Technical documentation

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

1 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:	1277180
Customer part number:	6-QW-60(580)-L
Voltage:	12 V
Capacity:	60 An
Cold cranking current:	580 A
Size:	H5

2 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

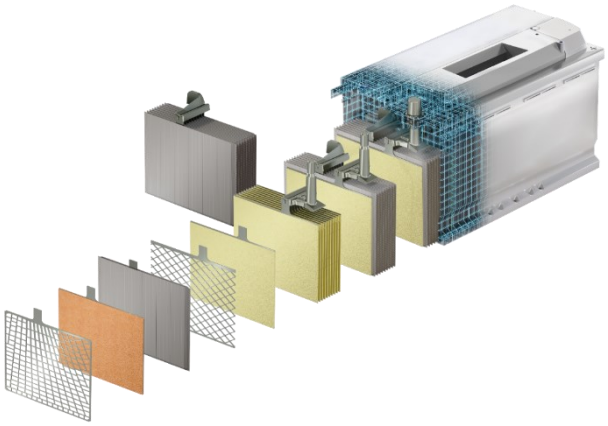

Figure 1 - Conceptual design of a typical lead battery

[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

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

Not applicable

4 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)

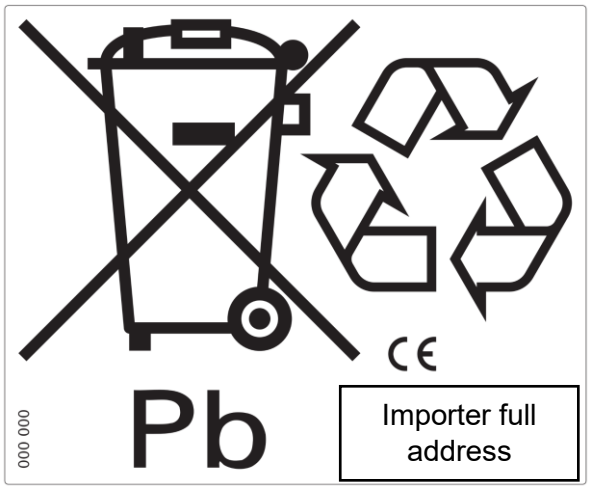

Figure 2 – Example of marking with symbol for separate collection according to Annex VI Part B and with the chemical symbol “Pb” for the heavy metal Pb content according to Article 13 (3).

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

Not applicable

6 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 with Mercury content threshold is guaranteed by material specifications.

b) Article 13 (Labelling and marking of batteries)

An example of the required label is shown in section 4.

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 ChangXing Plant's SLI/EFB Products

We hereby submit the SLI/EFB battery parts from all batches from the ChangXing 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 H4 (SAP PN: 1490942, Customer PN: 24410 1695R)** 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	1241079	75Ah/675A/LN3(H6)	10001618	SHAAUTO24004375201	SHAAUTO24004999801	SHAAUTO24004377901
2	1464666	45Ah/550A/B24	65B24LS			
3	1356835	60Ah/580A/LN2(H5)	6-QW-60(580)-L			
4	1356834	36Ah/310A/B20	6-QW-36(310)-LT1			
5	1356832	72Ah/700A/LN2(H6)	6-QW-72(700)-L			
6	1356802	160Ah/750A/G31	31-750T			
7	1356836	100Ah/720A/LN5(H8)	6-QW-100(720)-L			
8	1490913	110Ah/920A/LN6(H9)	H9-110-L-T2-H			
9	1244661	120Ah/850A/E41	6-QW-120(850)-B			
10	1244662	160Ah/750A/G31	31-750B			
11	1244599	165Ah/950A/G31	31-950T			
12	1244660	120Ah/850A/E41	6-QW-120(850)-T			
13	1277173	75Ah/650A/D26R	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	1389965	100Ah/680A/E41(N100)	6-QW-100(680)			
17	1493655	100Ah/680A/E41(N100)	6-QW-100(680)			
18	1493654	120Ah/850A/E41(N100)	6-QW-120(850)-T			
19	1503031	45Ah/286A/ LN1(H4)	28800-0Z030			
20	1493654	120Ah/850A/E41	6-QW-120(850)-T			
21	1493655	100Ah/680A/E41	6-QW-100(680)			
22	1244599	165min/950A/G31	31-950T			
23	1244660	120Ah/850A/E41	6-QW-120(850)-T			
24	1244662	160min/750A/G31	31-750B			
25	1389965	100Ah/680A/E41	6-QW-100(680)			
26	1277157	36Ah/310A/B24	6-QW-36(310)-LT1			

