



# Test Report

Report No: BSTDG22060821850301CR

Date: June. 08, 2022

**Applicant** : Shenzhen Big Fish Sports Technology Co., LTD.  
**Address** : 201-17 Jiangnan Building, No.21, East Yongxiang Road, Ma' an tang Community, Bantian Street, Longgang District, Shenzhen, CHINA.  
**Sample Name** : Electric bicycle  
**Trademark** : ENGWE  
**Main test model** : ENGINE X  
**Sample Received Date** : May30, 2022  
**Testing Period** : June.8, 2022  
**Test Requested** : Selected test (s) in the selected parts as requested by client with the RoHS 2 Directive 2011/65/EU Annex II (EU) 2015/863 at last amended by Directive (EU) 2017/2102.  
**Test Method** : Please refer to next page(s).  
**Test Result** : Please refer to next page(s).

Signed for and on behalf of



Approved Signatory

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**Dongguan BST Testing Co., Ltd.**

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## Test Content:

Test Item(s)	Test Method	Reference	Unit	Limit	MDL
Cadmium(Cd)	IEC 62321-5:2013	ICP-OES	mg/kg	100	2
Lead(Pb)	IEC 62321-5:2013	ICP-OES	mg/kg	1000	2
Mercury(Hg)	IEC 62321-4:2013+AMD1:2017	ICP-OES	mg/kg	1000	2
Hexavalent Chromium(CrVI) (Metal)	IEC 62321-7-1:2015	UV-Vis	µg/cm <sup>2</sup>	0.13	0.1
Hexavalent Chromium(CrVI) (Nonmetal)	IEC 62321-7-2:2017	UV-Vis	mg/kg	1000	8
PBBs (Next form)	IEC 62321-6:2015	GC-MS	mg/kg	1000	5
PBDEs (Next form)	IEC 62321-6:2015	GC-MS	mg/kg	1000	5
Dibutyl Phthalate(DBP)	IEC 62321-8:2017	GC-MS	mg/kg	1000	30
Butyl benzyl phthalate (BBP)	IEC 62321-8:2017	GC-MS	mg/kg	1000	30
Di-(2-ethylhexyl) Phthalate(DEHP)	IEC 62321-8:2017	GC-MS	mg/kg	1000	30
Diisobutyl phthalate (DIBP)	IEC 62321-8:2017	GC-MS	mg/kg	1000	30

PBBs		PBDEs	
Monobromobiphenyl	Hexabromobiphenyl	Monobromodiphenyl ether	Hexabromodiphenyl ether
Dibromobiphenyl	Heptabromobiphenyl	Dibromodiphenyl ether	Heptabromodiphenyl ether
Tribromobiphenyl	Octabromobiphenyl	Tribromodiphenyl ether	Octabromodiphenyl ether
Tetrabromobiphenyl	Nonabromobiphenyl	Tetrabromodiphenyl ether	Nonabromodiphenyl ether
Pentabromobiphenyl	Decabromobiphenyl	Pentabromodiphenyl ether	Decabromodiphenyl ether

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## Sample Description:

No.	Description	Name
1	Metal aluminum alloy	Aluminum alloy tube
2	rubber	tyre
3	Metal aluminum alloy	frame
4	Metal iron	chain
5	Metal iron	brandrith
6	Metal iron	toolkit
7	Metal iron	The mud board
8	Metal iron	headlight
9	Metal magnesium alloy	Rear motor
10	Metal iron aluminum	front fork
11	Black leather face	Saddle
12	nylon	Saddle pipe liner
13	plastic material	exciter lamp
14	resin	Instrument
15	Metal semi-aluminum	pedal
16	Metal aluminum alloy	Brake device
17	Metal stainless steel	screw
18	paper capa-citor	specifications
19	Black plastic	charger
20	Black plastic	Variable speed line pipe
21	Black plastic	Brake line
22	paper capa-citor	carton
23	plastic material	take-up strap; TUS
24	plastic material	Protective film
25	plastic material	Wheel reflective sheet
26	spume	spume
27	pearl wool	pearl wool

