Technical documentation

Technical documentation according Batteries Regulation 2023/1542, Annex VIII, Part A, Module A - “Internal production control”, Clause 2:

a) General description of the battery and its intended use.

Lead battery filled with diluted sulphuric acid specifically designed to supply electric power for starting, lighting, or ignition and that can also be used for auxiliary or backup purposes in vehicles, other means of transport or machinery.

Technical data:

Part number:	1412666
Customer part number:	6-QW-80(600)
Voltage:	12 V
Capacity:	80 Ah
Cold cranking current:	600 A
Size:	D31

b) Conceptual design and manufacturing drawings and schemes of components, sub-assemblies, and circuits.

- Flooded[1] / EFB[2]-Batteries: Lead battery with liquid electrolyte.
- AGM[3] / VRLA[4] -Batteries: Valve regulated lead battery with electrolyte immobilized by absorbent glass mat.
- Series connection of six single cells in a single PP container

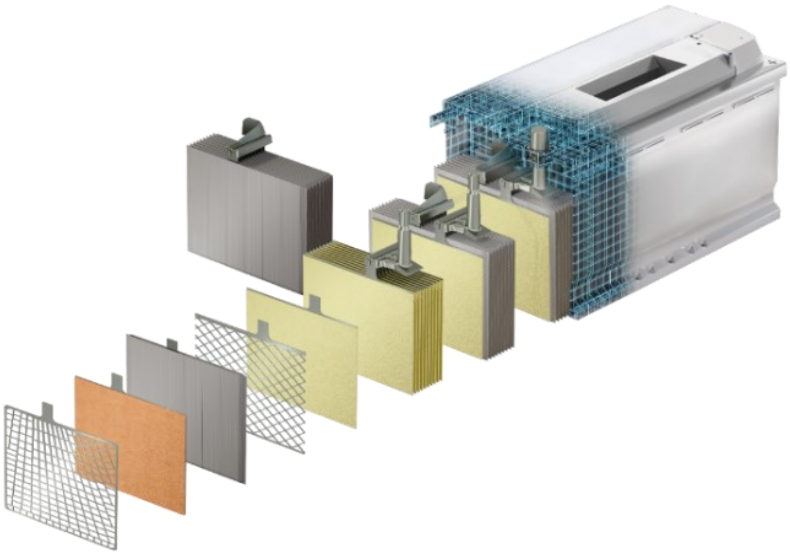

Figure 1 - Conceptual design of a typical lead battery

[1] Flooded or vented batteries - secondary battery having a cover provided with one or more openings through which gaseous products may escape.
[2] Enhanced Flooded Batteries - EFB - secondary batteries with additional special design features to significantly improve the cycling capability compared to standard flooded batteries.
[3] Absorbent Glass Mat batteries - AGM - VRLA batteries in which the electrolyte is immobilized by absorption in a glass mat.
[4] Valve Regulated Lead-Acid batteries - VRLA - valve regulated lead-acid batteries are secondary batteries which are closed under normal conditions, but which has an arrangement that allows the escape of gas if the internal pressure exceeds a predetermined value.

c) Descriptions and explanations necessary for the understanding of the drawings and schemes and the operation of the battery.

No further documentation is needed to understand drawings and schemes. For any details concerning operation of the battery refer to safety instructions and user manual.

d) A specimen of the label required in accordance with Article 13.

Batteries are marked with the symbol for separate collection according to Annex VI Part B (defined as well in IEC 60417-6414) and with the chemical symbol “Pb” for the heavy metal Pb content according to Article 13 (3)