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

CLARIOS

27	1277160	45Ah/380A/B24	6-QW-45(380)-L	**SHAAUTO24004375201**	**SHAAUTO24004999801**	**SHAAUTO24004377901**
28	1277161	65Ah/550A/D23	6-QW-65(550)-L			
29	1277173	75Ah/650A/D26	6-QW-75(650)			
30	1277180	60Ah/580A/LN2(H5)	6-QW-60(580)-L			
31	1277181	60Ah/580A/LN2(H5)	6-QW-60(580)-L			
32	1391692	36Ah/310A/B19	6-QW-36(310)-LT1			

Clarios (Shanghai) Company Management Co., Ltd.
柯锐世(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 H4 lead-acid battery
Product Specification:	12V/50Ah
Manufacturer:	Clarios(Changxing) Power Solutions Co., Ltd.
Manufacturer Address:	No.1,Chengnan Industrial Zone,Economic Development Zone,Changxing County,Zhejiang Province
Part No:	24410 1695R
Client Ref Infer:	Quantity:3

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

SGS Job No.:	SHAT2402002738DW-2
Sample Receiving Date:	Mar 12, 2024
Testing Period:	Mar 12, 2024 ~ Mar 27, 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.

Tony Xu

Tony Xu
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 adhesive plastic (label)	Cd	BL	---	Comply	Mar 12, 2024
		Pb	BL	---	Comply	
		Hg	BL	---	Comply	
		Cr(VI)▼	BL	---	Comply	
		PBBs	BL	---	---	
		PBDEs	BL	---	---	
A2	Black/White adhesive plastic (label)	Cd	BL	---	Comply	Mar 12, 2024
		Pb	IN	ND	Comply	
		Hg	BL	---	Comply	
		Cr(VI)▼	BL	---	Comply	
		PBBs	BL	---	---	
		PBDEs	BL	---	---	
A3	Orange adhesive plastic (label)	Cd	BL	---	Comply	Mar 12, 2024
		Pb	BL	---	Comply	
		Hg	BL	---	Comply	
		Cr(VI)▼	BL	---	Comply	
		PBBs	BL	---	---	
		PBDEs	BL	---	---	
A4	Red adhesive plastic (label)	Cd	BL	---	Comply	Mar 12, 2024
		Pb	BL	---	Comply	
		Hg	BL	---	Comply	
		Cr(VI)▼	BL	---	Comply	
		PBBs	BL	---	---	
		PBDEs	BL	---	---	
A5	Blue adhesive plastic (label)	Cd	BL	---	Comply	Mar 12, 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	Yellow adhesive plastic (label)	Cd	BL	---	Comply	Mar 12, 2024
		Pb	BL	---	Comply	
		Hg	BL	---	Comply	
		Cr(VI)▼	BL	---	Comply	
		PBBs	BL	---	---	
		PBDEs	BL	---	---	
A7	White adhesive plastic (label)	Cd	BL	---	Comply	Mar 12, 2024
		Pb	BL	---	Comply	
		Hg	BL	---	Comply	
		Cr(VI)▼	BL	---	Comply	
		PBBs	BL	---	---	
		PBDEs	BL	---	---	
A8	Black/White adhesive plastic (label)	Cd	BL	---	Comply	Mar 12, 2024
		Pb	BL	---	Comply	
		Hg	BL	---	Comply	
		Cr(VI)▼	BL	---	Comply	
		PBBs	BL	---	---	
		PBDEs	BL	---	---	
A9	White plastic (fixed block)	Cd	BL	---	Comply	Mar 12, 2024
		Pb	BL	---	Comply	
		Hg	BL	---	Comply	
		Cr(VI)▼	BL	---	Comply	
		PBBs	BL	---	---	
		PBDEs	BL	---	---	
A10	Silvery metal (guide vane)	Cd	BL	---	Comply	Mar 12, 2024
		Pb	OL	860978☆▲	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
A11	Silvery metal (guide vane)	Cd	BL	---	Comply	Mar 12, 2024
		Pb	OL	876227☆▲	Comply	
		Hg	BL	---	Comply	
		Cr(VI)▼	BL	---	Comply	
		PBBs	---	---	---	
		PBDEs	---	---	---	
