

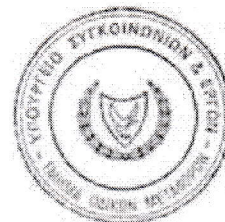


COMMUNICATION

e49

concerning: ⁽⁴⁾

APPROVAL GRANTED
APPROVAL EXTENDED
APPROVAL REFUSED
APPROVAL WITHDRAWN
PRODUCTION DEFINITELY DISCONTINUED



- ~~EU WHOLE VEHICLE TYPE APPROVAL IN ACCORDANCE WITH REGULATION (EU) 2018/858~~ ⁽⁴⁾
- ~~EU WHOLE VEHICLE TYPE APPROVAL WITH EXEMPTIONS FOR NEW TECHNOLOGIES OR CONCEPTS IN ACCORDANCE WITH ARTICLE 39(2) OF REGULATION (EU) 2018/858 AUTHORISED BY THE COMMISSION IN ACCORDANCE WITH ARTICLE 39(3) THEREOF~~ ⁽⁴⁾
- ~~PROVISIONAL EU WHOLE VEHICLE TYPE APPROVAL WITH EXEMPTIONS FOR NEW TECHNOLOGIES OR CONCEPTS IN ACCORDANCE WITH ARTICLE 39(2) OF REGULATION (EU) 2018/858 PENDING ON THE AUTHORISATION BY THE COMMISSION IN ACCORDANCE WITH ARTICLE 39(4) THEREOF. THE VALIDITY OF THE EU TYPE APPROVAL IS THUS LIMITED TO DD/MM/YYYY~~ ⁽⁴⁾
- ~~EU TYPE APPROVAL OF VEHICLES PRODUCED IN SMALL SERIES IN ACCORDANCE WITH ARTICLE 41 OF REGULATION (EU) 2018/858~~ ⁽⁴⁾
- ~~NATIONAL TYPE APPROVAL OF VEHICLES PRODUCED IN SMALL SERIES IN ACCORDANCE WITH ARTICLE 42 OF REGULATION (EU) 2018/858~~ ⁽⁴⁾

OF A TYPE OF:

- ~~COMPLETE VEHICLE~~ ⁽⁴⁾
- ~~COMPLETED VEHICLE~~ ⁽⁴⁾
- ~~INCOMPLETE VEHICLE~~ ⁽⁴⁾
- ~~VEHICLE WITH COMPLETE AND INCOMPLETE VARIANTS~~ ⁽⁴⁾
- ~~VEHICLE WITH COMPLETED AND INCOMPLETE VARIANTS~~ ⁽⁴⁾

EC type approval No: **e49*KS18/858*10043*00**

Reason(s) for ~~extension/refusal/withdrawal~~ ⁽⁴⁾: Not applicable



SECTION I

- 0.1. Make (trade name of manufacturer): : FOTON
- 0.2. Type: : P3
- 0.2.1. Commercial name(s) ⁽¹⁰⁵⁾: : TUNLAND , TUNLAND G7 , G7
- 0.3. Means of identification of type, if marked on the vehicle: : VIN
- 0.3.1. Location of that marking: : - Stamped on the exterior surface of chassis side member, close to the right hand
- Statutory plate pasted on the right wall panel of the cab by glue
- 0.4. Category of vehicle ⁽³⁾: : N1
- 0.5. Company name and address of manufacturer of the incomplete/complete/completed vehicle ⁽⁴⁾ : Beiqi Foton Motor Co., Ltd.
North of Laoniawan Village, Shayang Road
Shahe Town, Changping District
Beijing 102206
China(PRC)
- 0.5.1. For multi-stage approved vehicles, company name and address of the manufacturer of the base/previous stage(s) vehicle : Not applicable
- 0.8. Name(s) and address(es) of assembly plant(s): : Shandong Multifunction Plant, BEIQI FOTON MOTOR Co., Ltd.
West of Gaoliu Road and North of Yingqian Street, Gaoxin District, Weifang City
261061 Shandong Province China (PRC)
- 0.9. Name and address of the manufacturer's representative (if any): : BROCK Kehrtechnik GmbH
Arnoldschacht 14, 44894 Bochum, Germany
Manfred.Lenhart@ brock-kehrtechnik. de



SECTION II

1. Technical service responsible for carrying out the tests ⁽¹⁰⁶⁾: : CETOC Technical Service srl
Via della Bufalotta, 374, 00139 Roma
2. Date of test report: : 28/07/2023
3. Number of test report: : IT-7-35-23-WHO22-04596-IR

The undersigned hereby certifies the accuracy of the manufacturer's description in the attached information document of the vehicle(s) described above, ((a) sample(s) having been selected by the EU type-approval authority and submitted by the manufacturer as prototype(s) of the vehicle type), and that the attached test results are applicable to the vehicle type.