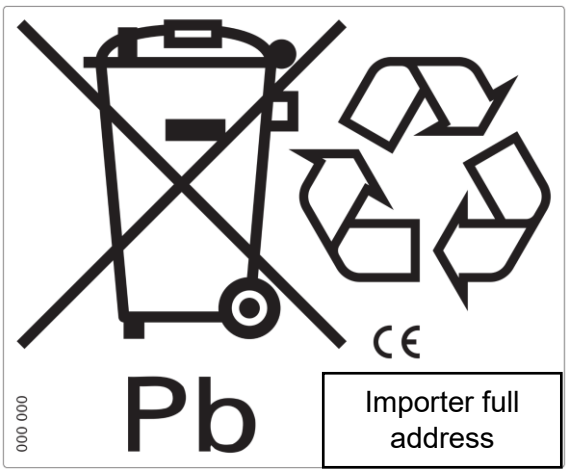

Figure 2 – Example of marking with symbol for separate collection according to Annex VI Part B and with the chemical symbol “Pb” for the heavy metal Pb content according to Article 13.

e) List of the harmonized standards and common specification and other relevant technical specifications used for measurement or calculation purposes.

There are no harmonized standards available. There are no measurements or calculations needed to fulfill applicable requirements according to Article 6 (Restriction on substances) and Article 13 (Labelling and marking of batteries).

f) Description of the solutions adopted to meet the applicable requirements.

a) Article 6 (Restrictions on substances)

1. Please see appendix A – 3rd party sample testing report compliance with ELV, REACH & EU2023/1542 ANNEX I requirements.
2. Also, Compliance to requirements of Annex XVII to Regulation (EC) No 1907/2006, Article 4(2), point (a), of Directive 2000/53/EC and Annex I of Batteries Regulation 2023/1542 is guaranteed by material specifications and incoming goods inspections.

b) Article 13 (Labelling and marking of batteries)

An example of the required label is shown in section d).

g) Results of design calculations made and the examinations carried out, and the technical or documentary evidence used

There are no design calculations needed to fulfill applicable requirements according to Article 6 (Restriction on substances) and Article 13 (Labelling and marking of batteries). Examinations concerning restricted substances according to Article 6 are realized by incoming goods inspections.

Appendix A

Declaration of same material

3rd party sample testing report on:

ELV (end-of life vehicles)

REACH

EU2023/1542 ANNEX I

CLARIOS

Declaration of The Same Material for ChongQing Plant's SLI/EFB Products

We hereby submit the SLI/EFB battery parts from all batches from the ChongQing factory of our company, Clarios (Shanghai) Company Management Co., Ltd. All or part of the sub parts are of the same material as the **SLI D31R (SAP PN: 1356845, Customer PN / GB name: 6-QW-80(600))** listed in the table below in terms of material, process, raw material supplier, surface treatment, etc. If there is any inconsistency with the facts, Clarios will bear all risks, economic and legal responsibilities.

No.	SAP PN	Part description	Customer PN / GB name	ELV testing report No. (Attached)	REACH testing report No. (Attached)	Annex I of Regulation (EU)2023/1542 testing report No. (Attached)
1	1468042	45Ah/350A/B24	P00000121100	SHAAUTO24003539801_1	SHAAUTO24004367401_1	SHAAUTO24003555803
2	1492393	88Ah/680A/LN5(H8)	6-QW-88(680)-L			
3	1492392	84Ah/700A/LN4(H7)	6-QW-84(700)-L			
4	1356844	80AH/600A/D31L	6-QW-80(600)-L			
5	1277161	65Ah/550A/D23	6-QW-65(550)-L			
6	1277160	45Ah/380A/B24	6-QW-45(380)-L			
7	1277157	36Ah/310A/B19	6-QW-36(310)-LT1			
8	1391692	36Ah/310A/B19	6-QW-36(310)-LT2			
9	1483082	45Ah/350A/B24	6-QW-45(350)-L			
10	1277157	36Ah/310A/B24	6-QW-36(310)-LT1			
11	1277160	45Ah/380A/B24	6-QW-45(380)-L			
12	1277161	65Ah/550A/D23	6-QW-65(550)-L			
13	1277173	75Ah/650A/D26	6-QW-75(650)			
14	1277180	60Ah/580A/LN2(H5)	6-QW-60(580)-L			
15	1277181	60Ah/580A/LN2(H5)	6-QW-60(580)-L			
16	1391692	36Ah/310A/B19	6-QW-36(310)-LT1			
17	1503377	45Ah/350A/B24	P00000121101			
18	1436348	75AH/650A/D26R	6-QW-75(650)-R			
19	1386362	72AH/600A/D26L	6-QW-72(600)-L			
20	1492570	70AH/680A/EFB S95R	6-QW-70(680)			
21	1356845	80AH/600A/D31R	6-QW-80(600)			
22	1503775	45Ah/350A/B24	3703100-BA001-AA00000			
23	1503776	60Ah/550A/H5	3703100-ED001-AA00000			
24	1412666	80Ah/600A/D31	6-QW-80(600)			
25	1412665	80Ah/600A/D31	6-QW-80(600)-L			
26	1493322	80Ah/650A/T7	6-QW-80(650)-L			

