Commission Implementing Regulation (EU) 2020/683 of 15 April 2020 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

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ANNEX I

EXPLANATORY NOTES

(1) Only for the approval under Regulation (EC) No 715/2007 of...
(2) If the means of identification of type contains characters not...
(3) Classified according to the definitions set out in Part A...
(4) Delete where not applicable (there are cases where nothing needs...
(5) In the case of axles fitted with wheels in dual(twin)...
(6) Designation according to EN 10027-1: 2016. If that is not...
(7) ‘Forward control’ means a configuration in which more than half...
(8) According to section 1 of the Automated and Electric Vehicles...
(9) Where there is one version with a normal cab and...
(10) Standard ISO 612:1978 – Road vehicles – Dimensions of motor...
(11) Optional equipment that affects the dimensions of the vehicle shall...
(12) In accordance with definitions 25 (Wheelbase) and 26 (Axle spacing)...
(13) The total axle spacing is the sum of each axle...
(14) Commission Regulation (EU) No 1230/2012 of 12 December 2012 implementing...
(15) Term No 6.19.2.
(16) Term No 6.20.
(17) Term No 6.5.
(18) Term No 6.1 and for vehicles other than those of...
(19) Term No 6.17.
(20) Term No 6.2 and for vehicles other than those of...
(21) Term No 6.3 and for vehicles other than those of...

(22) In the case of an incomplete vehicle.
(23) Term No 6.6.
(24) Term No 6.10.
(25) Term No 6.7.
(26) Term No 6.11.
(27) Term No 6.18.1.
(28) Term No 6.9.
(29) Commission Regulation (EU) No 1230/2012 of 12 December 2012 implementing...
(30) As defined in Regulation (EU) No 1230/2012.
(31) Commission Regulation (EU) No 1230/2012 of 12 December 2012 implementing...
(32) For trailers or semi-trailers, and for vehicles coupled with a...
(33) Please fill in here the upper and lower values for...
(34) 'Coupling overhang' is the horizontal distance between the coupling for...
(35) Only for the purpose of definition of off-road vehicles.
(36) Regulation (EC) No 715/2007 of the European Parliament and of...
(37) Commission Regulation (EC) No 692/2008 of 18 July 2008 implementing...
(38) In the case of a vehicle that can run either...
(39) This figure shall be rounded off to the nearest tenth...
(40) This value shall be calculated (π = 3,1416) and rounded...
(41) Specify the tolerance.
(42) In case of a dual-fuel engine or vehicle.
(43) Determined in accordance with the requirements of Regulation (EC) No...
(44) Commission Regulation (EU) No 582/2011 of 25 May 2011 implementing...
(45) Vehicles can be fuelled with both petrol and a gaseous...
(46) To be documented if not documented in the documentation referred...
(47) To be documented in case of a single OBD engine...
(48) To be documented if not already included in the documentation...
(49) To be documented in case of a single OBD engine...
(50) UN Regulation No 49 of the Economic Commission for Europe...
(51) Commission Regulation (EU) 2017/1151 of 1 June 2017 supplementing Regulation...
(52) UN Regulation No 83 of the Economic Commission for Europe...
(53) UN Regulation No 67 of the Economic Commission for Europe...
(54) UN Regulation No 110 of the Economic Commission for Europe...
(55) Regulation (EC) No 79/2009 of the European Parliament and of...
(56) Determined in accordance with the requirements of Regulation (EC) 715/2007...
(57) Except for dual-fuel engines or vehicles.
(58) In the case of Type 1B, Type 2B, and Type...
(59) Value for the combined WHTC including cold and hot part...
(60) Regulation (EU) 2019/631 of the European Parliament and of the...
(61) Regulation (EU) No 510/2011 of the European Parliament and of...
(62) Commission Implementing Regulation (EU) No 725/2011 of 25 July 2011...
(63) Commission Implementing Regulation (EU) No 427/2014 of 25 April 2014...
(64) Expand the table if necessary, using one extra row per...
(65) Number of the document approving the eco-innovation.
(66) Assigned in the document approving the eco-innovation.
(67) Under agreement of the type-approval authority, if a modelling methodology...
(68) Sum of the CO2 emissions savings of each individual eco-innovation....
(69) Representative vehicle is tested for the road load matrix family....
(70) Commission Regulation (EU) No 136/2014 of 11 February 2014 amending...

(71) Commission Regulation (EU) 2017/2400 of 12 December 2017 implementing Regulation...
(72) As defined in Regulation (EU) 2017/2400
(73) UN Regulation No 85 of the Economic Commission for Europe...
(74) ESC test.
(75) ETC test only.
(76) The specified particulars are to be given for any proposed...
(77) With respect to trailers, maximum speed permitted by the manufacturer....
(78) UN Regulation No 39 of the Economic Commission for Europe...
(79) Commission Regulation (EU) No 65/2012 of 24 January 2012 implementing...
(80) For tyres of category Z intended to be fitted on...
(81) UN Regulation No 21 of the Economic Commission for Europe...
(82) UN Regulation No 121 of the Economic Commission for Europe...
(83) The number of seating positions to be mentioned shall be...
(84) 'R-point' or 'seating reference point' means a design point defined...
(85) UN Regulation No 26 of the Economic Commission for Europe...
(86) The table may be extended as necessary for vehicles with...
(87) UN Regulation No 14 of the Economic Commission for Europe...
(88) For symbols and marks to be used, see paragraph 5.3.4...
(89) Commission Regulation (EU) No 1009/2010 of 9 November 2010 concerning...
(90) Commission Regulation (EU) No 19/2011 of 11 January 2011 concerning...
(91) Commission Regulation (EU) No 109/2011 of 27 January 2011 implementing...
(92) UN Regulation No 48 of the Economic Commission for Europe...
(93) UN Regulation No 10 of the Economic Commission for Europe...
(94) UN Regulation No 138 of the Economic Commission for Europe...
(95) Regulation (EU) No 540/2014 of the European Parliament and of...
(96) UN Regulation No 66 of the Economic Commission for Europe...
(97) UN Regulation No 105 of the Economic Commission for Europe...
(98) These terms are defined in the standard ISO 22628:2002 –...
(99) Regulation (EC) No 715/2007 of the European Parliament and of...
(100) Commission Regulation (EC) No 692/2008 of 18 July 2008 implementing...
(101) Set out in such a way as to make the...
(102) To be indicated where the manufacturer applies Article 28(6) of...
(103) Contracting Parties to the Revised 1958 Agreement.
(104) To be indicated where not obtainable from the number of...
(105) If not available at the time of granting the type-approval,...
(106) Please fill in "not applicable" in the case of a...
(107) In accordance with Annex II to Regulation (EU) 2018/858.
(108) Or visual representation of an 'advanced electronic signature' in accordance...
(109) One ¾ front, one ¾ rear.
(110) One ¾ front, one ¾ rear
(111) This entry shall be completed only where the vehicle has...
(112) In the case of more than one electric motor indicate...
(113) The codes described in Part C of Annex I to...
(114) Indicate only the basic colour(s): white, yellow, orange, red, violet,...
(115) Excluding seats designated for use only when the vehicle is...
(116) Add the number of the Euro level and, if appropriate,...
(117) Commission Regulation (EU) 2017/1151 of 1 June 2017 supplementing Regulation...
(118) Not compulsory
(119) Drawn up in accordance with the model set out in...
(120) Drawn up in accordance with the model set out in...
(121) Only applicable if the vehicle is approved in accordance with...

(122) Commission Regulation (EU) No 1008/2010 of 9 November 2010 concerning...
(123) Commission Regulation (EU) No 19/2011 of 11 January 2011 concerning...
(124) Commission Regulation (EU) No 249/2012 of 21 March 2012 amending...
(125) UN Regulation No 13-H of the Economic Commission for Europe...
(126) UN Regulation No 46 of the Economic Commission for Europe...
(127) Regulation No 28 of the Economic Commission for Europe of...
(128) When restrictions for the fuel are applicable, indicate those restrictions...
(129) Vehicles can be fuelled with both petrol and a gaseous...
(130) For bi fuel vehicles, the table shall be repeated for...
(131) For flex fuel vehicles, when the test is to be...
(132) If applicable.
(133) For Euro VI, ESC shall be understood as WHSC and...
(134) For Euro VI, if CNG and LPG fuelled engines are...
(135) Repeat the table for each reference fuel tested.
(136) The unit ‘l/100km’ is replaced by ‘m3/100km’ for vehicles fuelled...
(137) The format for the Interpolation Family Identifier is provided in...
(138) Commission Implementing Regulation (EU) 2017/1152 of 2 June 2017 setting...
(139) Commission Implementing Regulation (EU) 2017/1153 of 2 June 2017 setting...
(140) The format for the Interpolation Family Identifier is provided in...
(141) Repeat the table for each variant/version of the vehicle.
(142) Expand the table if necessary, using one extra row per...
(143) UN Regulation No 83 of the Economic Commission for Europe...
(144) Document approving the eco-innovation. Article 12 of Regulation (EU) 2019/631...
(145) As assigned in the document approving the eco-innovation.
(146) If a modelling methodology is applied instead of the type...
(147) = point 3.5.1.3 of Annex I to this Regulation, implementing...
(148) Sum of the results from each individual eco-innovation CO2 emissions...
(149) Commission Regulation (EU) 2017/1151 of 1 June 2017 supplementing Regulation...
(150) Sum of the results from each individual eco-innovation CO2 emissions...
(151) The general code of the eco-innovation(s) shall consist of the...
(152) ISO/IEC 17025:2017 General requirements for the competence of testing and...
(153) Indicate the identification code.
(154) Indicate whether the vehicle is suitable for use in either...
(155) The speedometer must be capable of showing both imperial and...
(156) This statement shall not restrict the right of the Secretary...
(157) Entries 4 and 4.1 shall be completed in accordance with...
(158) Masses must be rounded to the nearest whole digit
(159) For hybrid vehicles, indicate both outputs
(160) Optional equipment and additional tyre/wheel combinations under this letter can...
(161) Only applicable to individual vehicles from roadload matrix family (RLMF)....
(162) Repeat for the various fuels that can be used. Vehicles...
(163) In case of EURO VI dual-fuel engines and vehicles, repeat...
(164) Solely emissions assessed in accordance with the applicable regulatory act...
(165) If the vehicle is equipped with 24 GHz short-range radar...
(166) The manufacturer may complete these entries either for international traffic...
(167) Excluding seats designated for use only when the vehicle is...
(168) In the case of completed vehicles of category N1 within...
(169) Only applicable if the vehicle is approved in accordance with...

(170) Only applicable if the vehicle is approved in accordance with...
(171) As indicated in point 2.3 of the customer information file...
(172) As indicated in point 2.4 of the customer information file...
(173) UN Regulation No 105 of the Economic Commission for Europe...
(174) For the term coupling point '0' see Regulation (EU) No...

TEMPLATE FOR AN INFORMATION DOCUMENT FOR THE GB TYPE-APPROVAL OF...

0. GENERAL
- 0.1. Make (trade name of manufacturer): …
- 0.2. Type: …
- 0.2.0.1. Chassis: …
- 0.2.0.2. Bodywork/complete vehicle: …
- 0.2.1. Commercial name(s) (if available): …
- 0.2.2. For multi-stage approved vehicles, type-approval information of the base/previous stage...
- 0.2.2.1. Allowed Parameter Values for multistage type approval to use the...
- 0.2.3. Identifiers (1):
- 0.2.3.1. Interpolation family's identifier: …
- 0.2.3.2. ATCT family's identifier: …
- 0.2.3.3. PEMS family's identifier: …
- 0.2.3.4. Roadload family's identifier
- 0.2.3.4.1. Roadload family of VH: …
- 0.2.3.4.2. Roadload family of VL: …
- 0.2.3.4.3. Roadload families applicable in the interpolation family: …
- 0.2.3.5. Roadload Matrix family's identifier: …
- 0.2.3.6. Periodic regeneration family's identifier: …
- 0.2.3.7. Evaporative test family's identifier: …
- 0.2.3.8. OBD family's identifier: …
- 0.2.3.9. Other family's identifier: …
- 0.3. Means of identification of type, if marked on the vehicle/component/separate...
- 0.3.0.1. Chassis: …
- 0.3.0.2. Bodywork/complete vehicle: …
- 0.3.1. Location of that marking: …
- 0.3.1.1. Chassis: …
- 0.3.1.2. Bodywork/complete vehicle: …
- 0.4. Category of vehicle (3): …
- 0.4.1. Classification(s) according to the dangerous goods which the vehicle is...
- 0.5. Company name and address of manufacturer: …
- 0.5.1. For multi-stage approved vehicles, company name and address of the...
- 0.6. Location and method of attachment of statutory plates and location...
- 0.6.1. On the chassis: …
- 0.6.2. On the bodywork: …
- 0.7. (Not attributed)
- 0.8. Name(s) and address(es) of assembly plant(s): …
- 0.9. Name and address of the manufacturer's representative (if any): …...

1. GENERAL CONSTRUCTION CHARACTERISTICS
- 1.1. Photographs and/or drawings of a representative vehicle/component/separate technical unit (4):...
- 1.2. Dimensional drawing of the whole vehicle (shortest and longest wheelbase...

1.3. Number of axles: … and wheels (5): …
1.3.1. Number and position of axles with twin wheels: …
1.3.2. Number and position of steered axles: …
1.3.3. Powered axles (number, position, interconnection): …
1.4. Chassis (if any) (overall drawing – shortest and longest wheelbase...
1.5. Material used for the side-members (6): …
1.6. Position and arrangement of the engine: …
1.7. Driving cab: forward control (7)/bonneted/sleeper cab (4): …
1.8. Hand of drive: left/right (4).
1.8.1. Vehicle is equipped to be driven in right/left (4) hand...
1.9. Specify if the towing vehicle is intended to tow semi-trailers...
1.10. Specify if the vehicle is specially designed for the controlled-temperature...
1.11. Vehicle is designed to be capable, in at least some...