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## Test Result

Test Item(s)	No.1	No.2	No.3	No.4	No.5
Cadmium (Cd)	N.D.	N.D.	N.D.	N.D.	N.D.
Lead (Pb)	N.D.	N.D.	N.D.	N.D.	N.D.
Mercury (Hg)	N.D.	N.D.	N.D.	N.D.	N.D.
Hexavalent Chromium (CrVI)	N.D.	N.D.	N.D.	N.D.	N.D.
PBBs	--	N.D.	--	--	--
PBDEs	--	N.D.	--	--	--
Dibutyl Phthalate (DBP)	--	N.D.	--	--	--
Butyl benzyl phthalate (BBP)	--	N.D.	--	--	--
Di-(2-ethylhexyl) Phthalate(DEHP)	--	N.D.	--	--	--
Diisobutyl phthalate (DIBP)	--	N.D.	--	--	--

Test Item(s)	No.6	No.7	No.8	No.9	No.10
Cadmium (Cd)	N.D.	N.D.	N.D.	N.D.	N.D.
Lead (Pb)	N.D.	N.D.	N.D.	N.D.	N.D.
Mercury (Hg)	N.D.	N.D.	N.D.	N.D.	N.D.
Hexavalent Chromium (CrVI)	N.D.	N.D.	N.D.	N.D.	N.D.
PBBs	--	--	--	--	--
PBDEs	--	--	--	--	--
Dibutyl Phthalate (DBP)	--	--	--	--	--
Butyl benzyl phthalate (BBP)	--	--	--	--	--
Di-(2-ethylhexyl) Phthalate(DEHP)	--	--	--	--	--
Diisobutyl phthalate (DIBP)	--	--	--	--	--

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Test Item(s)	No.11	No.12	No.13	No.14	No.15
Cadmium (Cd)	N.D.	N.D.	N.D.	N.D.	N.D.
Lead (Pb)	N.D.	N.D.	N.D.	N.D.	N.D.
Mercury (Hg)	N.D.	N.D.	N.D.	N.D.	N.D.
Hexavalent Chromium (CrVI)	N.D.	N.D.	N.D.	N.D.	N.D.
PBBs	N.D.	N.D.	N.D.	N.D.	--
PBDEs	N.D.	N.D.	N.D.	N.D.	--
Dibutyl Phthalate (DBP)	N.D.	N.D.	N.D.	N.D.	--
Butyl benzyl phthalate (BBP)	N.D.	N.D.	N.D.	N.D.	--
Di-(2-ethylhexyl) Phthalate(DEHP)	N.D.	N.D.	N.D.	N.D.	--
Diisobutyl phthalate (DIBP)	N.D.	N.D.	N.D.	N.D.	--

Test Item(s)	No.16	No.17	No.18	No.19	No.20
Cadmium (Cd)	N.D.	N.D.	N.D.	N.D.	N.D.
Lead (Pb)	N.D.	N.D.	N.D.	N.D.	N.D.
Mercury (Hg)	N.D.	N.D.	N.D.	N.D.	N.D.
Hexavalent Chromium (CrVI)	N.D.	N.D.	N.D.	N.D.	N.D.
PBBs	--	--	N.D.	N.D.	N.D.
PBDEs	--	--	N.D.	N.D.	N.D.
Dibutyl Phthalate (DBP)	--	--	N.D.	N.D.	N.D.
Butyl benzyl phthalate (BBP)	--	--	N.D.	N.D.	N.D.
Di-(2-ethylhexyl) Phthalate(DEHP)	--	--	N.D.	N.D.	N.D.
Diisobutyl phthalate (DIBP)	--	--	N.D.	N.D.	N.D.