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27	1493323	100Ah/720A/H8(LN5)	6-QW-100(720)-L	SHAAUTO24003539807_1	SHAAUTO24004367401_1	SHAAUTO24003555803
28	1277662	45Ah/350A/B24	6-QW-45(350)-L			
29	1277174	80Ah/600A/D31	6-QW-80(600)-L			
30	1490682	60Ah/500A/D23	6-QW-60(500)-L			
31	1414406	60Ah/500A/D23	6-QW-60(500)-L			
32	1277184	72Ah/700A/H6(LN3)	6-QW-72(700)-L			

Clarios (Shanghai) Company Management Co., Ltd. 克拉瑞斯(上海)企业管理有限公司 工程部

Note: If the parts of the assembly are not completely the same material and only the lower parts of the assembly are the same material, please list the corresponding relationship between the lower parts of each component assembly in the table.

ELV (end-of life vehicles) test report

Client Name: CLARIOS (SHANGHAI) COMPANY MANAGEMENT CO., LTD.

Client Address: 700-800 Kangiao Road,Pudong

Sample Name:	SLI D31 lead-acid battery
Product Specification:	12V/80Ah
Manufacturer:	Clarios(Chongqing) Power Solutions Co., Ltd.
Manufacturer Address:	1 Long Xiang Road Fuling,ChongQing
Part No:	6-QW-80(600)
Client Ref Infer:	Quantity:3

The above sample(s) and information were provided by the client.

THIS REPORT IS TO SUPERSEDE TEST REPORT NO.SHAAUTO24003539801, DATE: Mar 21, 2024.

SGS Job No.:	SHAT2402002738DW-3
Sample Receiving Date:	Feb 29, 2024
Testing Period:	Feb 29, 2024 ~ Mar 21, 2024
Test Requested:	As specified by applicant, determination of heavy metals, with reference to End-of Life Vehicles Directive (2000/53/EC) and its amendment directives.
Test Method(s):	Please refer to next page(s).
Test Result(s):	Please refer to next page(s).
Conclusion:	Based on the performed tests on submitted samples as specified by applicant, the test results of heavy metals comply with End-of Life Vehicles Directive (2000/53/EC) and its amendment directives.

Signed for and on behalf of
SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd.

Peter Fang

Peter Fang
Approved Signatory

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Test Result(s)