2. MASSES AND DIMENSIONS (9) (10) (11)
2.1. Wheelbase(s) (fully loaded) (12):
2.1.1. Two-axle vehicles: …
2.1.2. Vehicles with three or more axles
2.1.2.1. Axle spacing between consecutive axles going from the foremost to...
2.1.2.2. Total axle spacing (13): …
2.2. Fifth wheel
2.2.1. In the case of semi-trailers
2.2.1.1. Distance between the axis of the fifth wheel kingpin and...
2.2.1.2. Maximum distance between the axis of the fifth wheel kingpin...
2.2.1.3. Semi-trailer special wheelbase (as defined in point 3.2 of Part...
2.2.2. In the case of semi-trailer towing vehicles
2.2.2.1. Fifth wheel lead (maximum and minimum; indicate the permissible values...
2.2.2.2. Maximum height of the fifth wheel (standardised) (16): …
2.3. Axle track(s) and width(s)
2.3.1. Track of each steered axle (17): …
2.3.2. Track of all other axles (17): …
2.3.3. Width of the widest rear axle (measured at the outermost...
2.3.4. Width of the foremost axle (measured at the outermost part...
2.4. Range of vehicle dimensions (overall)
2.4.1. For chassis without bodywork
2.4.1.1. Length (18): …
2.4.1.1.1 Maximum permissible length: …
2.4.1.1.2 Minimum permissible length: …
2.4.1.1.3 In the case of trailers, maximum permissible drawbar length (19):...
2.4.1.2. Width (20): …
2.4.1.2.1 Maximum permissible width: …
2.4.1.2.2 Minimum permissible width: …
2.4.1.3. Height (in running order) (21) (for suspensions adjustable for height,...
2.4.1.3.1 Maximum permissible height (22): …
2.4.1.4. Front overhang (23): …
2.4.1.4.1 Approach angle (24): …… degrees.
2.4.1.5. Rear overhang (25): …
2.4.1.5.1 Departure angle (26): …… degrees.

2.4.1.5.2. Minimum and maximum permissible overhang of the coupling point (27):...
2.4.1.5.3. Maximum permissible rear overhang (22): …
2.4.1.6. Ground clearance (as defined in point 4.5 of Part A...
2.4.1.6.1. Between the axles: …
2.4.1.6.2. Under the front axle(s): …
2.4.1.6.3. Under the rear axle(s): …
2.4.1.7. Ramp angle (28): …… degrees.
2.4.1.8. Extreme permissible positions of the centre of gravity of the...
2.4.2. For chassis with bodywork
2.4.2.1. Length (18): …
2.4.2.1.1. Length of the loading area: …
2.4.2.1.2. In the case of trailers, maximum permissible drawbar length (28):...
2.4.2.1.3. Elongated cab complying with Appendix 5 of Annex I to...
2.4.2.2. Width (20): …
2.4.2.2.1. Thickness of the walls (in the case of vehicles designed...
2.4.2.3. Height (in running order) (21) (for suspensions adjustable for height,...
2.4.2.4. Front overhang (23): …
2.4.2.4.1. Approach angle (24): …… degrees.
2.4.2.5. Rear overhang (25): …
2.4.2.5.1. Departure angle (26): …… degrees.
2.4.2.5.2. Minimum and maximum permissible overhang of the coupling point (27):...
2.4.2.5.3. Maximum permissible rear overhang: …
2.4.2.6. Ground clearance (as defined in point 4.1 and 4.2 of...
2.4.2.6.1. Between the axles: …
2.4.2.6.2. Under the front axle(s): …
2.4.2.6.3. Under the rear axle(s): …
2.4.2.7. Ramp angle (28): …… degrees.
2.4.2.8. Extreme permissible positions of the centre of gravity of the...
2.4.2.9. Position of centre of gravity of the vehicle (M2 and...
2.4.3. For bodywork approved without chassis (vehicles M2 and M3)
2.4.3.1. Length (18): …
2.4.3.2. Width (20): …
2.4.3.3. Nominal height (in running order) (21) on intended chassis type(s)...
2.5. Minimum mass on the steering axle(s) for incomplete vehicles: ……..
2.6. Mass in running order (30)
2.6.1. Distribution of this mass among the axles and, in the...
2.6.2. Maximum mass of the optional equipment (see the definition set...
2.6.2.1. Distribution of this mass among the axles and, in the...
2.6.3. Rotational mass (1): 3 % of the sum of mass...
2.6.4. Increase in mass for alternative propulsion: …kg
2.6.5. List of equipment to for alternative propulsion (and indication of...
2.7. Minimum mass of the completed vehicle as stated by the...
2.7.1. Distribution of this mass among the axles and, in the...
2.7.2. Maximum permissible actual mass as stated by the manufacturer, in...

2.8. Technically permissible maximum laden mass stated by the manufacturer (32)...
2.8.1. Distribution of this mass among the axles and, in the...
2.9. Technically permissible maximum mass on each axle: …
2.10. Technically permissible mass on each group of axles: …
2.11. Technically permissible maximum towable mass of the towing vehicle
2.11.1. Drawbar trailer: …
2.11.2. Semi-trailer: …
2.11.3. Centre-axle trailer: …
2.11.3.1 Maximum ratio of the coupling overhang (34) to the wheel...
2.11.3.2 Maximum V-value: …… kN.
2.11.4. Rigid drawbar trailer: …
2.11.5. Technically permissible maximum laden mass of the combination (33): …...
2.11.6. Maximum mass of unbraked trailer: …
2.12. Technically permissible maximum mass at the coupling point:
2.12.1. Of a towing vehicle: …
2.12.2. Of a semi-trailer, a centre-axle trailer or a rigid drawbar...
2.12.3. Maximum permissible mass of the coupling device (if not fitted...
2.13. Rear swing-out (Point 8 of Part B/Point 7 of Part...
2.14. Engine power/maximum mass ratio: …… kW/kg.
2.14.1. Engine power/technically permissible maximum laden mass of the combination ratio...
2.15. Hill-starting ability (solo vehicle) (35): …… %.
2.16. Registration/in service maximum permissible masses, vehicle categories M2, M3, N2,...
2.16.1. Registration/in service maximum permissible laden mass: …
2.16.2. Registration/in service maximum permissible mass on each axle and, in...
2.16.3. Registration/in service maximum permissible mass on each group of axles:...
2.16.4. Intended registration/in service maximum permissible towable mass (several entries possible...
2.16.5. Registration/in service maximum permissible mass of the combination: …
2.17. Vehicle submitted to multi-stage type-approval (only in the case of...
2.17.1. Mass of the base vehicle in running order: … kg....
2.17.2. Default added mass, calculated in accordance with Section 5 of...

3. PROPULSION ENERGY CONVERTER (38)
3.1. Manufacturer of the propulsion energy converter(s): …
3.1.1. Manufacturer’s code (as marked on the propulsion energy converter or...
3.1.2. Number of the approval certificate (where appropriate), including fuel identification...
3.2. Internal combustion engine
3.2.1. Specific engine information
3.2.1.1. Working principle: positive ignition/compression ignition/dual- fuel (4)

3.2.1.1.1Type of dual-fuel engine: Type 1A/Type 1B/Type 2A/Type 2B/Type 3B...
3.2.1.1.2Gas energy ratio over the hot part of the WHTC...
3.2.1.2. Number and arrangement of cylinders: …
3.2.1.2.1Bore (39): …… mm
3.2.1.2.2Stroke (39): …… mm
3.2.1.2.3Firing order: …
3.2.1.3. Engine capacity (40): …… cm3
3.2.1.4. Volumetric compression ratio (41): …
3.2.1.5. Drawings of combustion chamber, piston crown and, in the case...
3.2.1.6. Normal engine idling speed (41): …… min-1
3.2.1.6.1High engine idling speed (41): …… min-1
3.2.1.6.2Idle on diesel: yes/no (4) (42)
3.2.1.7. Carbon monoxide content by volume in the exhaust gas with...
3.2.1.8. Maximum net power (43): … kW at … min–1 (manufacturer's...
3.2.1.9. Maximum permitted engine speed as prescribed by the manufacturer: …...
3.2.1.10Maximum net torque (43): … Nm at … min-1 (manufacturer's...
3.2.1.11Manufacturer references of the documentation and extended documentation packages required...
3.2.2. Fuel
3.2.2.1. Diesel/Petrol/LPG/NG or Biomethane/Ethanol (E 85)/Biodiesel/ Hydrogen (4) (45)
3.2.2.1.1RON, unleaded: …
3.2.2.2. Heavy duty vehicles Diesel/Petrol/LPG/NG-H/NG-L/NG-HL/Ethanol (ED95)/Ethanol (E85)/LNG/LNG20 (4) (45)
3.2.2.2.1(Euro VI only) Fuels compatible with use by the engine...
3.2.2.3. Fuel tank inlet: restricted orifice/label (4)
3.2.2.4. Vehicle fuel type: Mono fuel, Bi fuel, Flex fuel, Dual...
3.2.2.5. Maximum amount of biofuel acceptable in fuel (manufacturer's declared value):...
3.2.3. Fuel tank(s)
3.2.3.1. Service fuel tank(s)
3.2.3.1.1Number and capacity of each tank: …
3.2.3.1.1Material: …
3.2.3.1.2Drawing and technical description of the tank(s) with all connections...
3.2.3.1.3Drawing clearly showing the position of the tank(s) in the...
3.2.3.2. Reserve fuel tank(s)
3.2.3.2.1Number and capacity of each tank: …
3.2.3.2.1Material: …
3.2.3.2.2Drawing and technical description of the tank(s) with all connections...
3.2.3.2.3Drawing clearly showing the position of the tank(s) in the...
3.2.4. Fuel feed
3.2.4.1. By carburettor(s): yes/no (4)
3.2.4.2. By fuel injection (compression ignition or dual-fuel only): yes/no (4)...
3.2.4.2.1System description (common rail/unit injectors/distribution pump etc.): …
3.2.4.2.2Working principle: direct injection/pre-chamber/swirl chamber (4)
3.2.4.2.3Injection/Delivery pump
3.2.4.2.3Make(s): …
3.2.4.2.3Type(s): …
3.2.4.2.3Maximum fuel delivery (4) (41): … mm3/stroke or cycle at...
3.2.4.2.3Static injection timing (41): …

3.2.4.2.3.5. Injection advance curve (41): …
3.2.4.2.3.6. Calibration procedure: test bench/engine (4)
3.2.4.2.4. Engine speed limitation control
3.2.4.2.4.1. Type: …
3.2.4.2.4.2. Cut-off point
3.2.4.2.4.2.1. Speed at which cut-off starts under load: …… min-1
3.2.4.2.4.2.2. Maximum no-load speed: …… min-1
3.2.4.2.4.2.3. Idling speed: ….. min-1
3.2.4.2.5. Injection piping (heavy-duty vehicles only)
3.2.4.2.5.1. Length: …… mm
3.2.4.2.5.2. Internal diameter: …… mm
3.2.4.2.5.3. Common rail, make and type: …
3.2.4.2.6. Injector(s)
3.2.4.2.6.1. Make(s): …
3.2.4.2.6.2. Type(s): …
3.2.4.2.6.3. Opening pressure (41): … kPa or characteristic diagram (41): …...
3.2.4.2.7. Cold start system
3.2.4.2.7.1. Make(s): …
3.2.4.2.7.2. Type(s): …
3.2.4.2.7.3. Description: …
3.2.4.2.8. Auxiliary starting aid
3.2.4.2.8.1. Make(s): …
3.2.4.2.8.2. Type(s): …
3.2.4.2.8.3. System description: …
3.2.4.2.9. Electronic controlled injection: yes/no (4)
3.2.4.2.9.1. Make(s): …
3.2.4.2.9.2. Type(s):
3.2.4.2.9.3. Description of the system
3.2.4.2.9.3.1. Make and type of the control unit (ECU): …
3.2.4.2.9.3.2. Software identification number of the ECU: …
3.2.4.2.9.3.3. Make and type of the fuel regulator: …
3.2.4.2.9.3.4. Make and type of the air-flow sensor: …
3.2.4.2.9.3.5. Make and type of fuel distributor: …
3.2.4.2.9.3.6. Make and type of the throttle housing: …
3.2.4.2.9.3.7. Make and type of water temperature sensor: …
3.2.4.2.9.3.8. Make and type of air temperature sensor: …
3.2.4.2.9.3.9. Make and type of air pressure sensor: …
3.2.4.3. By fuel injection (positive ignition only): yes/no (4)
3.2.4.3.1. Working principle: intake manifold (single-/multi-point/direct injection (4)/other (specify): …
3.2.4.3.2. Make(s): …
3.2.4.3.3. Type(s): …
3.2.4.3.4. System description (In the case of systems other than continuous...
3.2.4.3.4.1. Make and type of the control unit (ECU): …
3.2.4.3.4.2. Software identification number of the ECU: …
3.2.4.3.4.3. Make and type of fuel regulator: …
3.2.4.3.4.4. Make and type or working principle of air-flow sensor: …...
3.2.4.3.4.5. Make and type of fuel distributor: …
3.2.4.3.4.6. Make and type of pressure regulator: …
3.2.4.3.4.7. Make and type of micro switch: …
3.2.4.3.4.8. Make and type of idling adjustment screw: …
3.2.4.3.4.9. Make and type of throttle housing: …
3.2.4.3.4.10. Make and type water temperature sensor: …