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Test Item(s)	No.21	No.22	No.23	No.24	No.25
Cadmium (Cd)	N.D.	N.D.	N.D.	N.D.	N.D.
Lead (Pb)	N.D.	N.D.	N.D.	N.D.	N.D.
Mercury (Hg)	N.D.	N.D.	N.D.	N.D.	N.D.
Hexavalent Chromium (CrVI)	N.D.	N.D.	N.D.	N.D.	N.D.
PBBs	N.D.	N.D.	N.D.	N.D.	N.D.
PBDEs	N.D.	N.D.	N.D.	N.D.	N.D.
Dibutyl Phthalate (DBP)	N.D.	N.D.	N.D.	N.D.	N.D.
Butyl benzyl phthalate (BBP)	N.D.	N.D.	N.D.	N.D.	N.D.
Di-(2-ethylhexyl) Phthalate(DEHP)	N.D.	N.D.	N.D.	N.D.	N.D.
Diisobutyl phthalate (DIBP)	N.D.	N.D.	N.D.	N.D.	N.D.

Test Item(s)	No.26	No.27			
Cadmium (Cd)	N.D.	N.D.			
Lead (Pb)	N.D.	N.D.			
Mercury (Hg)	N.D.	N.D.			
Hexavalent Chromium (CrVI)	N.D.	N.D.			
PBBs	N.D.	N.D.			
PBDEs	N.D.	N.D.			
Dibutyl Phthalate (DBP)	N.D.	N.D.			
Butyl benzyl phthalate (BBP)	N.D.	N.D.			
Di-(2-ethylhexyl) Phthalate(DEHP)	N.D.	N.D.			
Diisobutyl phthalate (DIBP)	N.D.	N.D.			

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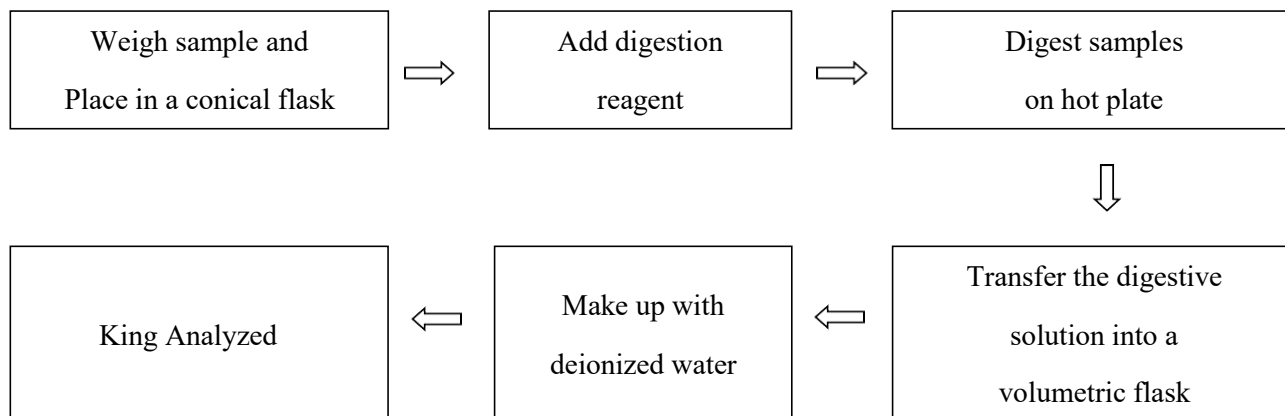
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- Note:**
1. mg/kg= ppm
  2. N.D.= Not Detected(<MDL)
  3. MDL = Method Detection Limit
  4. -- = No Testing
  5. when Cr(VI) in a sample is detected below the  $0.10 \mu\text{g}/\text{cm}^2$  LOQ (limit of quantification), the sample is considered to be negative for Cr(VI). Since Cr(VI) may not be uniformly distributed in the coating even within the same sample batch, a "grey zone" between  $0.10 \mu\text{g}/\text{cm}^2$  and  $0.13 \mu\text{g}/\text{cm}^2$  has been established as "inconclusive" to reduce inconsistent results due to unavoidable coating variations. In this case, additional testing may be necessary to confirm the presence of Cr(VI). When Cr(VI) is detected above  $0.13 \mu\text{g}/\text{cm}^2$ , the sample is considered to be positive for the presence of Cr(VI) in the coating layer. unavoidable coating variations may influence the determination Information on storage conditions and production date of the tested sample is unavailable and thus Cr(VI) results represent status of the sample at the time of testing.