Part No.	Part Description	Restricted Substances	Conclusion of EDXRF(1)	Result of Wet Chemical Testing(2) (mg/kg)	Conclusion on ELV	Sample Submitted / Resubmitted Date
A1	Black plastic (handle)	Cd	BL	---	Comply	Feb 29, 2024
		Pb	BL	---	Comply	
		Hg	BL	---	Comply	
		Cr(VI)▼	BL	---	Comply	
		PBBs	BL	---	---	
		PBDEs	BL	---	---	
A2	Black adhesive plastic (label)	Cd	BL	---	Comply	Feb 29, 2024
		Pb	BL	---	Comply	
		Hg	BL	---	Comply	
		Cr(VI)▼	BL	---	Comply	
		PBBs	BL	---	---	
		PBDEs	BL	---	---	
A3	Red adhesive plastic (label)	Cd	BL	---	Comply	Feb 29, 2024
		Pb	BL	---	Comply	
		Hg	BL	---	Comply	
		Cr(VI)▼	BL	---	Comply	
		PBBs	BL	---	---	
		PBDEs	BL	---	---	
A4	Yellow adhesive plastic (label)	Cd	BL	---	Comply	Feb 29, 2024
		Pb	BL	---	Comply	
		Hg	BL	---	Comply	
		Cr(VI)▼	BL	---	Comply	
		PBBs	BL	---	---	
		PBDEs	BL	---	---	
A5	Blue adhesive plastic (label)	Cd	BL	---	Comply	Feb 29, 2024
		Pb	BL	---	Comply	
		Hg	BL	---	Comply	
		Cr(VI)▼	BL	---	Comply	
		PBBs	BL	---	---	
		PBDEs	BL	---	---	

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Part No.	Part Description	Restricted Substances	Conclusion of EDXRF(1)	Result of Wet Chemical Testing(2) (mg/kg)	Conclusion on ELV	Sample Submitted / Resubmitted Date
A6	Blue adhesive plastic (label)	Cd	BL	---	Comply	Feb 29, 2024
		Pb	BL	---	Comply	
		Hg	BL	---	Comply	
		Cr(VI)▼	BL	---	Comply	
		PBBs	BL	---	---	
		PBDEs	BL	---	---	
A7	Black/White adhesive plastic (label)	Cd	BL	---	Comply	Feb 29, 2024
		Pb	BL	---	Comply	
		Hg	BL	---	Comply	
		Cr(VI)▼	BL	---	Comply	
		PBBs	BL	---	---	
		PBDEs	BL	---	---	
A8	White adhesive plastic (label)	Cd	BL	---	Comply	Feb 29, 2024
		Pb	BL	---	Comply	
		Hg	BL	---	Comply	
		Cr(VI)▼	BL	---	Comply	
		PBBs	BL	---	---	
		PBDEs	BL	---	---	
A9	Black/White adhesive plastic (label)	Cd	BL	---	Comply	Feb 29, 2024
		Pb	BL	---	Comply	
		Hg	BL	---	Comply	
		Cr(VI)▼	BL	---	Comply	
		PBBs	BL	---	---	
		PBDEs	BL	---	---	
A10	Blue plastic (boot)	Cd	BL	---	Comply	Feb 29, 2024
		Pb	BL	---	Comply	
		Hg	BL	---	Comply	
		Cr(VI)▼	BL	---	Comply	
		PBBs	BL	---	---	
		PBDEs	BL	---	---	

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Part No.	Part Description	Restricted Substances	Conclusion of EDXRF(1)	Result of Wet Chemical Testing(2) (mg/kg)	Conclusion on ELV	Sample Submitted / Resubmitted Date
A11	Red plastic (boot)	Cd	BL	---	Comply	Feb 29, 2024
		Pb	BL	---	Comply	
		Hg	BL	---	Comply	
		Cr(VI)▼	BL	---	Comply	
		PBBs	BL	---	---	
		PBDEs	BL	---	---	
A12	Black plastic (protective shell)	Cd	BL	---	Comply	Feb 29, 2024
		Pb	BL	---	Comply	
		Hg	BL	---	Comply	
		Cr(VI)▼	BL	---	Comply	
		PBBs	BL	---	---	
		PBDEs	BL	---	---	
A13	Black plastic (fixed board)	Cd	BL	---	Comply	Feb 29, 2024
		Pb	BL	---	Comply	
		Hg	BL	---	Comply	
		Cr(VI)▼	BL	---	Comply	
		PBBs	BL	---	---	
		PBDEs	BL	---	---	
A14	Black adhesive plastic (label)	Cd	BL	---	Comply	Feb 29, 2024
		Pb	BL	---	Comply	
		Hg	BL	---	Comply	
		Cr(VI)▼	BL	---	Comply	
		PBBs	BL	---	---	
		PBDEs	BL	---	---	
A15	Red adhesive plastic (label)	Cd	BL	---	Comply	Feb 29, 2024
		Pb	BL	---	Comply	
		Hg	BL	---	Comply	
		Cr(VI)▼	BL	---	Comply	
		PBBs	BL	---	---	
		PBDEs	BL	---	---	