3.2.4.3.4.0. Make and type air temperature sensor: …
3.2.4.3.4.1. Make and type air pressure sensor: …
3.2.4.3.4.2. Software identification number(s): …
3.2.4.3.5. Injectors
3.2.4.3.5.1. Make and type: …
3.2.4.3.6. Injection timing: …
3.2.4.3.7. Cold start system
3.2.4.3.7.1. Operating principle(s): …
3.2.4.3.7.2. Operating limits/settings (4) (41): …
3.2.4.4 Feed pump
3.2.4.4.1. Pressure (41): … kPa or characteristic diagram(41): …
3.2.4.4.2. Make(s): ….
3.2.4.4.3. Type(s): …
3.2.5. Electrical system
3.2.5.1. Rated voltage: …… V, positive/negative ground (41)
3.2.5.2. Generator
3.2.5.2.1. Make and type: …
3.2.5.2.2. Nominal output: …… VA
3.2.6. Ignition system (spark ignition engines only)
3.2.6.1. Make(s): …
3.2.6.2. Type(s): …
3.2.6.3. Working principle: …
3.2.6.4. Ignition advance curve or map (41): …
3.2.6.5. Static ignition timing (41): …… degrees before TDC
3.2.6.6. Spark plugs
3.2.6.6.1. Make: …
3.2.6.6.2. Type: …
3.2.6.6.3. Gap setting: ……mm
3.2.6.7. Ignition coil(s)
3.2.6.7.1. Make: …
3.2.6.7.2. Type: …
3.2.7. Cooling system: liquid/air (4)
3.2.7.1. Nominal setting of the engine temperature control mechanism: …
3.2.7.2. Liquid
3.2.7.2.1. Nature of liquid: …
3.2.7.2.2. Circulating pump(s): yes/no (4)
3.2.7.2.3. Characteristics: ……. or
3.2.7.2.3. Make(s): …
3.2.7.2.3.1. Type(s): …
3.2.7.2.4. Drive ratio(s): …
3.2.7.2.5. Description of the fan and its drive mechanism: …
3.2.7.3. Air
3.2.7.3.1. Fan: yes/no (4)
3.2.7.3.2. Characteristics: ……. Or
3.2.7.3.2. Make(s): …
3.2.7.3.2.1. Type(s): …
3.2.7.3.3. Drive ratio(s): …
3.2.8. Intake system
3.2.8.1. Pressure charger: yes/no (4)
3.2.8.1.1. Make(s): …
3.2.8.1.2. Type(s): …
3.2.8.1.3. Description of the system (e.g. maximum charge pressure: …… kPa;...
3.2.8.2. Intercooler: yes/no (4)

3.2.8.2.1 Type: air-air/air-water (4)
3.2.8.3. Intake depression at rated engine speed and at 100 %...
3.2.8.3.1 Minimum allowable: ……. kPa
3.2.8.3.2 Maximum allowable: …… kPa
3.2.8.3.3 (Euro VI only) Actual Intake system depression at rated engine...
3.2.8.4. Description and drawings of inlet pipes and their accessories (plenum...
3.2.8.4.1 Intake manifold description (include drawings and/or photos): …
3.2.8.4.2 Air filter, drawings: …
3.2.8.4.2.1 Make(s): …
3.2.8.4.2.2 Type(s): …
3.2.8.4.3 Intake silencer, drawings: …
3.2.8.4.3.1 Make(s): …
3.2.8.4.3.2 Type(s): …
3.2.9. Exhaust system
3.2.9.1. Description and drawing of the exhaust manifold: …
3.2.9.2. Description and drawing of the exhaust system: …
3.2.9.2.1 (Euro VI only) Description and/or drawing of the elements of...
3.2.9.3. Maximum allowable exhaust back pressure at rated engine speed and...
3.2.9.3.1 (Euro VI only) Actual exhaust backpressure at rated engine speed...
3.2.9.4. Make(s) and type(s) of exhaust silencer(s): …
3.2.9.5. Location of the exhaust outlet: …
3.2.9.6. Exhaust silencer containing fibrous materials: …
3.2.9.6.1 Description of the location and type of fibrous materials used:...
3.2.9.7. Complete exhaust system volume: … dm3
3.2.9.7.1 (Euro VI only) Acceptable exhaust system volume: … dm3
3.2.9.7.2 (EURO VI only) Volume of the exhaust system that is...
3.2.10. Minimum cross-sectional areas of inlet and outlet ports: …
3.2.11. Valve timing or equivalent data
3.2.11.1 Maximum lift of valves, angles of opening and closing, or...
3.2.11.2 Reference and/or setting ranges (4): …
3.2.12. Measures taken against air pollution
3.2.12.0 Emission character of type approval (1)
3.2.12.1 Device for recycling crankcase gases (description and drawings): …
3.2.12.1 (Euro VI only) Device for recycling crankcase gases: yes/no (41)...
3.2.12.2 Pollution control devices (if not covered by another heading)
3.2.12.2 Catalytic converter
3.2.12.2 Number of catalytic converters and elements (provide the information below...
3.2.12.2 Dimensions, shape and volume of the catalytic converter(s): …
3.2.12.2 Type of catalytic action: … (oxidising, three-way, lean NOx trap,...
3.2.12.2 Total charge of precious metals: …
3.2.12.2 Relative concentration: …
3.2.12.2 Substrate (structure and material): …
3.2.12.2 Cell density: …
3.2.12.2 Type of casing for the catalytic converter(s): …
3.2.12.2 Location of the catalytic converter(s) (place and reference distance in...
3.2.12.2 Heat shield: yes/no (4)
3.2.12.2 Normal operating temperature range: … °C
3.2.12.2 Make of catalytic converter: …
3.2.12.2 Identifying part number: …
3.2.12.2 Sensors
3.2.12.2 Oxygen sensor: yes/no (4)
3.2.12.2 Make and type: …

3.2.12.2.1.2. Location: …
3.2.12.2.1.3. Control range: ….
3.2.12.2.1.4. Type or working principle: …
3.2.12.2.1.5. Identifying part number: …
3.2.12.2.2. NOx sensor: yes/no (4)
3.2.12.2.2.1. Make: …
3.2.12.2.2.2. Type: ….
3.2.12.2.2.3. Location: …
3.2.12.2.3. Particulate sensor: yes/no (4)
3.2.12.2.3.1. Make: …
3.2.12.2.3.2. Type: ….
3.2.12.2.3.3. Location: …
3.2.12.2.4. Air injection: yes/no (4)
3.2.12.2.4.1. Type (pulse air, air pump, etc.): …
3.2.12.2.5. Exhaust gas recirculation (EGR): yes/no (4)
3.2.12.2.5.1. Characteristics (make, type, flow, high pressure/low pressure/ combined pressure, etc.): …...
3.2.12.2.5.2. Water-cooled system (to be specified for each EGR system e.g....
3.2.12.2.6. Evaporative emissions control system (petrol and ethanol engines only): yes/no...
3.2.12.2.6.1. Detailed description of the devices: ….
3.2.12.2.6.2. Drawing of the evaporative control system: …
3.2.12.2.6.3. Drawing of the carbon canister: …
3.2.12.2.6.3.1. Make and type of the carbon canister: …
3.2.12.2.6.4. Mass of dry charcoal: … g
3.2.12.2.6.5. Type of dry charcoal: …
3.2.12.2.6.5. Schematic drawing of the fuel tank (petrol and ethanol engines...
3.2.12.2.6.5.1. Fuel tank system capacity, material and construction: …
3.2.12.2.6.5.2. Description of vapour hose material, fuel line material and connection...
3.2.12.2.6.5.3. Sealed tank system: yes/no (4)
3.2.12.2.6.5.4. Description of fuel tank relief valve setting (air ingestion and...
3.2.12.2.6.5.5. Description of the purge control system: …
3.2.12.2.6.5.6. Description and schematic of the heat shield between tank and...
3.2.12.2.6.5.7. Permeability factor: …
3.2.12.2.7. Particulate trap (PT): yes/no (4)
3.2.12.2.7.1. Dimensions, shape and capacity of the particulate trap: …
3.2.12.2.7.2. Design of the particulate trap: …
3.2.12.2.7.3. Location (reference distance in the exhaust line): …
3.2.12.2.7.4. Make of particulate trap: …
3.2.12.2.7.5. Identifying part number: …
3.2.12.2.7.7. Normal operating temperature: … (K) and pressure range … (KPa)...
3.2.12.2.7.8. In the case of periodic regeneration (heavy-duty vehicles only)
3.2.12.2.7.8.1. Number of ETC test cycles between 2 regenerations (n1): …...
3.2.12.2.7.8.1.1. (Euro VI only) Number of WHTC test cycles without regeneration...
3.2.12.2.7.8.2. Number of ETC cycles during regeneration (n2): …(not applicable to...
3.2.12.2.7.8.2.1. (Euro VI only) Number of WHTC test cycles with regeneration...
3.2.12.2.8. Other systems: yes/no (4)
3.2.12.2.8.1. Description and operation
3.2.12.2.9. On-board-diagnostic (OBD) system: yes/no (4): …
3.2.12.2.9.1. (Euro VI only) Number of OBD engine families within the...
3.2.12.2.9.2. (Euro VI only) List of the OBD engine families (when...
3.2.12.2.9.3. (Euro VI only) Number of the OBD engine family the...

3.2.12.2.6.4. (Euro VI only) Manufacturer references of the OBD-Documentation required by...
3.2.12.2.6.5. (Euro VI only) When appropriate, manufacturer reference of the Documentation...
3.2.12.2.6.6. (Euro VI only) When appropriate, manufacturer reference of the documentation...
3.2.12.2.7. Written description and/or drawing of the MI (46): …
3.2.12.2.8. Written description and/or drawing of the OBD off-board communication interface...
3.2.12.2.9. Written description and/or drawing of the MI: …
3.2.12.2.10. List and purpose of all components monitored by the OBD...
3.2.12.2.11. Written description (general working principles) for
3.2.12.2.11.1. Positive-ignition engines
3.2.12.2.11.1.1. Catalyst monitoring: …
3.2.12.2.11.1.2. Misfire detection: …
3.2.12.2.11.1.3. Oxygen sensor monitoring: …
3.2.12.2.11.1.4. Particulate trap monitoring: …
3.2.12.2.11.1.5. Other components monitored by the OBD system: …
3.2.12.2.11.2. Compression-ignition engines: …
3.2.12.2.11.2.1. Catalyst monitoring: …
3.2.12.2.11.2.2. Particulate trap monitoring: …
3.2.12.2.11.2.3. Electronic fuelling system monitoring: …
3.2.12.2.11.2.4. DeNOx system monitoring: …
3.2.12.2.11.2.5. Other components monitored by the OBD system: …
3.2.12.2.12. Criteria for MI activation (fixed number of driving cycles or...
3.2.12.2.13. List of all OBD output codes and formats used (with...
3.2.12.2.14. The following additional information shall be provided by the vehicle...
3.2.12.2.14.1. A description of the type and number of the preconditioning...
3.2.12.2.14.2. A description of the type of the OBD demonstration cycle...
3.2.12.2.14.3. A comprehensive document describing all sensed components with the strategy...
3.2.12.2.14.4. The information required above may be defined by completing a...
3.2.12.2.14.4.1. Light-duty vehicles
3.2.12.2.14.4.2. Heavy-duty vehicles
3.2.12.2.15. (Euro VI only) OBD Communication protocol standard (47):
3.2.12.2.17. (Euro VI only) Manufacturer reference of the OBD related information...
3.2.12.2.17.1. As an alternative to the manufacturer reference provided in point...
3.2.12.2.18. (EURO VI only) OBD components on-board the vehicle
3.2.12.2.18.1. Alternative approval as provided for in point 2.4.1 of Annex...
3.2.12.2.18.2. List of OBD components on-board the vehicle
3.2.12.2.18.2. Written description and/or drawing of the MI (48)
3.2.12.2.18.3. Written description and/or drawing of the OBD off-board communication interface...
3.2.12.2.19. Other system: …
3.2.12.2.19.1. (Euro VI only) Systems to ensure the correct operation of...
3.2.12.2.19.2. Driver inducement system
3.2.12.2.19.2.1. (Euro VI only) Engine with permanent deactivation of the driver...
3.2.12.2.19.2.2. Activation of the creep mode
3.2.12.2.19.2.3. Type of inducement system: no engine restart after countdown/no start...
3.2.12.2.19.2.4. Description of the inducement system
3.2.12.2.19.2.5. Equivalent to the average driving range of the vehicle with...