A12	Black plastic (upper shell)	Cd	BL	---	Comply	Mar 12, 2024
		Pb	BL	---	Comply	
		Hg	BL	---	Comply	
		Cr(VI)▼	BL	---	Comply	
		PBBs	BL	---	---	
		PBDEs	BL	---	---	
A13	Black plastic (upper shell)	Cd	BL	---	Comply	Mar 12, 2024
		Pb	BL	---	Comply	
		Hg	BL	---	Comply	
		Cr(VI)▼	BL	---	Comply	
		PBBs	BL	---	---	
		PBDEs	BL	---	---	
A14	Black plastic (bottom shell)	Cd	BL	---	Comply	Mar 12, 2024
		Pb	BL	---	Comply	
		Hg	BL	---	Comply	
		Cr(VI)▼	BL	---	Comply	
		PBBs	BL	---	---	
		PBDEs	BL	---	---	
A15	White adhesive plastic (label)	Cd	BL	---	Comply	Mar 12, 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	Mar 12, 2024
		Pb	BL	---	Comply	
		Hg	BL	---	Comply	
		Cr(VI)▼	BL	---	Comply	
		PBBs	BL	---	---	
		PBDEs	BL	---	---	
A17	Black plastic (fixed block)	Cd	BL	---	Comply	Mar 12, 2024
		Pb	BL	---	Comply	
		Hg	BL	---	Comply	
		Cr(VI)▼	BL	---	Comply	
		PBBs	BL	---	---	
		PBDEs	BL	---	---	
A18	White rubber (washer)	Cd	BL	---	Comply	Mar 12, 2024
		Pb	BL	---	Comply	
		Hg	BL	---	Comply	
		Cr(VI)▼	BL	---	Comply	
		PBBs	BL	---	---	
		PBDEs	BL	---	---	
A19	White plastic (fixed piece)	Cd	BL	---	Comply	Mar 12, 2024
		Pb	BL	---	Comply	
		Hg	BL	---	Comply	
		Cr(VI)▼	BL	---	Comply	
		PBBs	BL	---	---	
		PBDEs	BL	---	---	
A20	Silvery metal (guide vane)	Cd	BL	---	Comply	Mar 12, 2024
		Pb	OL	905505☆▲	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	Silvery metal (guide vane)	Cd	BL	---	Comply	Mar 12, 2024
		Pb	OL	894358☆▲	Comply	
		Hg	BL	---	Comply	
		Cr(VI)▼	BL	---	Comply	
		PBBs	---	---	---	
		PBDEs	---	---	---	
A22	Gray plastic (boot)	Cd	BL	---	Comply	Mar 12, 2024
		Pb	IN	2812▲	Comply	
		Hg	BL	---	Comply	
		Cr(VI)▼	BL	---	Comply	
		PBBs	BL	---	---	
		PBDEs	BL	---	---	
A23	Beige solid (fixed piece)	Cd	BL	---	Comply	Mar 12, 2024
		Pb	OL	556024☆▲	Comply	
		Hg	BL	---	Comply	
		Cr(VI)▼	BL	---	Comply	
		PBBs	BL	---	---	
		PBDEs	BL	---	---	
A24	Yellow solid (filling)	Cd	BL	---	Comply	Mar 12, 2024
		Pb	OL	650438☆▲	Comply	
		Hg	BL	---	Comply	
		Cr(VI)▼	BL	---	Comply	
		PBBs	BL	---	---	
		PBDEs	BL	---	---	
A25	Silvery metal (guide vane)	Cd	BL	---	Comply	Mar 12, 2024
		Pb	OL	908647☆▲	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 plastic (fixed piece)	Cd	BL	---	Comply	Mar 12, 2024
		Pb	OL	622674☆▲	Comply	
		Hg	BL	---	Comply	
		Cr(VI)▼	BL	---	Comply	
		PBBs	BL	---	---	
		PBDEs	BL	---	---	
A27	Beige plastic (filling)	Cd	BL	---	Comply	Mar 12, 2024
		Pb	OL	322873☆▲	Comply	
		Hg	BL	---	Comply	
		Cr(VI)▼	BL	---	Comply	
		PBBs	BL	---	---	
		PBDEs	BL	---	---	
A28	Silvery metal (guide vane)	Cd	BL	---	Comply	Mar 12, 2024
		Pb	OL	938829☆▲	Comply	
		Hg	BL	---	Comply	
		Cr(VI)▼	BL	---	Comply	
		PBBs	---	---	---	
		PBDEs	---	---	---	
A29	Transparent liquid	Cd	BL	---	Comply	Mar 12, 2024
		Pb	BL	---	Comply	
		Hg	BL	---	Comply	
		Cr(VI)▼	BL	---	Comply	
		PBBs	BL	---	---	
		PBDEs	BL	---	---	