1. For complete and ~~completed~~ vehicles/variants ⁽⁴⁾ :

The vehicle type meets/~~does not meet~~ ⁽⁴⁾ the technical requirements of all the relevant regulatory acts referred to in Annex II to Regulation (EU) 2018/858.

2. For incomplete vehicles/variants ⁽⁴⁾: : Not applicable

The vehicle type meets/~~does not meet~~ ⁽⁴⁾ the technical requirements of the regulatory acts listed in the table in part 2 of this certificate

Place : Nicosia, Cyprus

Date : 09 August 2023

Signature :

Iosif Miltiadous
(Road Transport Officer)



Attachments:

- Information package.
- Test results sheet in accordance with the template set out in Annex VI of this Regulation.
- Name(s) and specimen(s) of the signature(s) of the person(s) authorised to sign certificates of conformity and a statement of their position in the company.
- File containing the information referred to in paragraph 2 of Article 39 of Regulation (EU) 2018/858 ⁽⁴⁾



PART 2

This EU type-approval is, where incomplete and completed vehicles, variants or versions are concerned, based on the approval(s) for incomplete vehicles listed below:

- Stage 1 Manufacturer of the base vehicle : Not applicable
Number of the EU type-approval certificate : Not applicable
Dated : Not applicable
Applicable to variants or versions (as appropriate) : Not applicable
- Stage 2 Manufacturer of the base vehicle : Not applicable
Number of the EU type-approval certificate : Not applicable
Dated : Not applicable
Applicable to variants or versions (as appropriate) : Not applicable
- Stage 3 Manufacturer of the base vehicle : Not applicable
Number of the EU type-approval certificate : Not applicable
Dated : Not applicable
Applicable to variants or versions (as appropriate) : Not applicable

In the case where the approval includes one or more incomplete variants or versions (as appropriate), list those variants or versions (as appropriate) which are complete or completed.
Complete/completed variant(s) : Not applicable

List of requirements applicable to the approved incomplete vehicle type, variant or version (as appropriate, taking account of the scope and latest amendment to each of the regulatory acts listed below). Not applicable

Item	Subject	Regulatory act reference	Last amended	Applicable to variant or, if need be, to version
--	--	--	--	--

(List only subjects for which an EU type-approval exists.)



In the case of special purpose vehicles, exemptions granted or special provisions applied pursuant to Part III of Annex II to Regulation (EU) 2018/858, exemptions granted pursuant to Article 39 of Regulation (EU) 2018/858, and exemptions granted pursuant to Article 42 of Regulation (EU) 2018/858: Not applicable

Item	Subject	Regulatory act reference	Kind of approval and nature of exemption	Applicable to variant or, if need be, to version
--	--	--	--	--

- (3) Classified according to the definitions set out in Part A of Annex I to Regulation (EU) 2018/858.
- (4) Delete where not applicable (there are cases where nothing needs to be deleted when more than one entry is applicable).
- (105) If not available at the time of granting the type-approval, this item shall be completed at the latest when the vehicle is introduced on the market.
- (106) Please fill in "not applicable" in the case of a step-by-step type-approval, where the approval authority collect the whole set of EU type-approval certificates or UN type-approval certificates, and that authority edited the final whole vehicle type-approval certificate.
- (107) In accordance with Annex II to Regulation (EU) 2018/858.
- (108) Or visual representation of an 'advanced electronic signature' in accordance with Regulation (EU) No 910/2014 of the European Parliament and of the Council of 23 July 2014 on electronic identification and trust services for electronic transactions in the internal market and repealing Directive 1999/93/EC (OJ L 257, 28.8.2014, p. 73), including data for verification.



APPENDIX

List of regulatory acts to which the type of vehicle complies
(to be filled in only in the case of a whole-vehicle type-approval in accordance with Article 22(1)(b) and (c)
of Regulation (EU) 2018/858).

Item	Subject ⁽¹⁰⁷⁾	Regulatory act reference ⁽¹⁰⁷⁾	As amended by	Applicable to variant or, if need be, to version
--	--	--	--	--

(107) In accordance with Annex II to Regulation (EU) 2018/858.





TEST RESULTS SHEET

(To be completed by the type-approval authority and attached to the whole-vehicle EU type-approval certificate referred to in Article 28 of Regulation (EU) 2018/858)

Please indicate clearly to which variant and version of the vehicle the test result applies. Each version shall not have more than one test result. In the case of several test results per version indicating the worst test result, a note shall state that for items marked (*) the worst test results are provided.