3.2.12.2.(E3 Euro VI only) Number of OBD engine families within the...
3.2.12.2.(E3.1 Euro VI only) List of the OBD engine families within...
3.2.12.2.(E3.2 Euro VI only) Number of the OBD engine family the...
3.2.12.2.(E4 Euro VI only) List of the OBD engine families (when...
3.2.12.2.(E5 Euro VI only) Number of the OBD engine family the...
3.2.12.2.(E6 Euro VI only) lowest concentration of the active ingredient present...
3.2.12.2.(E7 Euro VI only) When appropriate, manufacturer reference of the Documentation...
3.2.12.2.(E8 EURO VI only) Components on-board the vehicle of the systems...
3.2.12.2.List of components on-board the vehicle of the systems ensuring...
3.2.12.2.When appropriate, manufacturer reference of the documentation package related to...
3.2.12.2.Written description and/or drawing of the warning signal (48)
3.2.12.2.Alternative approval provided for in point 2.1 of Annex XIII...
3.2.12.2.Heated/non-heated reagent tank and dosing system (see paragraph 2.4 of...
3.2.12.2.Torque limiter: yes/no (4)
3.2.12.2.Description of the torque limiter activation (heavy-duty vehicles only): …...
3.2.12.2.Description of the full load curve limitation (heavy-duty vehicles only):...
3.2.12.2.Periodically regenerating system: (provide the information below for each separate...
3.2.12.2.Method or system of regeneration, description and/or drawing: ….
3.2.12.2.The number of Type 1 operating cycles, or equivalent engine...
3.2.12.2.Applicable Type 1 cycle (indicate the applicable procedure: Regulation (EU)...
3.2.12.2.Description of method employed to determine the number of cycles...
3.2.12.2.Parameters to determine the level of loading required before regeneration...
3.2.12.2.Description of method used to load system in the test...
3.2.12.2.Catalytic converter systems using consumable reagents (provide the information below...
3.2.12.2.Type and concentration of reagent needed: …
3.2.12.2.Normal operational temperature range of reagent: …
3.2.12.2.International standard: …
3.2.12.2.Frequency of reagent refill: continuous/maintenance (where appropriate):
3.2.12.2.Reagent indicator (description and location): …
3.2.12.2.Reagent tank
3.2.12.2.Capacity: …
3.2.12.2.Heating system: yes/no (4)
3.2.12.2.Description or drawing: …
3.2.12.2.Reagent control unit: yes/no (4)
3.2.12.2.Make: …
3.2.12.2.Type: …
3.2.12.2.Reagent injector (make type and location): …
3.2.12.2.Water injection: yes/no (4)
3.2.13. Smoke opacity
3.2.13.1 Location of the absorption coefficient symbol (compression ignition engines only):...
3.2.13.2 Power at six points of measurement (see Appendix 2 of...
3.2.13.3 Engine power measured on test bench/on the vehicle

3.2.13.3.1. Declared speeds and powers
3.2.14. Details of any devices designed to influence fuel economy (if...
3.2.15. LPG fuelling system: yes/no (4)
3.2.15.1. The number of the type-approval certificate issued in accordance with...
3.2.15.2. Electronic engine management control unit for LPG fuelling
3.2.15.2.1. Make(s): …
3.2.15.2.2. Type(s): …
3.2.15.2.3. Emission-related adjustment possibilities: …
3.2.15.3. Further documentation
3.2.15.3.1. Description of the safeguarding of the catalyst at switch-over from...
3.2.15.3.2. System layout (electrical connections, vacuum connections compensation hoses, etc.): …...
3.2.15.3.3. Drawing of the symbol: …
3.2.16. NG fuelling system: yes/no (4)
3.2.16.1. The number of the type-approval certificate issued in accordance with...
3.2.16.2. Electronic engine management control unit for NG fuelling
3.2.16.2.1. Make(s): …
3.2.16.2.2. Type(s): …
3.2.16.2.3. Emission-related adjustment possibilities: …
3.2.16.3. Further documentation
3.2.16.3.1. Description of the safeguarding of the catalyst at switch-over from...
3.2.16.3.2. System layout (electrical connections, vacuum connections compensation hoses, etc.): …...
3.2.16.3.3. Drawing of the symbol: …
3.2.17. Specific information related to gas and dual-fuel engines for heavy-duty...
3.2.17.1. Fuel: LPG/NG-H/NG-L/NG-HL (4)
3.2.17.2. Pressure regulator(s) or vaporiser/pressure regulator(s) (4)
3.2.17.2.1. Make(s): …
3.2.17.2.2. Type(s): …
3.2.17.2.3. Number of pressure reduction stages: …
3.2.17.2.4. Pressure in final stage minimum: ….. kPa – maximum: …...
3.2.17.2.5. Number of main adjustment points: …
3.2.17.2.6. Number of idle adjustment points: …
3.2.17.2.7. Number of the type-approval certificate: …
3.2.17.3. Fuelling system: mixing unit/gas injection/liquid injection/direct injection (4)
3.2.17.3.1. Mixture strength regulation: …
3.2.17.3.2. System description and/or diagram and drawings: …
3.2.17.3.3. Number of the type-approval certificate: …
3.2.17.4. Mixing unit
3.2.17.4.1. Number: …
3.2.17.4.2. Make(s): …
3.2.17.4.3. Type(s): …
3.2.17.4.4. Location: …
3.2.17.4.5. Adjustment possibilities: …
3.2.17.4.6. Number of the type-approval certificate: …
3.2.17.5. Inlet manifold injection
3.2.17.5.1. Injection: single point/multipoint (4)
3.2.17.5.2. Injection: continuous/simultaneously timed/sequentially timed (4)
3.2.17.5.3. Injection equipment

3.2.17.5.1. Make(s): …
3.2.17.5.2. Type(s): …
3.2.17.5.3. Adjustment possibilities: …
3.2.17.5.4. Number of the type-approval certificate: …
3.2.17.5.4. Supply pump (if applicable)
3.2.17.5.4.1. Make(s): …
3.2.17.5.4.2. Type(s): …
3.2.17.5.4.3. Number of the type-approval certificate: …
3.2.17.5.5. Injector(s) …
3.2.17.5.5.1. Make(s): …
3.2.17.5.5.2. Type(s): …
3.2.17.5.5.3. Number of the type-approval certificate: …
3.2.17.6. Direct injection
3.2.17.6.1. Injection pump/pressure regulator (4)
3.2.17.6.1.1. Make(s): …
3.2.17.6.1.2. Type(s): …
3.2.17.6.1.3. Injection timing: …
3.2.17.6.1.4. Number of the type-approval certificate: …
3.2.17.6.2. Injector(s) …
3.2.17.6.2.1. Make(s): …
3.2.17.6.2.2. Type(s): …
3.2.17.6.2.3. Opening pressure or characteristic diagram (41): …
3.2.17.6.2.4. Number of the type-approval certificate: …
3.2.17.7. Electronic control unit (ECU)
3.2.17.7.1. Make(s): …
3.2.17.7.2. Type(s): …
3.2.17.7.3. Adjustment possibilities: …
3.2.17.7.4. Software calibration number(s): …
3.2.17.8. NG fuel-specific equipment
3.2.17.8.1. Variant 1 (only in the case of approvals of engines...
3.2.17.8.1.1. (Euro VI only) Self-adaptive feature? yes/no (4)
3.2.17.8.1.2. (Euro VI only) Calibration for a specific gas composition NG-H/NG-L/NG-HL/LNG...
3.2.17.8.1.3. Fuel composition:
3.2.17.8.1.4. Injector(s)
3.2.17.8.1.4.1. Make(s): …
3.2.17.8.1.4.2. Type(s): …
3.2.17.8.1.5. Others (if applicable): …
3.2.17.8.2. Variant 2 (only in the case of approvals for several...
3.2.17.9. When appropriate, manufacturer reference of the documentation for installing the...
3.2.18. Hydrogen fuelling system: yes/no (4)
3.2.18.1. The number of the GB type-approval certificate issued in accordance...
3.2.18.2. Electronic engine management control unit for hydrogen fuelling
3.2.18.2.1. Make(s): …
3.2.18.2.2. Type(s): …
3.2.18.2.3. Emission-related adjustment possibilities: …
3.2.18.3. Further documentation
3.2.18.3.1. Description of the safeguarding of the catalyst at switch-over from...
3.2.18.3.2. System lay-out (electrical connections, vacuum connections compensation hoses, etc.): …...
3.2.18.3.3. Drawing of the symbol: …
3.2.19. H2NG fuelling system: yes/no (4)

3.2.19.1 Percentage of hydrogen in the fuel (the maximum specified by...
3.2.19.2 Number of the GB type-approval certificate issued in accordance with...
3.2.19.3 Electronic engine management control unit for H2NG fuelling
3.2.19.3.1 Make(s): …
3.2.19.3.2 Type(s): …
3.2.19.3.3 Emission-related adjustment possibilities: …
3.2.19.4 Further documentation
3.2.19.4.1 System lay-out (electrical connections, vacuum connections compensation hoses, etc.): …...
3.2.19.4.2 Drawing of the symbol: …
3.2.20. Heat storage information (1)
3.2.20.1 Active heat storage device: yes/no (4)
3.2.20.1.1 Enthalpy: … (J)
3.2.20.2 Insulation materials: yes/no (4)
3.2.20.2.1 Insulation material: …
3.2.20.2.2 Insulation volume: …
3.2.20.2.3 Insulation weight: …
3.2.20.2.4 Insulation location: …
3.2.20.2.5 Worst case approach vehicle cool down: yes/no (4)
3.2.20.2.5.1 (Not worst-case approach) Minimum soaking time, tsoak_ATCT (hours): …
3.2.20.2.5.2 (Not worst-case approach) Location of the engine temperature measurement: …...
3.2.20.2.6 Single interpolation family within the ATCT family approach: yes/no (4)...

3.3. Electric machine
3.3.1. Type (winding, excitation): …
3.3.1.1.1 Maximum net power (43) … kW (manufacturer's declared value)
3.3.1.1.2 Maximum 30 minutes power (43)… kW (manufacturer's declared value)
3.3.1.2. Operating voltage: … V
3.3.2. REESS
3.3.2.1. Number of cells: …
3.3.2.2. Mass: …… kg
3.3.2.3. Capacity: …… Ah (Amp-hours)
3.3.2.4. Position: …

3.4. Combinations of propulsion energy converters
3.4.1. Hybrid electric vehicle: yes/no (4)
3.4.2. Category of hybrid electric vehicle: off-vehicle charging/not off-vehicle charging (4):...
3.4.3. Operating mode switch: with/without (4)
3.4.3.1. Selectable modes
3.4.3.1.1 Pure electric: yes/no (4)
3.4.3.1.2 Pure fuel consuming: yes/no (4)
3.4.3.1.3 Hybrid modes: yes/no (4)
3.4.4. Description of the energy storage device: (REESS, capacitor, flywheel/generator)
3.4.4.1. Make(s): …
3.4.4.2. Type(s): …
3.4.4.3. Identification number: …
3.4.4.4. Kind of electrochemical couple: …

3.4.4.5. Energy: … (for REESS: voltage and capacity Ah in 2...
3.4.4.6. Charger: on board/external/without (4)
3.4.5. Electric machine (describe each type of electric machine separately)
3.4.5.1. Make: …
3.4.5.2. Type: …
3.4.5.3. Primary use: traction motor/generator (4)
3.4.5.3.1. When used as traction motor: single-/multimotors (number) (4): …
3.4.5.4. Maximum power: …… kW
3.4.5.5. Working principle
3.4.5.5.1. Direct current/alternating current/number of phases: …
3.4.5.5.2. Separate excitation/series/compound (4)
3.4.5.5.3. Synchronous/asynchronous (4)
3.4.6. Control unit
3.4.6.1. Make(s): …
3.4.6.2. Type(s): …
3.4.6.3. Identification number: …
3.4.7. Power controller
3.4.7.1. Make: …
3.4.7.2. Type: …
3.4.7.3. Identification number: …
3.5. Manufacturer's declared values for determination of CO2 emissions/fuel consumption/electric consumption/electric...
3.5.1. CO2 mass emissions
3.5.1.1. CO2 mass emissions (urban conditions): … g/km
3.5.1.2. CO2 mass emissions (extra-urban conditions): … g/km
3.5.1.3. CO2 mass emissions (combined): … g/km
3.5.2. Fuel consumption (provide details for each reference fuel tested)
3.5.2.1. Fuel consumption (urban conditions)… l/100km or m3/100km or kg/100km (4)...
3.5.2.2. Fuel consumption (extra-urban conditions)… l/100km or m3/100km or kg/100km (4)...
3.5.2.3. Fuel consumption (combined) … l/100km or m3/100km or kg/100km (4)...
3.5.3. Electric energy consumption for electric vehicles
3.5.3.1. Electric energy consumption for pure electric vehicles … Wh/km
3.5.3.2. Electric energy consumption for externally chargeable hybrid electric vehicles
3.5.3.2.1. Electric energy consumption (Condition A, combined) … Wh/km
3.5.3.2.2. Electric energy consumption (Condition B, combined) … Wh/km
3.5.3.2.3. Electric energy consumption (weighted combined) … Wh/km
3.5.4. CO2 emissions for heavy duty engines (Euro VI only)
3.5.4.1. CO2 mass emissions WHSC test (57): … g/kWh
3.5.4.2. CO2 mass emissions WHSC test in diesel mode (58): …...
3.5.4.3. CO2 mass emissions WHSC test in dual-fuel mode(42) … g/kWh...
3.5.4.4. CO2 mass emissions WHTC test (57) (59): … g/kWh
3.5.4.5. CO2 mass emissions WHTC test in diesel mode (58) (59):...