## Test Process:

### 1. Test for Cd/Pb Content



1.

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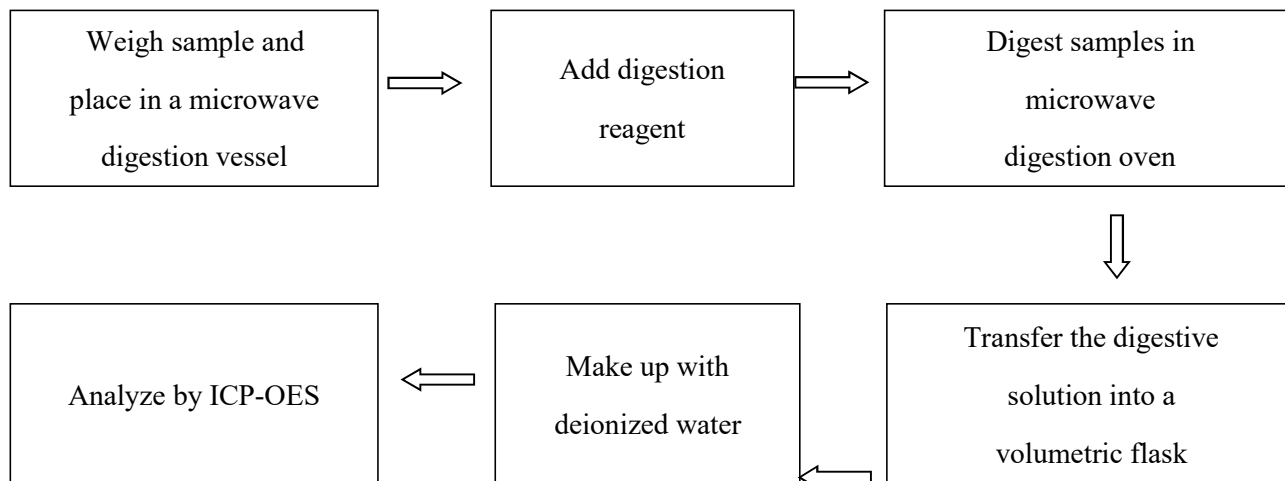


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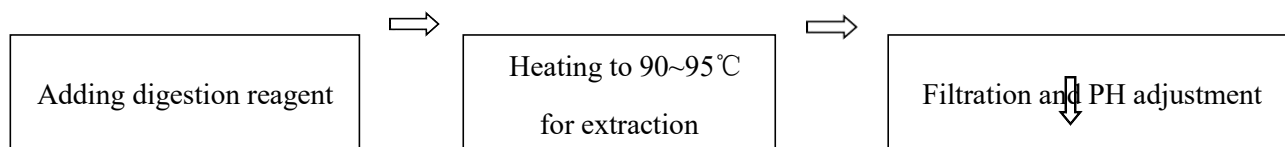
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## 2. Test for Hg Content