1. Results of the sound level tests

Please provide the number of the regulatory act laying down the applicable requirements and the number of its latest amendment. Where the regulatory act provides for two or more implementation stages, please also indicate the implementation stage:

715/2007 and 2017/1151, as amended by Regulation (EU) 2023/443 EA (euro 6e)

Variant/Version of the vehicle:	EcDb - E1P1NaBpG1	EcDa - E1P1NbBpG2 EcDb - E1P1NbBpG2
Base regulatory:	UNECE R51	UNECE R51
Latest amending regulatory:	UNECE R51.03	UNECE R51.03
Moving (dB(A)/E):	71	73
Stationary (dB(A)/E):	74,8	79
at (min ⁻¹):	3000	3000

2. Results of the exhaust emission tests: Not applicable

2.1. Emissions from motor vehicles tested under the test procedure for light-duty vehicles

Please provide the number of the regulatory act laying down the applicable requirements or, where amended, the number of its latest amendment. Where the regulatory act provides for two or more implementation stages, please also indicate the implementation stage:

Fuel(s) ⁽¹²⁸⁾... (diesel, petrol, LPG, NG, Bi-fuel: petrol/NG, LPG, NG/biomethane, Flex-fuel: petrol/ethanol...) ^{(4), (129)}



2.1.1. Type 1 test ⁽¹³⁰⁾ ⁽¹³¹⁾, (vehicle emissions in the test cycle after a cold start)

NEDC average values, WLTP highest values			
Variant/Version of the vehicle:	EcDb / E1P1NaBpG1	EcDa - E1P1NbBpG2	EcDb - E1P1NbBpG2
CO (mg/km)	91,031	117,48	124,42
THC (mg/km)	--	--	--
NMHC (mg/km)	--	--	--
NO _x (mg/km)	71,749	49,00	36,97
THC + NO _x (mg/km)	104,858	99,72	92,89
Mass of particulate matter (PM) (mg/km) (if applicable)	0,101	1,58	0,27
Number of particles (PN) (#/km) (if applicable)	2,7x10 ⁹	0,01 x10 ¹¹	0,34x10 ¹¹

Family correction factors	
ATCT Family	FCF
AT-2037Y3MAV_6DZA-LVA-1	1,0300
AT-2037Y3MAV_F8ZA-LVA-1	1.0492



2.1.2. Type 2 test ⁽¹³⁰⁾ ⁽¹³¹⁾, (emissions data required at type-approval for roadworthiness purposes)

Type 2, low idle test:			
Variant/Version of the vehicle:	EcDb / E1P1NaBpG1 EcDa - E1P1NbBpG2 EcDb - E1P1NbBpG2		
CO (% vol.)	--		
Lambda Value	--		
Engine speed (min ⁻¹)	--		
Engine oil temperature (°C)	--		

Type 2, high idle test:			
Variant/Version of the vehicle:	EcDb / E1P1NaBpG1 EcDa - E1P1NbBpG2 EcDb - E1P1NbBpG2		
CO (% vol.)	--	--	
Lambda Value	--	--	
Engine speed (min ⁻¹)	--	--	
Engine oil temperature (°C)	--	--	

- 2.1.3. Type 3 test (emissions of crankcase gases): : - kPa
- 2.1.4. Type 4 test (evaporative emissions): : - g/test
- 2.1.5. Type 5 test (durability of anti-pollution control devices)
: :
- Ageing distance covered (km)
(e.g. 160000 km): : 160.000
- Deterioration factor DF: : calculated/fixe⁽⁴⁾
- Values :

Variant/Version of the vehicle:	EcDb / E1P1NaBpG1	EcDa - E1P1NbBpG2	EcDb - E1P1NbBpG2
CO	3,8625	3,8625	3,8625
THC	2,8263	2,8263	2,8263
NMHC	4,2143	4,2143	4,2143
NO _x	1,3433	1,3433	1,3433
THC + NO _x	1,8716	1,8716	1,8716
Mass of particulate matter (PM) (if applicable)	1,0000	1,0000	1,0000
Number of particles (PN) (if applicable)	1,0000	1,0000	1,0000



2.1.6. Type 6 test (average emissions at low ambient temperatures):

Variant/Version of the vehicle:	EcDb / E1P1NaBpG1 EcDa - E1P1NbBpG2 EcDb - E1P1NbBpG2		
CO (g/km)	--	--	
THC (g/km)	--	--	