3.5.4.6. CO2 mass emissions WHTC test in dual-fuel mode (42) (59):...
3.5.5. Fuel consumption for heavy duty engines (Euro VI only)
3.5.5.1. Fuel consumption WHSC test (57): … g/kWh
3.5.5.2. Fuel consumption WHSC test in diesel mode (58): … g/kWh...
3.5.5.3. Fuel consumption WHSC test in in dual-fuel mode (42): …...
3.5.5.4. Fuel consumption WHTC test (57) (59): … g/kWh
3.5.5.5. Fuel consumption WHTC test in diesel mode (58) (59): …...
3.5.5.6. Fuel consumption WHTC test in dual-fuel mode (42) (59): …...
3.5.6. Vehicle fitted with an eco-innovation within the meaning of Article...
3.5.6.1. Type/Variant/Version of the baseline vehicle as referred to in Article...
3.5.6.2. Existence of interactions between different eco-innovations: yes/no (4)
3.5.6.3. Emissions data related to the use of eco-innovations (repeat the...
3.5.7. Manufacturer's declared values
3.5.7.1. Test vehicle parameters (1)
3.5.7.1.1. Fuel used for the Type 1 test and selected for...
3.5.7.2. Combined CO2 mass emissions
3.5.7.2.1. CO2 mass emission for pure ICE vehicles and NOVC-HEVs
3.5.7.2.1.0. Minimum and maximum CO2 values within the interpolation family
3.5.7.2.1.1. Vehicle high: … g/km
3.5.7.2.1.1.0. Vehicle high (NEDC): … g/km
3.5.7.2.1.2. Vehicle low (if applicable): … g/km
3.5.7.2.1.2.0. Vehicle low (if applicable) (NEDC): … g/km
3.5.7.2.1.3. Vehicle M (if applicable): … g/km
3.5.7.2.1.3.0. Vehicle M (if applicable) (NEDC): … g/km
3.5.7.2.2. Charge-Sustaining CO2 mass emission for OVC-HEVs
3.5.7.2.2.1. Charge Sustaining CO2 mass emission vehicle high: g/km
3.5.7.2.2.1.0. Combined CO2 mass emission vehicle high (NEDC Condition B): g/km...
3.5.7.2.2.2. Charge Sustaining CO2 mass emission vehicle low (if applicable): g/km...
3.5.7.2.2.2.0. Combined CO2 mass emission vehicle low (if applicable) (NEDC Condition...
3.5.7.2.2.3. Charge Sustaining CO2 mass emission vehicle M (if applicable): g/km...
3.5.7.2.2.3.0. Combined CO2 mass emission vehicle M (if applicable) (NEDC Condition...
3.5.7.2.3. Charge Depleting CO2 mass emission and weighted CO2 mass emission...
3.5.7.2.3.1. Charge Depleting CO2 mass emission of Vehicle high: … g/km...
3.5.7.2.3.1.0. Charge Depleting CO2 mass emission of Vehicle high (NEDC Condition...
3.5.7.2.3.2. Charge Depleting CO2 mass emission of Vehicle low (if applicable):...
3.5.7.2.3.2.0. Charge Depleting CO2 mass emission of Vehicle low (if applicable)...

3.5.7.2.3.3. Charge Depleting CO2 mass emission of Vehicle M (if applicable):...
3.5.7.2.3.3.0. Charge Depleting CO2 mass emission of Vehicle M (if applicable)...
3.5.7.2.3.4. Minimum and maximum weighted CO2 values within the OVC interpolation...
3.5.7.3. Electric range for electrified vehicles
3.5.7.3.1. Pure Electric Range (PER) for PEVs
3.5.7.3.1.1. Vehicle high: … km
3.5.7.3.1.2. Vehicle low (if applicable): … km
3.5.7.3.2. All Electric Range AER for OVC-HEVs
3.5.7.3.2.1. Vehicle high: … km
3.5.7.3.2.2. Vehicle low (if applicable): … km
3.5.7.3.2.3. Vehicle M (if applicable): … km
3.5.7.4. Charge Sustaining fuel consumption (FCCS) for FCHVs
3.5.7.4.1. Vehicle high: … kg/100km
3.5.7.4.2. Vehicle low (if applicable): … kg/100km
3.5.7.5. Electric energy consumption for electrified vehicles
3.5.7.5.1. Combined electric energy consumption (ECWLTC) for Pure electric vehicles
3.5.7.5.1.1. Vehicle high: … Wh/km
3.5.7.5.1.2. Vehicle low (if applicable): … Wh/km
3.5.7.5.2. Utility factor weighted charge-depleting electric consumption ECAC,CD (combined)
3.5.7.5.2.1. Vehicle high: … Wh/km
3.5.7.5.2.2. Vehicle low (if applicable): … Wh/km
3.5.7.5.2.3. Vehicle M (if applicable): … Wh/km
3.5.8. Vehicle fitted with an eco-innovation within the meaning of Article...
3.5.8.1. Type/Variant/Version of the baseline vehicle as referred to in Article...
3.5.8.2. Existence of interactions between different eco-innovations: yes/no (4)
3.5.8.3. Emissions data related to the use of eco-innovations (repeat the...
3.5.9. CO2 emissions and fuel consumption certification (for heavy-duty vehicles, as...
3.5.9.1. Simulation tool license number: …
3.5.9.2. Zero emission heavy-duty vehicle: yes/no (4) (72) (169)
3.5.9.3. Vocational vehicle: yes/no (4) (72) (170)
3.5.10. Declared maximum RDE values (if applicable)
3.6. Temperatures permitted by the manufacturer
3.6.1. Cooling system
3.6.1.1. Liquid cooling
3.6.1.2. Air cooling
3.6.1.2.1. Reference point: …
3.6.1.2.2. Maximum temperature at reference point: …… K
3.6.2. Maximum outlet temperature of the inlet intercooler: …… K
3.6.3. Maximum exhaust temperature at the point in the exhaust pipe(s)...
3.6.4. Fuel temperature
3.6.5. Lubricant temperature
3.6.6. Fuel pressure

3.7. Engine-driven equipment
3.8. Lubrication system
3.8.1. Description of the system
3.8.1.1. Position of lubricant reservoir: …
3.8.1.2. Feed system (by pump/injection into intake/mixing with fuel, etc.) (4)...
3.8.2. Lubricating pump
3.8.2.1. Make(s): …
3.8.2.2. Type(s): …
3.8.3. Mixture with fuel
3.8.3.1. Percentage: …
3.8.4. Oil cooler: yes/no (4)
3.8.4.1. Drawing(s): …… or
3.8.4.1.1. Make(s): …
3.8.4.1.2. Type(s): …
3.8.5. Lubricant specification: … W …
3.9. Hydrogen propulsion
3.9.1. Hydrogen system designed to use liquid hydrogen/Hydrogen system designed to...
3.9.1.1. Description and drawing of the hydrogen system: …
3.9.1.2. Name and address of the manufacturer(s) of the hydrogen system...
3.9.1.3. Manufacturer's system code(s) (as marked on the system, or other...
3.9.1.4. Automatic shut-off valve(s): yes/no (4)
3.9.1.4.1. Make(s): …
3.9.1.4.2. Type(s): …
3.9.1.4.3. Maximum Allowable Working Pressure (MAWP) (4) (41): … MPa
3.9.1.4.4. Nominal working pressure(s) and if downstream of the first pressure...
3.9.1.4.5. Operating temperature (4): …
3.9.1.4.6. Number of filling cycles or duty cycles as appropriate (4):...
3.9.1.4.7. Type-approval certificate number: …
3.9.1.4.8. Material: …
3.9.1.4.9. Operating principles: …
3.9.1.4.10. Description and drawing: …
3.9.1.5. Check valve(s) or non-return valve(s): yes/no (4)
3.9.1.5.1. Make(s): …
3.9.1.5.2. Type(s): …
3.9.1.5.3. Maximum Allowable Working Pressure (MAWP) (4) (41): … MPa
3.9.1.5.4. Nominal working pressure(s) and if downstream of the first pressure...
3.9.1.5.5. Operating temperature (4): …
3.9.1.5.6. Number of filling cycles or duty cycles as appropriate (4):...
3.9.1.5.7. Type-approval certificate number: …
3.9.1.5.8. Material: …
3.9.1.5.9. Operating principles: …
3.9.1.5.10. Description and drawing: …
3.9.1.6. Container(s) and container assembly: yes/no (4)
3.9.1.6.1. Make(s): …
3.9.1.6.2. Type(s): …

3.9.1.6.3. Maximum Allowable Working Pressure (MAWP) (4) (41): … MPa
3.9.1.6.4. Nominal working pressure (4) (41): … MPa
3.9.1.6.5. Number of filling cycles (4): …
3.9.1.6.6. Operating temperature (4): …
3.9.1.6.7. Capacity: … litres
3.9.1.6.8. Type-approval certificate number: …
3.9.1.6.9. Material: …
3.9.1.6.10. Operating principles: …
3.9.1.6.11. Description and drawing: …
3.9.1.7. Fittings: yes/no (4)
3.9.1.7.1. Make(s): …
3.9.1.7.2. Type(s): …
3.9.1.7.3. Nominal working pressure(s) and if downstream of the first pressure...
3.9.1.7.4. Number of filling cycles or duty cycles as appropriate: ….....
3.9.1.7.5. Type-approval certificate number: …
3.9.1.7.6. Material: …
3.9.1.7.7. Operating principles: …
3.9.1.7.8. Description and drawing: …
3.9.1.8. Flexible fuel line(s): yes/no (4)
3.9.1.8.1. Make(s): …
3.9.1.8.2. Type(s): …
3.9.1.8.3. Maximum Allowable Working Pressure (MAWP) (4) (41): … MPa
3.9.1.8.4. Nominal working pressure(s) and if downstream of the first pressure...
3.9.1.8.5. Operating temperature (4): …
3.9.1.8.6. Number of filling cycles or duty cycles as appropriate (4):...
3.9.1.8.7. Type-approval certificate number: …
3.9.1.8.8. Material: …
3.9.1.8.9. Operating principles: …
3.9.1.8.10. Description and drawing: …
3.9.1.9. Heat exchanger(s): yes/no (4)
3.9.1.9.1. Make(s): …
3.9.1.9.2. Type(s): …
3.9.1.9.3. Maximum Allowable Working Pressure (MAWP) (4) (41): … MPa
3.9.1.9.4. Nominal working pressure(s) and if downstream of the first pressure...
3.9.1.9.5. Operating temperature (4): …
3.9.1.9.6. Number of filling cycles or duty cycles as appropriate (4):...
3.9.1.9.7. Type-approval certificate number: …
3.9.1.9.8. Material: …
3.9.1.9.9. Operating principles: …
3.9.1.9.10. Description and drawing: …
3.9.1.10. Hydrogen filter(s): yes/no (4)
3.9.1.10.1. Make(s): …
3.9.1.10.2. Type(s): …
3.9.1.10.3. Nominal working pressure(s) and if downstream of the first pressure...
3.9.1.10.4. Number of filling cycles or duty cycles as appropriate (4):...
3.9.1.10.5. Type-approval certificate number: …

3.9.1.10.6. Material: …
3.9.1.10.7. Operating principles: …
3.9.1.10.8. Description and drawing: …
3.9.1.11. Hydrogen leakage detection sensors: …
3.9.1.11.1. Make(s): …
3.9.1.11.2. Type(s): …
3.9.1.11.3. Maximum Allowable Working Pressure (MAWP) (4) (41): … MPa
3.9.1.11.4. Nominal working pressure(s) and if downstream of the first pressure...
3.9.1.11.5. Operating temperature (4): …
3.9.1.11.6. Number of filling cycles or duty cycles as appropriate (4):...
3.9.1.11.7. Set values: …
3.9.1.11.8. Type-approval certificate number: …
3.9.1.11.9. Material: …
3.9.1.11.10. Operating principles: …
3.9.1.11.11. Description and drawing: …
3.9.1.12. Manual or automatic valve(s): yes/no (4)
3.9.1.12.1. Make(s): …
3.9.1.12.2. Type(s): …
3.9.1.12.3. Maximum Allowable Working Pressure (MAWP) (4) (41): … MPa
3.9.1.12.4. Nominal working pressure(s) and if downstream of the first pressure...
3.9.1.12.5. Operating temperature (4): …
3.9.1.12.6. Number of filling cycles or duty cycles as appropriate (4):...
3.9.1.12.7. Type-approval certificate number: …
3.9.1.12.8. Material: …
3.9.1.12.9. Operating principles: …
3.9.1.12.10. Description and drawing: …
3.9.1.13. Pressure and/or temperature and/or hydrogen and/or flow sensor(s) (4): yes/no...
3.9.1.13.1. Make(s): …
3.9.1.13.2. Type(s): …
3.9.1.13.3. Maximum Allowable Working Pressure (MAWP) (4) (41): … MPa
3.9.1.13.4. Nominal working pressure(s) and if downstream of the first pressure...
3.9.1.13.5. Operating temperature (4): …
3.9.1.13.6. Number of filling cycles or duty cycles as appropriate (4):...
3.9.1.13.7. Set values: …
3.9.1.13.8. Type-approval certificate number: …
3.9.1.13.9. Material: …
3.9.1.13.10. Operating principles: …
3.9.1.13.11. Description and drawing: …
3.9.1.14. Pressure regulator(s): yes/no (4)
3.9.1.14.1. Make(s): …
3.9.1.14.2. Type(s): …
3.9.1.14.3. Number of main adjustment points: …
3.9.1.14.4. Description of principle of adjustment through main adjustment points: …...
3.9.1.14.5. Number of idle adjustment points: …