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Part No.	Part Description	Restricted Substances	Conclusion of EDXRF(1)	Result of Wet Chemical Testing(2) (mg/kg)	Conclusion on ELV	Sample Submitted / Resubmitted Date
A16	Black/White adhesive plastic (label)	Cd	BL	---	Comply	Feb 29, 2024
		Pb	BL	---	Comply	
		Hg	BL	---	Comply	
		Cr(VI)▼	BL	---	Comply	
		PBBs	BL	---	---	
		PBDEs	BL	---	---	
A17	Yellow adhesive plastic (label)	Cd	BL	---	Comply	Feb 29, 2024
		Pb	BL	---	Comply	
		Hg	BL	---	Comply	
		Cr(VI)▼	BL	---	Comply	
		PBBs	BL	---	---	
		PBDEs	BL	---	---	
A18	Blue adhesive plastic (label)	Cd	BL	---	Comply	Feb 29, 2024
		Pb	BL	---	Comply	
		Hg	BL	---	Comply	
		Cr(VI)▼	BL	---	Comply	
		PBBs	BL	---	---	
		PBDEs	BL	---	---	
A19	Black plastic (fixed board)	Cd	BL	---	Comply	Feb 29, 2024
		Pb	BL	---	Comply	
		Hg	BL	---	Comply	
		Cr(VI)▼	BL	---	Comply	
		PBBs	BL	---	---	
		PBDEs	BL	---	---	
A20	Silvery metal (guide vane)	Cd	BL	---	Comply	Feb 29, 2024
		Pb	OL	925114☆▲	Comply	
		Hg	BL	---	Comply	
		Cr(VI)▼	BL	---	Comply	
		PBBs	---	---	---	
		PBDEs	---	---	---	

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Part No.	Part Description	Restricted Substances	Conclusion of EDXRF(1)	Result of Wet Chemical Testing(2) (mg/kg)	Conclusion on ELV	Sample Submitted / Resubmitted Date
A21	Beige fibre (positive plate)	Cd	BL	---	Comply	Feb 29, 2024
		Pb	OL	477060☆▲	Comply	
		Hg	BL	---	Comply	
		Cr(VI)▼	BL	---	Comply	
		PBBs	IN	ND	---	
		PBDEs	IN	ND	---	
A22	Yellow solid (positive plate)	Cd	BL	---	Comply	Feb 29, 2024
		Pb	OL	460749☆▲	Comply	
		Hg	BL	---	Comply	
		Cr(VI)▼	BL	---	Comply	
		PBBs	BL	---	---	
		PBDEs	BL	---	---	
A23	Silvery metal (positive plate)	Cd	BL	---	Comply	Feb 29, 2024
		Pb	OL	926539☆▲	Comply	
		Hg	BL	---	Comply	
		Cr(VI)▼	BL	---	Comply	
		PBBs	---	---	---	
		PBDEs	---	---	---	
A24	Gray plastic (boot)	Cd	BL	---	Comply	Feb 29, 2024
		Pb	OL	3271▲	Comply	
		Hg	BL	---	Comply	
		Cr(VI)▼	BL	---	Comply	
		PBBs	BL	---	---	
		PBDEs	BL	---	---	
A25	Silvery metal (negative plate)	Cd	BL	---	Comply	Feb 29, 2024
		Pb	OL	867694☆▲	Comply	
		Hg	BL	---	Comply	
		Cr(VI)▼	BL	---	Comply	
		PBBs	---	---	---	
		PBDEs	---	---	---	