2.1.7. OBD : yes/~~no~~⁽⁴⁾

2.2. Emissions from engines tested under the test procedure for heavy-duty vehicles.

Please provide the number of the regulatory act laying down the applicable requirements or, where amended, the number of its latest amendment. Where the regulatory act provides for two or more implementation stages, please also indicate the implementation stage:

715/2007 and 2017/1151, as amended by Regulation (EU) 2023/443 EA (euro 6e)

Fuel(s)⁽¹²⁸⁾ ... (diesel, petrol, LPG, NG, ethanol...) : Diesel

2.2.1. Results of the ESC test⁽¹³²⁾⁽¹³³⁾⁽¹³⁴⁾ : Not applicable

Variant/Version of the vehicle:	--		
CO (mg/kWh)	--		
THC (mg/kWh)	--		
NO _x (mg/kWh)	--		
NH ₃ (ppm) ⁽¹³²⁾	--		
PM mass (mg/kWh)	--		
PM number (#/kWh) ⁽¹³²⁾	--		

2.2.2. Result of the ELR test⁽¹³²⁾ : Not applicable

Variant/Version of the vehicle:	--		
Smoke value: m ⁻¹	--		

2.2.3. Result of the ETC test⁽¹³³⁾⁽¹³⁴⁾ : Not applicable

Variant/Version of the vehicle:	• --	•	•
CO (mg/kWh)	--		
THC (mg/kWh)	--		
NMHC (mg/kWh) ⁽¹³²⁾	--		
CH ₄ (mg/kWh) ⁽¹³²⁾	--		



NO _x (mg/kWh)	--		
NH ₃ (ppm) ⁽¹³²⁾	--		
PM mass (mg/kWh)	--		
PM number (#/kWh) ⁽¹³²⁾	--		

2.2.4. Idle test ⁽¹³²⁾ Not applicable

Variant/Version of the vehicle:	--		
CO (% vol.)	--		
Lambda Value ⁽¹³²⁾	--		
Engine speed (min ⁻¹)	--		
Engine oil temperature (K)	--		

2.3. Diesel smoke :

Please provide the number of the regulatory act laying down the applicable requirements or, where amended, the number of its latest amendment. Where the regulatory act provides for two or more implementation stages, please also indicate the implementation stage:
715/2007 and 2017/1151, as amended by Regulation (EU) 2023/443EA (euro 6e)

2.3.1. Results of the test under free acceleration :

Variant/Version of the vehicle:	EcDb / E1P1NaBpG1	EcDa - E1P1NbBpG2 EcDb - E1P1NbBpG2	
Corrected value of the absorption coefficient (m ⁻¹)	0,54	0,13	
Normal engine idling speed	750	750	
Maximum engine speed	--	--	
Oil temperature (min./max.)	--	--	

3. Results of the CO₂ emission, fuel/electric energy consumption, and electric range tests

Please provide the number of the regulatory act laying down the applicable requirements or, where amended, the number of its latest amendment.
715/2007 and 2017/1151, as amended by Regulation (EU) 2023/443EA (euro 6e)

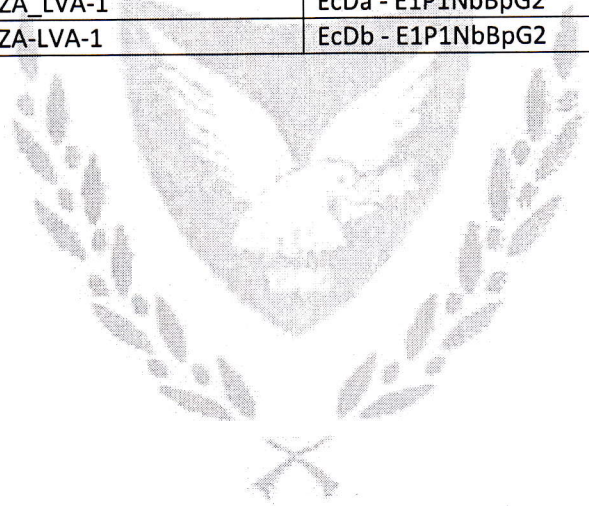
3.1. Internal combustion engines, including not externally chargeable hybrid electric vehicles (NOVC) (132) (135)

Variant/Version of the vehicle:	EcDb / E1P1NaBpG1	EcDa - E1P1NbBpG2 EcDb - E1P1NbBpG2	
CO ₂ mass emission (urban conditions) (g/km)	--	--	
CO ₂ mass emission (extra-urban)	--	--	



conditions) (g/km)			
CO ₂ mass emission (combined) (g/km)	--	--	
Fuel consumption (urban conditions) (1/100km) ⁽¹³⁶⁾	--	--	
Fuel consumption (extra-urban conditions) (1/100km) ⁽¹³⁶⁾	--	--	
Fuel consumption (combined) (1/100km) ⁽¹³⁶⁾	--	--	