3.9.1.14.6 Description of principles of adjustment through idle adjustment points: …...
3.9.1.14.7 Other adjustment possibilities: if so and which (description and drawings):...
3.9.1.14.8 Maximum Allowable Working Pressure (MAWP) (4) (41): … MPa
3.9.1.14.9 Nominal working pressure(s) and if downstream of the first pressure...
3.9.1.14.10 Operating temperature (4): …
3.9.1.14.11 Number of filling cycles or duty cycles as appropriate (4):...
3.9.1.14.12 Input and output pressure: …
3.9.1.14.13 Type-approval certificate number: …
3.9.1.14.14 Material: …
3.9.1.14.15 Operating principles: …
3.9.1.14.16 Description and drawing: …
3.9.1.15 Pressure relief device: yes/no (4)
3.9.1.15.1 Make(s): …
3.9.1.15.2 Type(s): …
3.9.1.15.3 Maximum Allowable Working Pressure (MAWP) (4) (41): … MPa
3.9.1.15.4 Operating temperature (4): …
3.9.1.15.5 Set pressure (4): …
3.9.1.15.6 Set temperature (4): …
3.9.1.15.7 Flow off capacity (4): …
3.9.1.15.8 Normal maximum operating temperature (4) (41): … °C
3.9.1.15.9 Nominal working pressure(s) (4) (41): … MPa
3.9.1.15.10 Number of filling cycles (Class 0 components only) (4): …...
3.9.1.15.11 Type-approval certificate number: …
3.9.1.15.12 Material: …
3.9.1.15.13 Operating principles: …
3.9.1.15.14 Description and drawing: …
3.9.1.16 Pressure relief valve: yes/no (4)
3.9.1.16.1 Make(s): …
3.9.1.16.2 Type(s): …
3.9.1.16.3 Nominal working pressure(s) and if downstream of the first pressure...
3.9.1.16.4 Set pressure (4): …
3.9.1.16.5 Number of filling cycles or duty cycles as appropriate (4):...
3.9.1.16.6 Type-approval certificate number: …
3.9.1.16.7 Material: …
3.9.1.16.8 Operating principles: …
3.9.1.16.9 Description and drawing: …
3.9.1.17 Refuelling connection or receptacle: yes/no (4)
3.9.1.17.1 Make(s): …
3.9.1.17.2 Type(s): …
3.9.1.17.3 Maximum Allowable Working Pressure (MAWP) (4) (41): … MPa
3.9.1.17.4 Operating temperature (4): …
3.9.1.17.5 Nominal working pressure(s) (4) (41): … MPa
3.9.1.17.6 Number of filling cycles (Class 0 components only) (4): …...
3.9.1.17.7 Type-approval certificate number: …
3.9.1.17.8 Material: …
3.9.1.17.9 Operating principles: …

3.9.1.17.10. Description and drawing: …
3.9.1.18. Removable storage system connector: yes/no (4)
3.9.1.18.1. Make(s): …
3.9.1.18.2. Type(s): …
3.9.1.18.3. Nominal working pressure(s) and maximum allowable working pressure(s) (41): …...
3.9.1.18.4. Number of duty cycles: …
3.9.1.18.5. Type-approval certificate number: …
3.9.1.18.6. Material: …
3.9.1.18.7. Operating principles: …
3.9.1.18.8. Description and drawing: …
3.9.2. Further documentation
3.9.2.1. Process diagram (flow chart) of the hydrogen system
3.9.2.2. System layout including electrical connections and other external system (inputs...
3.9.2.3. Key to symbols used in documentation
3.9.2.4. Adjustment data of pressure relief devices and pressure regulators
3.9.2.5. Layout of cooling/heating system(s) including Nominal or Maximum Allowable Working...
3.9.2.6. Drawings showing requirements for installation and operation.

4. TRANSMISSION (76)
4.1. Drawing of the transmission: …
4.2. Type (mechanical, hydraulic, electric, etc.): …
4.2.1. A brief description of the electrical/electronic components (if any): …...
4.3. Moment of inertia of engine flywheel: …
4.3.1. Additional moment of inertia with no gear engaged: …
4.4. Clutch(es): …
4.4.1. Type: …
4.4.2. Maximum torque conversion: …
4.5. Gearbox
4.5.1. Type: Manual/Automatic/CVT(continuously variable transmission)/Fixedratio/Automised/Other/Wheel hub (4)
4.5.1.4. Torque rating (for heavy duty vehicles): …
4.5.1.5. Number of clutches: …
4.5.2. Location relative to the engine: …
4.5.3. Method of control: …
4.5.4. Additional gearbox for alternative propulsions: …
4.6. Gear ratios
4.6.1. Gearshift (1)
4.6.1.1. Gear 1 excluded: yes/no (4)
4.6.1.2. n_95_high for each gear: … min–1
4.6.1.3. nmin_drive
4.6.1.3.1. 1st gear: … min–1
4.6.1.3.2. 1st gear to 2nd: … min–1
4.6.1.3.3. 2nd gear to standstill: … min–1
4.6.1.3.4. 2nd gear: … min–1
4.6.1.3.5. 3rd gear and beyond: … min–1
4.6.1.4. n_min_drive_set for acceleration/constant speed phases (n_min_drive_up): … min–1
4.6.1.5. n_min_drive_set for deceleration phases (nmin_drive_down):
4.6.1.6. initial period of time

4.6.1.6.1. t_start_phase: … s
4.6.1.6.2. n_min_drive_start: … min–1
4.6.1.6.3. n_min_drive_up_start: … min–1
4.6.1.7. use of ASM: yes/no (4)
4.6.1.7.1. ASM values: …
4.7. Maximum vehicle design speed (in km/h) (77): …
4.8. Speedometer and odometer
4.8.1. Method of operation and description of drive mechanism: …
4.8.2. Instrument constant: …
4.8.3. Tolerance of the measuring mechanism (pursuant to paragraph 2.2.3 of...
4.8.4. Overall transmission ratio (pursuant to paragraph 2.2.2 of UN Regulation...
4.8.5. Diagram of the speedometer scale or other forms of display:...
4.8.6. The technical constant of odometer (pursuant to paragraph 2.2.4 of...
4.8.7. The number of numerals: …
4.9. Tachograph: yes/no (4)
4.9.1. Approval mark: …
4.10. Differential lock: yes/no/optional (4)
4.11. Gear shift indicator (GSI)
4.11.1. Acoustic indication available yes/no (4). If yes, description of sound...
4.11.2. Information according to point 4.6 of Annex I to Commission...
4.11.3. Photographs and/or drawings of the gear shift indicator instrument and...
4.12. Gearbox lubricant: … W …

5. AXLES
5.1. Description of each axle: …
5.2. Make: …
5.3. Type: …
5.4. Position of retractable axle(s): …
5.5. Position of loadable axle(s): …

6. SUSPENSION
6.1. Drawing of the suspension arrangements: …
6.2. Type and design of the suspension of each axle or...
6.2.1. Level adjustment: yes/no/optional (4)
6.2.2. A brief description of the electrical/electronic components (if any): …...
6.2.3. Air-suspension for driving axle(s): yes/no (4)
6.2.3.1. Suspension of driving axle(s) equivalent to air-suspension: yes/no (4)
6.2.3.2. Frequency and damping of the oscillation of the sprung mass:...
6.2.4. Air-suspension for non-driving axle(s): yes/no (4)
6.2.4.1. Suspension of non-driving axle(s) equivalent to air-suspension: yes/no (4)
6.2.4.2. Frequency and damping of the oscillation of the sprung mass:...
6.3. Characteristics of the springing parts of the suspension (design, characteristics...
6.4. Stabilisers: yes/no/optional (4)
6.5. Shock absorbers: yes/no/optional (4)
6.6. Tyres and wheels
6.6.1. Tyre/wheel combination(s)

6.6.1.1. Axles
6.6.1.1.1 Axle 1: …
6.6.1.1.2 Axle 2: …
6.6.1.2. Spare wheel, if any: …
6.6.2. Upper and lower limits of rolling radii
6.6.2.1. Axle 1: … mm
6.6.2.2. Axle 2: … mm
6.6.2.3. Axle 3: …mm
6.6.2.4. Axle 4: …mm
6.6.3. Tyre pressure(s) as recommended by the vehicle manufacturer: … kPa...
6.6.4. Snow traction device/tyre/wheel combination on the front and/or rear axle...
6.6.5. Brief description of temporary use spare unit (if any): …...

7. STEERING
7.1. Schematic diagram of steered axle(s) showing steering geometry: …
7.2. Transmission and control
7.2.1. Type of steering transmission (specify for front and rear, if...
7.2.2. Linkage to wheels (including other than mechanical means; specify for...
7.2.2.1. A brief description of the electrical/electronic components (if any): …...
7.2.3. Method of assistance (if any): …
7.2.3.1. Method and diagram of operation, make(s) and type(s): …
7.2.4. Diagram of the steering equipment as a whole, showing the...
7.2.5. Schematic diagram(s) of the steering control(s): …
7.2.6. Range and method of adjustment (if any), of the steering...
7.3. Maximum steering angle of the wheels
7.3.1. To the right: … degrees; number of turns of the...
7.3.2. To the left: … degrees; number of turns of the...

8. BRAKES
8.1. Type and characteristics of the brakes including details and drawings...
8.2. Operating diagram, description and/or drawing of the braking system including...
8.2.1. Service braking system: …
8.2.2. Secondary braking system: …
8.2.3. Parking braking system: …
8.2.4. Any additional braking system: …
8.2.5. Break-away braking system: …
8.2.6. Category of regenerative braking system: A/B (4)
8.2.6.1. Description of the regeneration system: …
8.2.6.1.1 Make control unit: …
8.2.6.1.2 Type control unit: …
8.2.6.1.3 Axle the braking system is fitted to: Axle 1/Axle 2/Axle...
8.2.6.1.4 Parameters controlling the brake force: …
8.3. Control and transmission of trailer braking systems in vehicles designed...
8.4. Vehicle is equipped to tow a trailer with electric/pneumatic/hydraulic (4)...
8.5. Anti-lock braking system: yes/no/optional (4)
8.5.1. Make of the ABS unit: …
8.5.2. Type of the ABS unit: …

8.5.3. For vehicles with anti-lock systems, description of system operation (including...
8.6. Calculation and curves according to Annex 10 to UN Regulation...
8.7. Description and/or drawing of the energy supply, also to be...
8.7.1. In the case of compressed-air braking systems, working pressure p2...
8.7.2. In the case of vacuum braking systems, the initial energy...
8.8. Calculation of the braking system: Determination of the ratio between...
8.9. Brief description of the braking system according to paragraph 12...
8.10. If claiming exemptions from the Type I and/or Type II...
8.11. Particulars of the type(s) of endurance braking system(s): …

9. BODYWORK
9.1. Type of bodywork using the codes defined in Part C...
9.2. Materials used and methods of construction: …
9.3. Occupant doors, latches and hinges
9.3.1. Door configuration and number of doors: …
9.3.1.1. Dimensions, direction and maximum angle of opening: …
9.3.2. Drawing of latches and hinges and of their position in...
9.3.3. Technical description of latches and hinges: …
9.3.4. Details, including dimensions, of entrances, steps and necessary handles where...
9.3.5. Electrical/electronic components of the door system: …
9.3.5.1. Brief description of any electrical/electronic components: …
9.3.5.2. Description of electrical/electronic functionality in the door system: …
9.3.5.2.1. Rolling door locks fitted: yes/no/optional (4)
9.4. Field of vision
9.4.1. Particulars of the primary reference marks in sufficient detail to...
9.4.2. Drawing(s) or photograph(s) showing the location of component parts within...
9.5. Windscreen and other windows
9.5.1. Windscreen
9.5.1.1. Materials used: …
9.5.1.2. Method of mounting: …
9.5.1.3. Angle of inclination: …
9.5.1.4. Number(s) of the type-approval certificate(s): …
9.5.1.5. Windscreen accessories and the position in which they are fitted...
9.5.2. Other windows
9.5.2.1. Materials used: …
9.5.2.2. Number(s) of the type-approval certificate(s): …
9.5.2.3. A brief description of the electrical/electronic components (if any) of...
9.5.2.3.1. Description of the auto-reversing system: …
9.5.3. Opening roof glazing
9.5.3.1. Materials used: …
9.5.3.2. Number(s) of the type-approval certificate (s): …
9.5.3.3. A brief description of the electrical/electronic components (if any) of...
9.5.3.3.1. Description of the auto-reversing system: …
9.5.4. Other glass panes
9.5.4.1. Materials used: …

9.5.4.2. Number(s) of the type-approval certificate (s): …
9.6. Windscreen wiper(s)
9.6.1. Detailed technical description (including photographs or drawings): …
9.6.1.1. Dimensions of the wiper arm and wiper blade: …
9.7. Windscreen and headlamp washer
9.7.1. Detailed technical description (including photographs or drawings) or, if approved...
9.8. Defrosting and demisting
9.8.1. Detailed technical description (including photographs or drawings): …
9.8.2. Maximum electrical consumption: … kW
9.9. Devices for indirect vision
9.9.1. Rear-view mirrors, stating for each mirror:
9.9.1.1. Make: …
9.9.1.2. Type-approval mark: …
9.9.1.3. Variant: …
9.9.1.4. Drawing(s) for the identification of the mirror showing the position...
9.9.1.5. Details of the method of attachment including that part of...
9.9.1.6. Optional equipment which may affect the rearward field of vision:...
9.9.1.7. A brief description of the electronic components (if any): …...
9.9.2. Devices for indirect vision other than mirrors: …
9.9.2.1. Type and description of the device: …
9.9.2.1.1. In the case of a camera-monitor device, the detection distance...
9.9.2.1.2. Sufficiently detailed drawings to identify the complete device, including installation...
9.10. Interior arrangement
9.10.1. Interior protection for occupants
9.10.1.1 Layout drawing or photographs showing the position of the attached...
9.10.1.2 Photograph or drawing showing the reference zone including the exempted...
9.10.1.3 Photographs, drawings and/or an exploded view of the interior fittings,...
9.10.2. Arrangement and identification of controls, tell-tales and indicators
9.10.2.1 Photographs and/or drawings of the arrangement of symbols and controls,...
9.10.2.2 Photographs and/or drawings of the identification of controls, tell-tales and...
9.10.3. Seats
9.10.3.1 Number of seating positions (83): …
9.10.3.1.1 Location and arrangement: …
9.10.3.2 Seat(s) designated for use only when the vehicle is stationary:...
9.10.3.3 Mass: …
9.10.3.4 Characteristics: for seats not type-approved as components, description and drawings...
9.10.3.4.1 The seats and their anchorages: …
9.10.3.4.2 The adjustment system: …

