ND	**1000**
Diisobutyl Phthalate (DIBP)	84-69-5	ND	ND	ND	ND	**1000**
Di-N-Pentyl Phthalate (DPENP)	131-18-0	ND	ND	ND	ND	**1000**
	Conclusion	PASS	PASS	PASS	PASS	

Note:
mg/kg (Milligrams per Kilogram) = ppm (Parts per Million) = 0.0001 % w/w (Percent by Weight)
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DETAILED RESULTS:

16 CFR 1307 Prohibition of Children's Toys and Child Care Articles Containing Specified Phthalates (DBP, BBP, DEHP, DINP, DHEXP / DnHP, DCHP, DIBP, DPENP)

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

Specimen No.		25+26+27	28+29+30	31+32+33	34+35+36	
Test Item	CAS No.	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	**Limit (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**
Di-N-Hexyl Phthalate (DHEXP / Dnhp)	84-75-3	ND	ND	ND	ND	**1000**
Dicyclohexyl Phthalate (DCHP)	84-61-7	ND	ND	ND	ND	**1000**
Diisobutyl Phthalate (DIBP)	84-69-5	ND	ND	ND	ND	**1000**
Di-N-Pentyl Phthalate (DPENP)	131-18-0	ND	ND	ND	ND	**1000**
	Conclusion	PASS	PASS	PASS	PASS	

Note:
mg/kg (Milligrams per Kilogram) = ppm (Parts per Million) = 0.0001 % w/w (Percent by Weight)
LT = Less Than
ND = Not Detected (Reporting Limit = 300 mg/kg)
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16 CFR 1307 Prohibition of Children's Toys and Child Care Articles Containing Specified Phthalates (DBP, BBP, DEHP, DINP, DHEXP / DnHP, DCHP, DIBP, DPENP)

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

Specimen No.		37+38+39	40+41+42	43+44+45	46+47+48	
Test Item	CAS No.	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	**Limit (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**
Di-N-Hexyl Phthalate (DHEXP / Dnhp)	84-75-3	ND	ND	ND	ND	**1000**
Dicyclohexyl Phthalate (DCHP)	84-61-7	ND	ND	ND	ND	**1000**
Diisobutyl Phthalate (DIBP)	84-69-5	ND	ND	ND	ND	**1000**
Di-N-Pentyl Phthalate (DPENP)	131-18-0	ND	ND	ND	ND	**1000**
	Conclusion	PASS	PASS	PASS	PASS	

Note:
mg/kg (Milligrams per Kilogram) = ppm (Parts per Million) = 0.0001 % w/w (Percent by Weight)
LT = Less Than
ND = Not Detected (Reporting Limit = 300 mg/kg)
Composite results are based on specimen of least mass resulting in highest potential concentration.

SPECIMEN DESCRIPTION:

Specimen No.	Specimen Description	Location
1	Golden coating	On plunge/ barrel/ tip/ clip (gold style)
2	Silvery coating	On plunge/ barrel/ tip/ clip (silver style)
3	Bronze coating	On plunge/ barrel/ tip (bronze style)
4	Red plastic	Plunge/ tip (red style)
5	Dull red plastic	Clip/ barrel (red style)
6	Magenta plastic	Plunge/ tip (plum red style)
7	Dull magenta plastic	Clip/ barrel (plum red style)
8	Light pink plastic	Plunge/ tip (light pink style)
9	Dull light pink plastic	Clip/ barrel (light pink style)
10	Sharp pink plastic	Plunge/ tip (hot pink style)
11	Dull sharp pink plastic	Clip/ barrel (hot pink style)
12	Orange plastic	Plunge/ tip (orange style)
13	Dull orange plastic	Clip/ barrel (orange style)
14	Light yellow plastic	Plunge/ tip (cream yellow style)
15	Pale yellow plastic	Clip/ barrel (cream yellow style)
16	Light green plastic	Plunge/ tip (electric lime style)
17	Dull light green plastic	Clip/ barrel (electric lime style)
18	Green plastic	Plunge/ tip (green style)
19	Dull green plastic	Clip/ barrel (green style)
20	Dark green plastic	Plunge/ tip (army green style)
21	Deep green plastic	Clip/ barrel (army green style)
22	Turquoise plastic	Plunge/ tip (teal style)
23	Dull turquoise plastic	Clip/ barrel (teal style)
24	Blue plastic	Plunge/ tip (aqua style)
25	Dull blue plastic	Clip/ barrel (aqua style)
26	Deep blue plastic	Plunge/ tip (blue style)
27	Dull deep blue plastic	Clip/ barrel (blue style)

SPECIMEN DESCRIPTION:

Specimen No.	Specimen Description	Location
28	Navy plastic	Plunge/ tip (navy style)
29	Dull navy plastic	Clip/ barrel (navy style)
30	Pale blue plastic	Plunge/ tip (pale blue style)
31	Dull pale blue plastic	Clip/ barrel (pale blue style)
32	Light purple plastic	Plunge/ tip (lavender style)
33	Dull light purple plastic	Clip/ barrel (lavender style)
34	Deep purple plastic	Plunge/ tip (purple style)
35	Dull deep purple plastic	Clip/ barrel (purple style)
36	Flat pink plastic	Plunge/ tip (purplish pink style)
37	Dull flat pink plastic	Clip/ barrel (purplish pink style)
38	Black plastic	Plunge/ tip (black style)
39	Dull black plastic	Clip/ barrel (black style)
40	White plastic	Plunge/ tip (white style)
41	Dull white plastic	Clip/ barrel (white style)
42	Grey plastic	Plunge/ tip (gray style)
43	Dull grey plastic	Clip/ barrel (gray style)
44	Deep yellow plastic	Plunge/ barrel/ tip/ clip (gold style)
45	Dull silvery plastic	Plunge/ barrel/ tip/ clip (silver style)
46	Brown plastic	Plunge/ tip (brown style)
47	Dull brown plastic	Clip/ barrel (brown style)
48	Beige plastic	Plunge/ barrel/ clip/ tip (bronze style)
49	Black ink	Ink (all styles except cream yellow style)
50	Yellow ink	Ink (cream yellow style)

SAMPLE PHOTO:

-End Report-