Interpolation family identifier ⁽¹³⁷⁾	Variant/versions
IP-2037Y3MAV_6DZA_LVA-1	EcDb / E1P1NaBpG1
IP-1037V3MA6_F8ZA_LVA-1	EcDa - E1P1NbBpG2
IP-2037Y3MAV_F8ZA-LVA-1	EcDb - E1P1NbBpG2





Results:	Interpolation family identifier IP-2037Y3MAV_6DZA_LVA-1		
	VH	VM ⁽¹³²⁾	VL ⁽¹³²⁾
CO ₂ mass emission LOW phase (g/km)	274,986		
CO ₂ mass emission MID phase (g/km)	219,249		
CO ₂ mass emission HIGH phase (g/km)	203,832		
CO ₂ mass emission EXTRA-HIGH phase (g/km)	256,131		
CO ₂ mass emission (combined) (g/km)	235,000		
Fuel consumption LOW phase (l/100km m ³ /100km kg/100km)	9,93		
Fuel consumption MID phase (l/100km m ³ /100km kg/100km)	7,92		
Fuel consumption HIGH phase (l/100km m ³ /100km kg/100km)	7,36		
Fuel consumption EXTRA-HIGH phase (l/100km m ³ /100km kg/100km)	9,25		
Fuel consumption (combined) (l/100km m ³ /100km kg/100km)	8,49		
f ₀ (N)	269,9		
f ₁ (N/(km/h))	1,2998		
f ₂ (N/(km/h) ⁽²⁾)	0,0571		
RR (kg/t)	--		
Delta C _D * A (for VL if applicable compared to VH) (m ²)	--		
Test Mass (kg)	2350		
Frontal area (m ²) (for road load matrix family vehicles only)	--		

Repeat for each interpolation family.



Results:	Interpolation family identifier IP-1037V3MA6_F8ZA_LVA-1		
	VH	VM ⁽¹³²⁾	VL ⁽¹³²⁾
CO ₂ mass emission LOW phase (g/km)	288.60		
CO ₂ mass emission MID phase (g/km)	235.80		
CO ₂ mass emission HIGH phase (g/km)	229.20		
CO ₂ mass emission EXTRA-HIGH phase (g/km)	301.31		
CO ₂ mass emission (combined) (g/km)	264.00		
Fuel consumption LOW phase (l/100km m ³ /100km kg/100km)	10,0		
Fuel consumption MID phase (l/100km m ³ /100km kg/100km)	9,9		
Fuel consumption HIGH phase (l/100km m ³ /100km kg/100km)	9,9		
Fuel consumption EXTRA-HIGH phase (l/100km m ³ /100km kg/100km)	9,9		
Fuel consumption (combined) (l/100km m ³ /100km kg/100km)	9,9		
f ₀ (N)	254.983		
f ₁ (N/(km/h))	0.27646		
f ₂ (N/(km/h) ⁽²⁾)	0.07811		
RR (kg/t)	--		
Delta C _D * A (for VL if applicable compared to VH) (m ²)	--		
Test Mass (kg)	2322,8		
Frontal area (m ²) (for road load matrix family vehicles only)	--		



Results:	Interpolation family identifier IP-2037Y3MAV_F8ZA-LVA-1		
	VH	VM ⁽¹³²⁾	VL ⁽¹³²⁾
CO ₂ mass emission LOW phase (g/km)	306.64		
CO ₂ mass emission MID phase (g/km)	239.79		
CO ₂ mass emission HIGH phase (g/km)	223.65		
CO ₂ mass emission EXTRA-HIGH phase (g/km)	297.02		
CO ₂ mass emission (combined) (g/km)	264.00		
Fuel consumption LOW phase (l/100km m ³ /100km kg/100km)	10,0		
Fuel consumption MID phase (l/100km m ³ /100km kg/100km)	9,9		
Fuel consumption HIGH phase (l/100km m ³ /100km kg/100km)	9,9		
Fuel consumption EXTRA-HIGH phase (l/100km m ³ /100km kg/100km)	9,9		
Fuel consumption (combined) (l/100km m ³ /100km kg/100km)	9,9		
f ₀ (N)	254.983		
f ₁ (N/(km/h))	0.27646		
f ₂ (N/(km/h) ⁽²⁾)	0.07811		
RR (kg/t)	--		
Delta C _D * A (for VL if applicable compared to VH) (m ²)	--		
Test Mass (kg)	2364.4		
Frontal area (m ²) (for road load matrix family vehicles only)	--		