9.10.3.4.3 The displacement and locking systems: …
9.10.3.4.4 The seat-belt anchorages (if incorporated in the seat structure): …...
9.10.3.4.5 The parts of the vehicle used as anchorages: …
9.10.3.5 Coordinates or drawing of the R-point (84)
9.10.3.5.1 Driver's seat: …
9.10.3.5.2 All other seating positions: …
9.10.3.6 Design torso angle
9.10.3.6.1 Driver's seat: …
9.10.3.6.2 All other seating positions: …
9.10.3.7 Range of seat adjustment
9.10.3.7.1 Driver's seat: …
9.10.3.7.2 All other seating positions: …
9.10.3.8 Detailed description of the electrical/electronic components (if any) of the...
9.10.3.9 Description of the luggage compartment space if the seat back(s)...
9.10.3.10 Vehicle equipped with a partitioning system: yes/no/optional (4)
9.10.3.10.1 Detailed description of the partitioning system including the mounting to...
9.10.4. Head restraints
9.10.4.1 Type(s) of head restraints: integrated/detachable/separate (4)
9.10.4.2 Number(s) of the type-approval certificate (s), if available: …
9.10.4.3 For head restraints not yet approved
9.10.4.3.1 A detailed description of the head restraint, specifying in particular...
9.10.4.3.1.2 In the case of a 'separate' head restraint
9.10.4.3.2.1 A detailed description of the structural zone to which the...
9.10.4.3.2.2 Dimensional drawings of the characteristic parts of the structure and...
9.10.4.4 Detailed description of the electrical/electronic components (if any) of the...
9.10.5. Heating systems for the passenger compartment
9.10.5.1 A brief description of the vehicle type with regard to...
9.10.5.2 A detailed description of the vehicle type with regard to...
9.10.5.2.1 Layout drawing of the heating system showing its position in...
9.10.5.2.2 Layout drawing of the heat exchanger for heating systems using...
9.10.5.2.3 Sectional drawing of the heat exchanger or the parts respectively...
9.10.5.2.4 Specifications shall be given for further important components of the...
9.10.5.3 A brief description of the vehicle type with regard to...
9.10.5.3.1 Layout drawing of the combustion heater, the air inlet system,...
9.10.5.4 Maximum electrical consumption: …… kW
9.10.6. Components with regard to the protection of the occupants of...
9.10.6.1 A detailed description, including photograph(s) and/or drawing(s), of the vehicle...
9.10.6.2 Photograph(s) and/or drawing(s) of vehicle components other than those described...

9.10.6.3. Other components located in the energy absorption zone of the...
9.10.6.3.1. Description of liquid fuel supply system: …
9.10.6.3.2. Description of high voltage BUS and high voltage components located...
9.10.6.3.3. Description of hydrogen system/components located in the energy absorption zone...
9.10.7. Burning behaviour of materials used in the interior construction of...
9.10.7.1. Material(s) used for the interior lining of the roof
9.10.7.1.1. Number(s) of the component type-approval certificate (s), if available: …...
9.10.7.1.2. For materials not approved
9.10.7.1.3. Base material(s)/designation: ……/……
9.10.7.1.4. Composite/single (4) material, number of layers (4): …
9.10.7.1.5. Type of coating (4): …
9.10.7.1.6. Maximum/minimum thickness: ……/…… mm
9.10.7.2. Material(s) used for the rear and side walls
9.10.7.2.1. Number(s) of the component type-approval certificate (s), if available: …...
9.10.7.2.2. For materials not approved
9.10.7.2.3. Base material(s)/designation: ……/……
9.10.7.2.4. Composite/single (4) material, number of layers (4): …
9.10.7.2.5. Type of coating (4): …
9.10.7.2.6. Maximum/minimum thickness: ……/…… mm
9.10.7.3. Material(s) used for the floor
9.10.7.3.1. Number(s) of the component type-approval certificate (s), if available: …...
9.10.7.3.2. For materials not approved
9.10.7.3.3. Base material(s)/designation: ……/……
9.10.7.3.4. Composite/single (4) material, number of layers (4): …
9.10.7.3.5. Type of coating (4): …
9.10.7.3.6. Maximum/minimum thickness: ……/…… mm
9.10.7.4. Material(s) used for the upholstery of the seats
9.10.7.4.1. Number(s) of the component type-approval certificate (s), if available: …...
9.10.7.4.2. For materials not approved
9.10.7.4.3. Base material(s)/designation: ……/……
9.10.7.4.4. Composite/single (4) material, number of layers (4): …
9.10.7.4.5. Type of coating (4): …
9.10.7.4.6. Maximum/minimum thickness: ……/…… mm
9.10.7.5. Material(s) used for the heating and ventilation pipes
9.10.7.5.1. Numbers of the component type-approval certificate (s), if available: …...
9.10.7.5.2. For materials not approved
9.10.7.5.3. Base material(s)/designation: ……/……..
9.10.7.5.4. Composite/single (4) material, number of layers (4): …
9.10.7.5.5. Type of coating (4): …
9.10.7.5.6. Maximum/minimum thickness: ……/……. Mm
9.10.7.6. Material(s) used for luggage racks
9.10.7.6.1. Number(s) of the component type-approval certificate (s), if available: …...
9.10.7.6.2. For materials not approved

9.10.7.6.2. Base material(s)/designation: ……/……
9.10.7.6.2. Composite/single (4) material, number of layers (4): …
9.10.7.6.3. Type of coating (4): …
9.10.7.6.4. Maximum/minimum thickness: ……/…… mm
9.10.7.7. Material(s) used for other purposes
9.10.7.7.1. Intended purposes: …
9.10.7.7.2. Number(s) of the component type-approval certificate (s), if available: …...
9.10.7.7.3. For materials not approved
9.10.7.7.3. Base material(s)/designation: ……/……
9.10.7.7.3. Composite/single (4) material, number of layers (4): …
9.10.7.7.3. Type of coating (4): …
9.10.7.7.3. Maximum/minimum thickness: …./…. Mm
9.10.7.8. Components approved as complete devices (seats, separation walls, luggage racks,...
9.10.7.8.1. Number(s) of the component type-approval certificate (s): …
9.10.7.8.2. For the complete device: seat, separation wall, luggage racks, etc....
9.10.8. Gas used as refrigerant in the air-conditioning system: …
9.10.8.1. The air-conditioning system is designed to contain fluorinated greenhouse gases...
9.10.8.2. If yes, fill in the following points
9.10.8.2.1. Drawing and brief description of the air-conditioning system, including the...
9.10.8.2.2. Leakage of the air-conditioning system
9.10.8.2.4. Reference or part number and material of the components of...
9.10.8.3. Overall leakage in g/year of the entire system: …

9.11. External projections
- 9.11.1. Photographs of the front, rear and side parts of the...
- 9.11.2. Drawings of the ‘external surface’ to demonstrate compliance with the...
- 9.11.3. Drawings of parts of the external surface in accordance with...
- 9.11.4. Drawing of bumpers: …
- 9.11.5. Drawing of the floor line: …

9.12. Safety belts and/or other restraint systems
- 9.12.1. Number and position of safety belts and restraint systems and...
- 9.12.2. Nature and position of supplementary restraint systems (indicate yes/no/optional)
- 9.12.3. Number and position of safety belt anchorages and proof of...
- 9.12.4. A brief description of the electrical/electronic components (if any): …...
- 9.12.5. Description of the seat belt reminder system: …

9.13. Safety belt anchorages
- 9.13.1. Photographs and/or drawings of the bodywork showing the position and...
- 9.13.2. Drawings of the belt anchorages and parts of the vehicle...
- 9.13.3. Designation of the types (88) of safety belt authorised for...
- 9.13.4. Description of a particular type of safety belt where an...

9.14. Space for mounting rear registration plates (give range where appropriate,...
- 9.14.1. Height above road surface, upper edge: …
- 9.14.2. Height above road surface, lower edge: …

- 9.14.3. Distance of the centre line from the longitudinal median plane...
- 9.14.4. Distance from the left vehicle edge: …
- 9.14.5. Dimensions (length × width): …
- 9.14.6. Inclination of the plane to the vertical: …
- 9.14.7. Angle of visibility in the horizontal plane: …

9.15. Rear under-run protection
- 9.15.0. Presence: yes/no/incomplete (4)
- 9.15.1. Drawing of the vehicle parts relevant to the rear under-run...
- 9.15.2. In case of a special device, full description and/or drawing...

9.16. Wheel guards
- 9.16.1. Brief description of the vehicle with regard to its wheel...
- 9.16.2. Detailed drawings of the wheel guards and their position on...

9.17. Statutory plates
- 9.17.1. Photographs and/or drawings of the locations of the statutory plates...
- 9.17.2. Photographs and/or drawings of the statutory plate and inscriptions (completed...
- 9.17.3. Photographs and/or drawings of the vehicle identification number (completed example...
- 9.17.4. Manufacturer's declaration of compliance with Part B of Annex I...
- 9.17.4.1. The meaning of characters in the vehicle descriptor section (VDS)...
- 9.17.4.2. If characters in the vehicle descriptor second section are used...

9.18. Radio interference/electromagnetic compatibility
- 9.18.1. Description and drawings/photographs of the shapes and constituent materials of...
- 9.18.2. Drawings or photographs of the position of metal components housed...
- 9.18.3. Table and drawing of radio-interference control equipment: …
- 9.18.4. Particulars of the nominal value of the direct current resistance,...

9.19. Lateral protection
- 9.19.0. Presence: yes/no/incomplete (4)
- 9.19.1. Drawing of the vehicle parts relevant to the lateral protection,...
- 9.19.2. In the case of lateral protection device(s), full description and/or...

9.20. Spray-suppression system
- 9.20.0. Presence: yes/no/incomplete (4)
- 9.20.1. Brief description of the vehicle with regard to its spray-suppression...
- 9.20.2. Detailed drawings of the spray-suppression system and its position on...
- 9.20.3. Number(s) of the type-approval certificate(s) of spray-suppression device(s), if available:...

9.21. Side-impact resistance
- 9.21.1. A detailed description, including photographs and/or drawings, of the vehicle...

9.22. Front under-run protection
- 9.22.0. Presence: yes/no/incomplete (4)
- 9.22.1. Drawing of the vehicle parts relevant to the front under-run...
- 9.22.2. In the case of special device, full description and/or drawing...

9.23. Pedestrian protection
9.23.1. A detailed description, including photographs and/or drawings, of the vehicle...
9.24. Frontal protection systems
9.24.1. General arrangement (drawings or photographs) indicating the position and attachment...
9.24.2. Drawings and/or photographs, where relevant, of air intake grilles, radiator...
9.24.3. Complete details of fittings required and full instructions, including torque...
9.24.4. Drawing of bumpers:
9.24.5. Drawing of the floor line at the vehicle front end:...
9.25. Aerodynamic device or equipment
9.25.1. Detailed technical description (including photographs or drawings, as well as...
9.26. Aerodynamic device or equipment on the front of the vehicle...
9.26.1. Vehicle equipped with aerodynamic device or equipment on the front:...
9.26.2. Number of the type-approval certificate of the aerodynamic device or...
9.26.3. Detailed description (including photographs or drawings) of the aerodynamic device...
9.26.3.1 Construction and materials: …
9.26.3.2 Locking and adjustment system: …
9.26.3.3 Attachment and mounting to the vehicle: …
9.27. Aerodynamic device or equipment on the rear of the vehicle...
9.27.1. Vehicle equipped with aerodynamic device or equipment on the rear:...
9.27.2. Number of the type-approval certificate of the aerodynamic device or...
9.27.3. Detailed description (including photographs or drawings) of the aerodynamic device...
9.27.3.1 Construction and materials: …
9.27.3.2 Locking and adjustment system: …
9.27.3.3 Attachment and mounting to the vehicle: …
10. LIGHTING AND LIGHT SIGNALLING DEVICES
10.1. Table of all devices: number, make, model, type-approval mark, maximum...
10.2. Drawing of the position of lighting and light signalling devices:...
10.3. For every lamp and reflector specified in UN Regulation No...
10.3.1. Drawing showing the extent of the illuminating surface: …
10.3.2. Method used for the definition of the apparent surface in...
10.3.3. Axis of reference and centre of reference: …
10.3.4. Method of operation of concealable lamps: …
10.3.5. Any specific mounting and wiring provisions: …
10.4. Dipped beam lamps: normal orientation in accordance to paragraph 6.2.6.1...
10.4.1. Value of initial adjustment: …
10.4.2. Location of indication: …
10.5. A brief description of electrical/electronic components other than lamps (if...
11. CONNECTIONS BETWEEN TOWING VEHICLES AND TRAILERS AND SEMI-TRAILERS

11.1. Class and type of the coupling device(s) fitted or to...
11.2. Characteristics D, U, S and V of the coupling device(s)...
11.3. Instructions for attachment of the coupling type to the vehicle...
11.4. Information of the fitting of special towing brackets or mounting...
11.5. Number(s) of the type-approval certificate(s): …