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Part No.	Part Description	Restricted Substances	Conclusion of EDXRF(1)	Result of Wet Chemical Testing(2) (mg/kg)	Conclusion on ELV	Sample Submitted / Resubmitted Date
A26	Beige solid (negative plate)	Cd	BL	---	Comply	Feb 29, 2024
		Pb	OL	598691☆▲	Comply	
		Hg	BL	---	Comply	
		Cr(VI)▼	BL	---	Comply	
		PBBs	IN	ND	---	
		PBDEs	IN	ND	---	
A27	Beige solid (negative plate)	Cd	BL	---	Comply	Feb 29, 2024
		Pb	OL	352432☆▲	Comply	
		Hg	BL	---	Comply	
		Cr(VI)▼	BL	---	Comply	
		PBBs	BL	---	---	
		PBDEs	BL	---	---	
A28	Silvery metal (guide vane)	Cd	BL	---	Comply	Feb 29, 2024
		Pb	OL	900322☆▲	Comply	
		Hg	BL	---	Comply	
		Cr(VI)▼	BL	---	Comply	
		PBBs	---	---	---	
		PBDEs	---	---	---	
A29	Silvery metal (guide vane)	Cd	BL	---	Comply	Feb 29, 2024
		Pb	OL	921522☆▲	Comply	
		Hg	BL	---	Comply	
		Cr(VI)▼	BL	---	Comply	
		PBBs	---	---	---	
		PBDEs	---	---	---	
A30	Black plastic (shell)	Cd	BL	---	Comply	Feb 29, 2024
		Pb	BL	---	Comply	
		Hg	BL	---	Comply	
		Cr(VI)▼	BL	---	Comply	
		PBBs	BL	---	---	
		PBDEs	BL	---	---	

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Part No.	Part Description	Restricted Substances	Conclusion of EDXRF(1)	Result of Wet Chemical Testing(2) (mg/kg)	Conclusion on ELV	Sample Submitted / Resubmitted Date
A31	Silvery metal (guide vane)	Cd	BL	---	Comply	Feb 29, 2024
		Pb	OL	900563☆▲	Comply	
		Hg	BL	---	Comply	
		Cr(VI)▼	BL	---	Comply	
		PBBs	---	---	---	
		PBDEs	---	---	---	
A32	Transparent liquid	Cd	BL	---	Comply	Feb 29, 2024
		Pb	BL	---	Comply	
		Hg	BL	---	Comply	
		Cr(VI)▼	BL	---	Comply	
		PBBs	BL	---	---	
		PBDEs	BL	---	---	

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REACH
test report

Test Report

No.: SHAAUTO24004367401_1 **Date:** Apr 01, 2024

Client Name: CLARIOS (SHANGHAI) COMPANY MANAGEMENT CO., LTD.

Client Address: 700-800 Kangiao Road,Pudong

Sample Name:	SLI D31 leda-acid battery
Product Specification:	12V/80Ah
Manufacturer:	Clarios(Chongqing) Power Solutions Co., Ltd.
Manufacturer Address:	1 Long Xiang Road Fuling,ChongQing
Part No:	6-QW-80(600)
Client Ref Infer:	Quantity:3

The above sample(s) and information were provided by the client.

THIS REPORT IS TO SUPERSEDE TEST REPORT NO.SHAAUTO24004367401, DATE: Mar 29, 2024.

SGS Job No.:	SHAT2402002738DW-3
Sample Receiving Date:	Mar 12, 2024
Testing Period:	Mar 12, 2024 ~ Mar 29, 2024
Test Requested:	Select test(s) as requested by the client.
Test Method(s):	Please refer to next page(s).
Test Result(s):	Please refer to next page(s).