3.2. Externally chargeable hybrid electric vehicles (OVC) ⁽¹³²⁾

Variant/Version of the vehicle:	Not applicable		
CO ₂ mass emission (Condition A, combined) (g/km)	--		
CO ₂ mass emission (Condition B, combined) (g/km)	--		
CO ₂ mass emission (weighted, combined) (g/km)	--		
Fuel consumption (Condition A, combined) (l/100km) ^(g)	--		
Fuel consumption (Condition B, combined) (l/100km) ^(g)	--		
Fuel consumption (weighted, combined) (l/100km) ^(g)	--		
Electric energy consumption (Condition A, combined) (Wh/km)	--		
Electric energy consumption (Condition B, combined) (Wh/km)	--		
Electric energy consumption (weighted and combined) (Wh/km)	--		
Pure electric range (km)	--		
Interpolation family identifier	Variant/versions		
--	--		



Results:	Interpolation family identifier		
	VH	VM ⁽¹³²⁾	VL ⁽¹³²⁾
CS CO ₂ mass emission LOW phase (g/km)	--		
CS CO ₂ mass emission MID phase (g/km)	--		
CS CO ₂ mass emission HIGH phase (g/km)	--		
CS CO ₂ mass emission EXTRA-HIGH phase (g/km)	--		
CS CO ₂ mass emission (combined) (g/km)	--		
CD CO ₂ mass emission (combined) (g/km)	--		
CO ₂ mass emission (weighted, combined) (g/km)	--		
CS Fuel consumption LOW phase (l/100km)	--		
CS Fuel consumption MID phase (l/100km)	--		
CS Fuel consumption HIGH phase (l/100km)	--		
CS Fuel consumption EXTRA-HIGH phase (l/100km)	--		
CS Fuel consumption (combined) (l/100km)	--		
CD Fuel consumption (combined) (l/100km)	--		
Fuel consumption (weighted, combined) (l/100km)	--		
EC _{AC,weighted}	--		
EAER (combined)	--		
EAER _{city}	--		
f ₀ (N)	--		
f ₁ (N/(km/h))	--		
f ₂ (N/(km/h) ⁽²⁾)	--		
RR (kg/t)	--		
Delta C _D x A (for VL or VM compared to VH) (m ²)	--		



Test Mass (kg)	--			
Frontal area (m ²) (for road load matrix family vehicles only)	--			

Repeat for each interpolation family.

3.3 Pure electric vehicles⁽¹³²⁾ : Not applicable

Variant/Version of the vehicle:	--		
Electric energy consumption (Wh/km)	--		
Range (km)	--		

Interpolation family number	Variant/versions
--	--

Results	Interpolation family identifier	
	VH	VL
Electric Consumption (Combined) (Wh/km)	--	
Pure Electric Range (Combined) (km)	--	
Pure Electric Range (City) (km)	--	
f ₀ (N)	--	
f ₁ (N/(km/h))	--	
f ₂ (N/(km/h) ²)	--	
RR (kg/t)	--	
Delta C _d x A (for VL compared to VH) (m ²)	--	
Test Mass (kg)	--	
Frontal area (m ²) (for road load matrix family vehicles only)	--	

3.4 Hydrogen fuel cell vehicles⁽¹³²⁾ : Not applicable

Variant/Version of the vehicle:	--		
Fuel consumption (kg/100km)	--		



	Variant/Version:	Variant/Version:
Fuel Consumption (Combined) (kg/100km)	--	
f_0 (N)	--	
f_1 (N/(km/h))	--	
f_2 (N/(km/h)) ⁽²⁾	--	
RR (kg/t)	--	
Test Mass (kg)	--	

3.5 The correlation tool output report(s) referred to in Commission Implementing Regulation (EU) 2017/1152⁽¹³⁸⁾ or Commission Implementing Regulation 2017/1153⁽¹³⁹⁾, and final NEDC values

Repeat for each interpolation family : Not applicable

Interpolation family identifier⁽¹⁴⁰⁾ : Not applicable

VH report : Not applicable

VL report (if applicable) : Not applicable

3.5.1. Deviation factor (if applicable)

Repeat for each interpolation family : Not applicable

Interpolation family identifier⁽¹⁴⁰⁾ : Not applicable

3.5.2. Verification factor (if applicable)

Repeat for each interpolation family : Not applicable

Interpolation family identifier⁽¹⁴⁰⁾ : Not applicable

3.5.3. Internal combustion engines, including not externally chargeable hybrid electric vehicles (NOVC)

⁽¹⁴¹⁾ ⁽¹³⁵⁾



Final correlated NEDC values	Interpolation family identifier	
	VH	VL ⁽¹³²⁾
CO ₂ mass emission (urban conditions) (g/km)	--	--
CO ₂ mass emission (extra-urban conditions) (g/km)	--	--
CO ₂ mass emission (combined) (g/km)	--	--
Fuel consumption (urban conditions) (l/100km) ⁽¹³²⁾	--	--
Fuel consumption (extra-urban conditions) (l/100km) ⁽¹³²⁾	--	--
Fuel consumption (combined) (l/100km) ⁽¹³¹⁾	--	--