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REACH
test report

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

Client Address: 700-800 Kangiao Road,Pudong

Sample Name:	SLI H4 leda-acid battery
Product Specification:	12V/50Ah
Manufacturer:	Clarios(Changxing) Power Solutions Co., Ltd.
Manufacturer Address:	No.1,Chengnan Industrial Zone,Economic Development Zone,Changxing County,Zhejiang Province
Part No:	24410 1695R
Client Ref Infer:	Quantity:3

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

SGS Job No.:	SHAT2402002738DW-2
Sample Receiving Date:	Mar 19, 2024
Testing Period:	Mar 19, 2024 ~ Mar 27, 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.

Eva Wang

Eva Wang
Approved Signatory

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EU2023/1542 ANNEX I
test report

Test Report

No.: SHAAUTO24004377901 **Date:** Mar 21, 2024

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

Client Address: 700-800 Kangiao Road,Pudong

Sample Name:	SLI H4 lead-acid battery
Product Specification:	12V/50Ah
Manufacturer:	Clarios(Changxing) Power Solutions Co., Ltd.
Manufacturer Address:	No.1,Chengnan Industrial Zone,Economic Development Zone,Changxing County,Zhejiang Province
Part No:	24410 1695R
Client Ref Infer:	Quantity:3

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

SGS Job No.:	SHAT2402002738DW-2
Sample Receiving Date:	Mar 12, 2024
Testing Period:	Mar 12, 2024 ~ Mar 21, 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).

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

Eva Wang

Eva Wang
Approved Signatory

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Member of the SGS Group (SGS SA)

Test Result(s):

Test Part Description:

SN ID	Sample No.	SGS Sample ID	Description
SN1	A	SHA24-0043779-0001	SLI H4 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 and Hg-analyzer.

Test Item(s)	Limit	Unit(s)	MDL	A
Lead(Pb)	-	%	0.0010	87.2014
Cadmium(Cd)	0.002	%	0.0010	ND
Mercury(Hg)	0.0005	%	0.0001	ND
Conclusion				**Pass**

Notes:

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.

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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