## 3. Test for Chromium (VI) Content Nonmetal material



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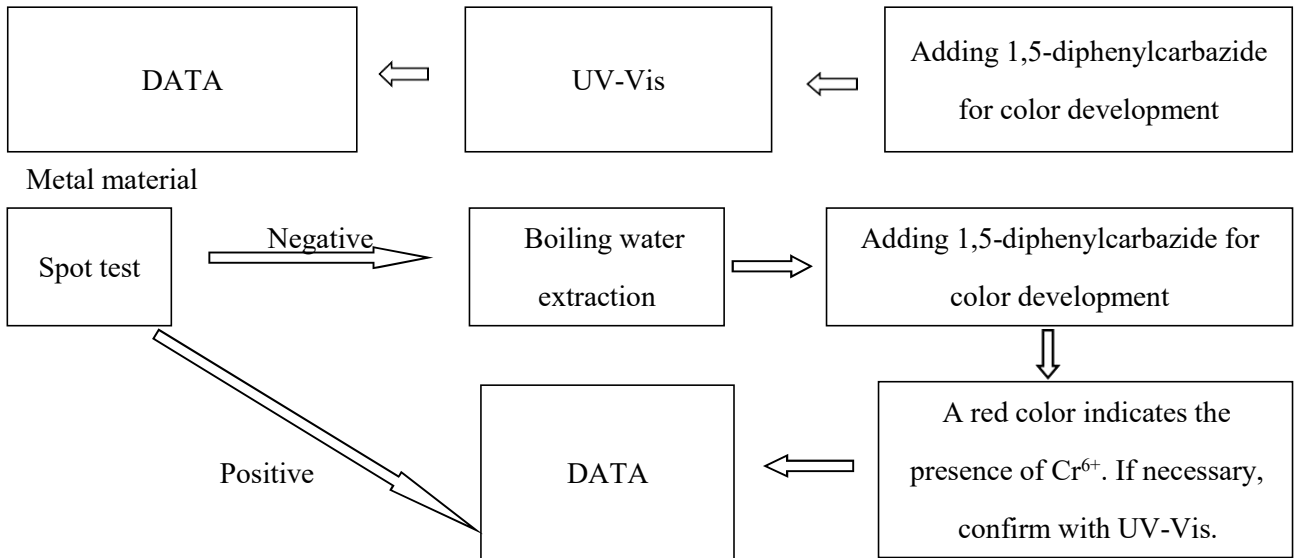


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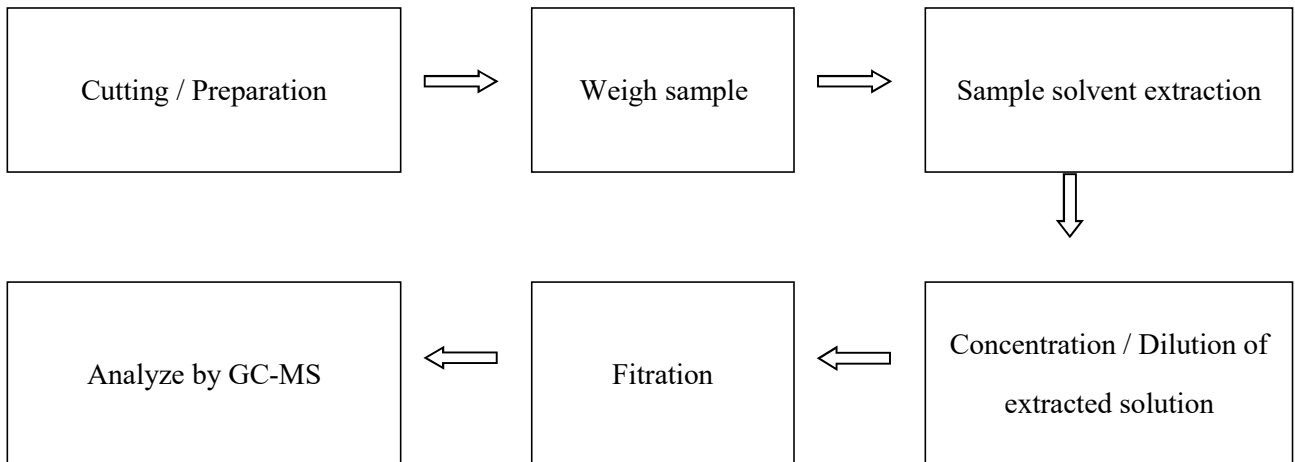
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## 1. Test for DBP, BBP, DEHP, DIBP, PBB, PBDE Content



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## Sample Photo:



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