3.5.4. Externally chargeable hybrid electric vehicles (OVC) ⁽¹³²⁾

Final correlated NEDC values	Interpolation family identifier	
	VH	VL ⁽¹³²⁾
CO ₂ mass emission (weighted, combined) (g/km)	--	--
Fuel consumption (weighted, combined) (l/100km) ^(g)	--	--



4. Results of the tests for vehicles fitted with eco-innovation(s) ⁽¹⁴¹⁾ ⁽¹³⁵⁾ ⁽¹⁴²⁾

Tests conducted as required by UN Regulation No 83 ⁽¹⁴³⁾ (where applicable)

Decision approving the eco-innovation ⁽¹⁴⁴⁾	Variant/Version of the vehicle...							
	Code of the eco-innovation ⁽¹⁴⁵⁾	Type 1/l cycle (NEDC/WLTP)	1. CO ₂ emissions of the baseline vehicle (g/km)	2. CO ₂ emissions of the eco-innovation vehicle (g/km)	3. CO ₂ emissions of the baseline vehicle under Type 1 test-cycle ⁽¹⁴⁶⁾	4. CO ₂ emissions of the eco-innovation vehicle under Type 1 test-cycle ⁽¹⁴⁷⁾	5. Usage factor (UF) i.e. temporal share of technology usage in normal operation conditions	CO ₂ emissions savings ((1 - 2) - (3 - 4)) x 5
Xxx/201x								
Total CO ₂ emissions savings on NEDC(g/km) ⁽¹⁴⁸⁾								

Test conducted as required by Annex XXI to Commission Regulation (EU) 2017/1151⁽¹⁴⁹⁾ (where applicable)

Decision approving the eco-innovation ⁽¹⁴⁴⁾	Variant/Version...							
	Code of the eco-innovation ⁽¹⁴⁵⁾	Type 1/l cycle (NEDC/WLTP)	1. CO ₂ emissions of the baseline vehicle (g/km)	2. CO ₂ emissions of the eco-innovation vehicle (g/km)	3. CO ₂ emissions of the baseline vehicle under Type 1 test-cycle ⁽¹⁴⁶⁾	4. CO ₂ emissions of the eco-innovation vehicle under Type 1 test-cycle	5. Usage factor (UF) i.e. temporal share of technology usage in normal operation conditions	CO ₂ emissions savings ((1 - 2) - (3 - 4)) x 5
xxx/201x								
Total CO ₂ emissions savings on WLTP(g/km) ⁽¹⁵⁰⁾								