Test Requirement	Conclusion
Entry 6 of Regulation (EU) 2016/1005 amending Annex XVII of REACH Regulation (EC) No 1907/2006 -Asbestos	Pass
Entry 20 of Regulation (EC) No 276/2010 amending Annex XVII of REACH Regulation (EC) No 1907/2006 - Organostannic compounds	Pass
Entry 51 of Regulation (EU) 2018/2005 amending Annex XVII of REACH Regulation (EC) No 1907/2006 - Phthalate	Pass
Entry 68 of Regulation (EU) 2021/1297 amending Annex XVII of REACH Regulation (EC) No 1907/2006 - C9-C14 PFCAs, their salts and C9-C14 PFCA-related substances	Pass

Signed for and on behalf of
SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd.

Dany Shen
Approved Signatory

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EU2023/1542 ANNEX I
test report

Test Report

No.: SHAAUTO24003555803 **Date:** Apr 01, 2024

Client Name: CLARIOS (SHANGHAI) COMPANY MANAGEMENT CO., LTD.

Client Address: 700-800 Kangiao Road,Pudong

Sample Name:	SLI D31 lead-acid battery
Product Specification:	12V/80Ah
Manufacturer:	Clarios(Chongqing) Power Solutions Co., Ltd.
Manufacturer Address:	1 Long Xiang Road Fuling,ChongQing
Part No:	6-QW-80(600)
Client Ref Infer:	Quantity:3

The above sample(s) and information were provided by the client.

SGS Job No.:	SHAT2402002738DW-3
Sample Receiving Date:	Mar 01, 2024
Testing Period:	Mar 01, 2024 ~ Mar 29, 2024
Test Requested:	Select test(s) as requested by the client.
Test Method(s):	Please refer to next page(s).
Test Result(s):	Please refer to next page(s).

Test Requirement	Conclusion
Annex I of Regulation (EU) 2023/1542– Heavy Metals Content in batteries and waste batteries	PASS(See Notes 2)

Signed for and on behalf of
SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd.

Dany Shen
Approved Signatory

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Test Result(s):

Test Part Description:

SN ID	Sample No.	SGS Sample ID	Description
SN1	A	SHA24-0035558-0001	SLI D31 lead-acid battery

Remarks:

(1) 1 mg/kg = 1 ppm = 0.0001%
(2) MDL = Method Detection Limit
(3) ND = Not Detected (< MDL)
(4) "-" = Not Regulated

Annex I of Regulation (EU) 2023/1542– Heavy Metals Content in batteries and waste batteries

Test Method: SGS In House Method, analysis was performed by AAS or Hg-analyzer.

Test Item(s)	Limit	Unit(s)	MDL	A
Lead(Pb)	-	%	0.0010	68.8909
Cadmium(Cd)	-	%	0.0010	ND
Mercury(Hg)	0.0005	%	0.0001	ND
Conclusion				**PASS(See Notes 2)**

Notes:

(1) Restriction on substances

Column 1 Designation of the substance or group of substances	Column 2 Conditions of restriction
1. Mercury CAS No 7439-97-6 EC No 231-106-7 and its compounds	Batteries, whether or not incorporated into appliances, light means of transport or other vehicles, shall not contain more than 0,0005 % of mercury (expressed as mercury metal) by weight
2. Cadmium CAS No 7440-43-9 EC No 231-152-8 and its compounds	Portable batteries, whether or not incorporated into appliances, light means of transport or other vehicles, shall not contain more than 0,002 % of cadmium (expressed as cadmium metal) by weight
3. Lead CAS No 7439-92-1 EC No 231-100-4 and its compounds	1. From 18 August 2024, portable batteries, whether or not incorporated into appliances, shall not contain more than 0,01 % of lead (expressed as lead metal) by weight. 2. The restriction set out in point 1 shall not apply to portable zinc-air button cells until 18 August 2028.

(2) According to the EU New Battery Regulation (EU) 2023/1542, non portable batteries containing more than 0,002 % cadmium or more than 0,004 % lead, shall be marked with the chemical symbol for the metal concerned: Cd or Pb.

Unless otherwise stated, the decision rule for conformity reporting is based on Binary Statement for Simple Acceptance Rule (*w*=0) stated in ILAC-G8:09/2019.

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