4.1. General code of the eco-innovation(s) ⁽¹⁵¹⁾ : Not applicable



- (2) If the means of identification of type contains characters not relevant to describe the vehicle, system, component or separate technical unit types covered by this information document, such characters shall be represented in the documentation by the symbol '?' (e.g. ABC??123??).
- (4) Delete where not applicable (there are cases where nothing needs to be deleted when more than one entry is applicable).
- (129) Vehicles can be fuelled with both petrol and a gaseous fuel but, where the petrol system is fitted for emergency purposes or starting only and of which the petrol tank cannot contain more than 15 litres of petrol, will be regarded for the test as vehicles which can only run a gaseous fuel.
- (130) For bi fuel vehicles, the table shall be repeated for both fuels.
- (131) For flex fuel vehicles, when the test is to be performed on both fuels, as required by Figure I.2.4 of Annex I to Commission Regulation (EU) 2017/1151. For vehicles running on LPG or NG/Biomethane, either bi-fuel or mono- fuel, the table shall be repeated for the different reference gases used in the test, and an additional table shall display the worst results obtained in accordance with [When required by?] paragraph 3.1.4. of Annex 12 to UN Regulation No 83 of the Economic Commission for Europe of the United Nations (UN/ECE) – Uniform provisions concerning the approval of vehicles with regard to the emission of pollutants according to engine fuel requirements (OJ L 42, 15.2.2012, p. 1). The results in the table shall be indicated if they are measured or calculated.
- (132) If applicable.
- (133) For Euro VI, ESC shall be understood as WHSC and ETC as WHTC.
- (134) For Euro VI, if CNG and LPG fuelled engines are tested on different reference fuels, the table shall be reproduced for each reference fuel tested.
- (135) Repeat the table for each reference fuel tested.
- (136) The unit 'l/100km' is replaced by 'm³/100km' for vehicles fuelled with NG and H₂NG, and by 'kg/100km' for vehicles fuelled with hydrogen.
- (137) The format for the Interpolation Family Identifier is provided in paragraph 5.0 of Annex XXI to Commission Regulation (EU) 2017/1151 of 1 June 2017 supplementing Regulation (EC) No 715/2007 of the European Parliament and of the Council on type-approval of motor vehicles with respect to emissions from light passenger and commercial vehicles (Euro 5 and Euro 6) and on access to vehicle repair and maintenance information, amending Directive 2007/46/EC of the European Parliament and of the Council, Commission Regulation (EC) No 692/2008 and Commission Regulation (EU) No 1230/2012 and repealing Commission Regulation (EC) No 692/2008 (OJ L 175, 7.7.2017, p. 1).
- (138) Commission Implementing Regulation (EU) 2017/1152 of 2 June 2017 setting out a methodology for determining the correlation parameters necessary for reflecting the change in the regulatory test procedure with regard to light commercial vehicles and amending Implementing Regulation (EU) No 293/2012 (OJ L 175, 7.7.2017, p. 644).
- (139) Commission Implementing Regulation (EU) 2017/1153 of 2 June 2017 setting out a methodology for determining the correlation parameters necessary for reflecting the change in the regulatory test procedure and amending Regulation (EU) No 1014/2010 (OJ L 175, 7.7.2017, p. 679).
- (140) The format for the Interpolation Family Identifier is provided in paragraph 5.0 of Annex XXI to Commission Regulation (EU) 2017/1151.
- (141) Repeat the table for each variant/version of the vehicle.
- (142) Expand the table if necessary, using one extra row per eco-innovation.
- (143) UN Regulation No 83 of the Economic Commission for Europe of the United Nations (UN/ECE) Uniform provisions concerning the approval of vehicles with regard to the emission of pollutants according to engine fuel requirements (OJ L 42, 15.2.2012, p. 1).
- (144) Commission Decision approving the eco-innovation. Article 12 of Regulation (EC) No 443/2009 of the European Parliament and of the Council (OJ L 140, 5.6.2009, p. 1).
- (145) As assigned in the Commission Decision approving the eco-innovation.
- (146) If a modelling methodology is applied instead of the type 1 test cycle, this value shall be the one provided by the modelling methodology.
- (147) = point 3.5.1.3 of Annex I to Commission Implementing Regulation XX/XXX of on implementing Regulation (EU) 2018/858 of the European Parliament and of the Council with regards to the administrative requirements for the approval and market surveillance of motor vehicles and their trailers, and of systems, components and separate technical units intended for such vehicles
- (148) Sum of the results from each individual eco-innovation CO₂ emissions savings on NEDC calculated in the last Colom of this table in accordance with Annex XII to Commission Regulation (EU) 2017/1151.
- (149) Commission Regulation (EU) 2017/1151 of 1 June 2017 supplementing Regulation (EC) No 715/2007 of the European Parliament and of the Council on type-approval of motor vehicles with respect to emissions from light passenger and commercial vehicles (Euro 5 and Euro 6) and on access to vehicle repair and maintenance information, amending Directive 2007/46/EC of the European Parliament and of the Council, Commission Regulation (EC) No 692/2008 and Commission Regulation (EU) No 1230/2012 and repealing Commission Regulation (EC) No 692/2008 (OJ L 175, 7.7.2017, p. 1).
- (150) Sum of the results from each individual eco-innovation CO₂ emissions savings on WLTP calculated in the last Colom of this table in accordance with Annex XII to Commission Regulation (EU) 2017/1151.
- (151) The general code of the eco-innovation(s) shall consist of the following elements, each separated by a blank space:
- The code of the approval authority set out in Annex IV to Commission Implementing Regulation XX/XXX of XXXX on implementing Regulation (EU) 2018/858 of the European Parliament and of the Council with regards to the administrative requirements for the approval and market surveillance of motor vehicles and their trailers, and of systems, components and separate technical units intended for such vehicles;
 - The individual code of each eco-innovation fitted in the vehicle, listed in chronological order of the Commission approval decisions.
- (E.g. the general code of three eco-innovations approved chronologically as 10, 15 and 16 and fitted into a vehicle certified by the German type-approval authority should be: 'e1 10 15 16').