12. MISCELLANEOUS
12.1. Audible warning device(s)
12.1.1. Location, method of affixing, placement and orientation of the device(s),...
12.1.2. Number of device(s): …
12.1.3. Number(s) of the type-approval certificate (s): …
12.1.4. Electrical/pneumatic (4) circuit diagram: …
12.1.5. Rated voltage or pressure: …
12.1.6. Drawing of the mounting device: …
12.2. Devices to prevent unauthorised use of the vehicle
12.2.1. Protective device
12.2.1.1 A detailed description of the vehicle type with regard to...
12.2.1.2 Drawings of the protective device and of its mounting on...
12.2.1.3 A technical description of the device: …
12.2.1.4 Details of the lock combinations used: …
12.2.1.5 Vehicle immobiliser
12.2.1.5.1 Number of the type-approval certificate, if available: …
12.2.1.5.2 For immobilisers not yet approved
12.2.1.5.2.1 A detailed technical description of the vehicle immobiliser and of...
12.2.1.5.2.2 The system(s) on which the vehicle immobiliser acts: …
12.2.1.5.2.3 Number of effective interchangeable codes, if applicable: …
12.2.2. Alarm system (if any)
12.2.2.1 Number of the type-approval certificate, if available: …
12.2.2.2 For alarm systems not yet approved
12.2.2.2.1 A detailed description of the alarm system and of the...
12.2.2.2.2 A list of the main components comprising the alarm system:...
12.2.3. A brief description of the electrical/electronic components (if any): …...
12.3. Towing device(s)
12.3.1. Front: Hook/eye/other (4)
12.3.2. Rear: Hook/eye/other/none (4)
12.3.3. Drawing or photograph of the chassis/area of the vehicle body...
12.4. Details of any non-engine related devices designed to influence fuel...
12.5. Details of any non-engine related devices designed to reduce noise...
12.6. Speed limitation devices
12.6.1. Manufacturer(s): …
12.6.2. Type(s): …
12.6.3. Number(s) of the type-approval certificate (s), if available: …
12.6.4. Speed or range of speeds at which the speed limitation...
12.7. Table of installation and use of RF transmitters in the...
Appendix 1
Appendix 2
Appendix 3
Appendix 4
12.7.1. Vehicle equipped with a 24 GHz short-range radar equipment: yes/no...
12.8. eCall system
12.8.1. Presence: yes/no (4)

12.8.2. Technical description and drawings of the device or type-approval certificate...
12.9. Acoustic Vehicle Alerting System (AVAS)
12.9.1. The number of the approval certificate issued on the basis...
12.9.2. Complete reference to the test results of AVAS sound emission...
12.10. Devices or systems with driver selectable modes which influence CO2...
12.10.1. Charge sustaining test (if applicable) (state for each device or...
12.10.1.1. Best case mode: …
12.10.1.2. Worst case mode: …
12.10.2. Charge depleting test (if applicable) (state for each device or...
12.10.2.1. Best case mode: …
12.10.2.2. Worst case mode: …
12.10.3. Type 1 test (if applicable) (state for each device or...
12.10.3.1. Best case mode: …
12.10.3.2. Worst case mode: …

13. SPECIAL PROVISIONS FOR BUSES AND COACHES
13.1. Class of vehicle: Class I/Class II/Class III/Class A/Class B (4)...
13.1.1. Number of the type-approval certificate of bodywork approved as a...
13.1.2. Chassis types where the type-approved bodywork can be installed (manufacturer(s),...
13.2. Area for passengers (m2)
13.2.1. Total (S0): …
13.2.2. Upper deck (S0a) (4): …
13.2.3. Lower deck (S0b) (4): …
13.2.4. For standing passengers (S1): …
13.3. Number of passengers (seated and standing)
13.3.1. Total (N): …
13.3.2. Upper deck (Na) (4): …
13.3.3. Lower deck (Nb) (4): …
13.4. Number of passengers seated
13.4.1. Total (A): …
13.4.2. Upper deck (Aa) (4): …
13.4.3. Lower deck (Ab) (4): …
13.4.4. Number of wheelchair user accessible positions: …
13.5. Number of service doors: …
13.6. Number of emergency exits (doors, windows, escape hatches, intercommunication staircase...
13.6.1. Total: …
13.6.2. Upper deck (4): …
13.6.3. Lower deck (4): …
13.7. Volume of luggage compartments (m3): …
13.8. Area of luggage transportation on the roof (m2): …
13.9. Technical devices facilitating the access to vehicles (e.g. ramp, lifting...
13.10. Strength of superstructure
13.10.1. Number of the type-approval certificate, if available: …
13.10.2. For superstructures not yet approved
13.10.2.1. Detailed description of the superstructure of the vehicle type including...
13.10.2.2. Drawings of the vehicle and those parts of its interior...
13.10.2.3. Position of centre of gravity of the vehicle in running...

ANNEX II

TEMPLATE FOR AN INFORMATION DOCUMENT FOR THE PURPOSES OF GB WHOLE-VEHICLE STEP-BY-STEP TYPE-APPROVAL

The information documents referred to in Regulation (EU) 2018/858 in...
Make sure that drawings or pictures show sufficient details distinctly...

PART I

A. Categories M and N

0. GENERAL

0.1. Make (trade name of manufacturer): …

0.2. Type: …

0.2.1. Commercial name(s) (if available): …

0.2.2. For multi-stage approved vehicles, type-approval information of the base/previous stage...

0.2.2.1. Allowed Parameter Values for multistage type approval to use the...

0.2.3. Identifiers (1):

0.2.3.1. Interpolation family's identifier: …

0.2.3.2. ATCT family's identifier: …

0.2.3.3. PEMS family's identifier: …

0.2.3.4. Roadload family's identifier

0.2.3.4.1. Roadload family of VH: …

0.2.3.4.2. Roadload family of VL: …

0.2.3.4.3. Roadload families applicable in the interpolation family: …

0.2.3.5. Roadload Matrix family's identifier: …

0.2.3.6. Periodic regeneration family's identifier: …

0.2.3.7. Evaporative test family's identifier: …

0.2.3.8. OBD family's identifier: …

0.2.3.9. Other family's identifier: …

0.3. Means of identification of type, if marked on the vehicle...

0.3.1. Location of that marking: …

0.4. Category of vehicle (3): …

0.4.1. Classification(s) according to the dangerous goods which the vehicle is...

0.5. Company name and address of manufacturer: …

0.5.1. For multi-stage approved vehicles, company name and address of the...

0.8. Name(s) and address(es) of assembly plant(s): …

0.9. Name and address of the manufacturer's representative (if any): …...

1. GENERAL CONSTRUCTION CHARACTERISTICS OF THE VEHICLE

1.1. Photographs and/or drawings of a representative vehicle: …

1.3. Number of axles: … and wheels (5): …

1.3.1. Number and position of axles with twin wheels: …

1.3.2. Number and position of steered axles: …

1.3.3. Powered axles (number, position, interconnection): …

1.4. Chassis (if any) (overall drawing – shortest and longest wheelbase):...

1.6. Position and arrangement of the engine: …

1.8. Hand of drive: left/right (4)

1.8.1. Vehicle is equipped to be driven in right/left (4) hand...

1.9. Specify if the towing vehicle is intended to tow semi-trailers...

1.10. Specify if the vehicle is specially designed for the controlled-temperature...

1.11. Specify if the vehicle is non-automated/automated/fully automated (4) (8)

2. MASSES AND DIMENSIONS (9) (10) (11)

2.1. Wheelbase(s) (fully loaded) (12):

2.1.1. Two-axle vehicles: …

2.1.2. Vehicles with three or more axles

2.1.2.1. Axle spacing between consecutive axles going from the foremost to...

2.1.2.2. Total axle spacing (13): …
2.3.1. Track of each steered axle (17): …
2.3.2. Track of all other axles (17): …
2.4. Range of vehicle dimensions (overall)
2.4.1. For chassis without bodywork
2.4.1.1. Length (18): …
2.4.1.1.1 Maximum permissible length: …
2.4.1.1.2 Minimum permissible length: …
2.4.1.2. Width (20): …
2.4.1.2.1 Maximum permissible width: …
2.4.1.2.2 Minimum permissible width: …
2.4.1.3. Height (in running order) (21) (for suspensions adjustable for height,...
2.4.1.3.1 Maximum permissible height (22): …
2.4.2. For chassis with bodywork
2.4.2.1. Length (18): …
2.4.2.1.1 Length of the loading area: …
2.4.2.1.3 Elongated cab complying with Article 9a of Directive 96/53/EC: yes/ no...
2.4.2.2. Width (20): …
2.4.2.2.1 Thickness of the walls (in the case of vehicles designed...
2.4.2.3. Height (in running order) (21) (for suspensions adjustable for height,...
2.5. Minimum mass on the steering axle(s) for incomplete vehicles: …...
2.6. Mass in running order (30)
2.6.1. Distribution of this mass among the axles and, in the...
2.6.2. Mass of the optional equipment (as defined in point (5)...
2.6.4. Additional mass for alternative propulsion: …kg
2.6.5. List of equipment to for alternative propulsion (and indication of...
2.7. Minimum mass of the completed vehicle as stated by the...
2.8. Technically permissible maximum laden mass stated by the manufacturer (32)...
2.8.1. Distribution of this mass among the axles and, in the...
2.9. Technically permissible maximum mass on each axle: …
2.10. Technically permissible mass on each group of axles: …
2.11. Technically permissible maximum towable mass of the towing vehicle
2.11.1. Drawbar trailer: …
2.11.2. Semi-trailer: …
2.11.3. Centre-axle trailer: …
2.11.4. Rigid drawbar trailer: …
2.11.5. Technically permissible maximum laden mass of the combination (33): …...
2.11.6. Maximum mass of unbraked trailer: …
2.12. Technically permissible maximum mass at the coupling point:
2.12.1. of a towing vehicle: …
2.12.2. of a semi-trailer, a centre-axle trailer or a rigid drawbar...
2.16. Registration/in service maximum permissible masses, vehicle categories M2, M3, N2,...
2.16.1. Registration/in service maximum permissible laden mass: …
2.16.2. Registration/in service maximum permissible mass on each axle and, in...
2.16.3. Registration/in service maximum permissible mass on each group of axles:...
2.16.4. Registration/in service maximum permissible towable mass: …

2.16.5. Registration/in service maximum permissible mass of the combination: …
2.17. Vehicle submitted to multi-stage type-approval (only in the case of...
2.17.1. Mass of the base vehicle in running order: … kg....
2.17.2. Default added mass, calculated in accordance with Section 5 of...

3. PROPULSION ENERGY CONVERTER (38)
3.1. Manufacturer of the propulsion energy converter(s): …
3.1.1. Manufacturer's code (as marked on the propulsion energy converter or...
3.1.2. Number of the approval certificate (where appropriate), including fuel identification...
3.2. Internal combustion engine
3.2.1.1. Working principle: positive ignition/compression ignition/dual- fuel(
3.2.1.1.1. Type of dual-fuel engine: Type 1A/Type 1B/Type 2A/Type 2B/Type 3B...
3.2.1.1.2. Gas Energy Ratio over the hot part of the WHTC...
3.2.1.2. Number and arrangement of cylinders: …
3.2.1.3. Engine capacity (40): …… cm3
3.2.1.6. Normal engine idling speed (41): …… min-1
3.2.1.6.2. Idle on diesel: yes/no (4) (42)
3.2.1.8. Maximum net power (43): … kW at … min–1 (manufacturer's...
3.2.1.11. (Euro VI only) Manufacturer references of the Documentation package required...
3.2.2.1. Diesel/Petrol/LPG/NG or Biomethane/Ethanol (E 85)/Biodiesel/ Hydrogen (4) (45)
3.2.2.2. Heavy duty vehicles Diesel/Petrol/LPG/NG-H/NG-L/NG-HL/Ethanol (ED95)/Ethanol (E85)/LNG/LNG20 (4) (45)
3.2.2.2.1. (Euro VI only) Fuels compatible with use by the engine...
3.2.2.4. Vehicle fuel type: Mono fuel, Bi fuel, Flex fuel, Dual...
3.2.2.5. Maximum amount of biofuel acceptable in fuel (manufacturer's declared value):...
3.2.3. Fuel tank(s)
3.2.3.1. Service fuel tank(s)
3.2.3.1.1. Number and capacity of each tank: …
3.2.3.2. Reserve fuel tank(s)
3.2.3.2.1. Number and capacity of each tank: …
3.2.4. Fuel feed
3.2.4.1. By carburettor(s): yes/no (4)
3.2.4.2. By fuel injection (compression ignition or dual-fuel only): yes/no (4)...
3.2.4.2.2. Working principle: direct injection/pre-chamber/swirl chamber (4)
3.2.4.3. By fuel injection (positive ignition only): yes/no (4)
3.2.7. Cooling system: liquid/air (4)
3.2.8. Intake system
3.2.8.1. Pressure charger: yes/no (4)
3.2.8.2. Intercooler: yes/no (4)
3.2.8.3.1. (Euro VI only) Actual Intake system depression at rated engine...
3.2.9. Exhaust system
3.2.9.2.1. (Euro VI only) Description and/or drawing of the elements of...
3.2.9.3.1. (Euro VI only) Actual exhaust back pressure at rated engine...
3.2.9.4. Type, marking of exhaust silencer(s): …
3.2.9.5. Location of the exhaust outlet: …

3.2.9.7.1. (Euro VI only) Acceptable Exhaust system volume: … dm3
3.2.12. Measures taken against air pollution
3.2.12.1. (Euro VI only) Device for recycling crankcase gases: yes/no (41)...
3.2.12.2. Pollution control devices (if not covered by another heading)
3.2.12.2.1. Catalytic converter
3.2.12.2.2. Oxygen sensor: yes/no (4)
3.2.12.2.3. Air injection: yes/no (4)
3.2.12.2.4. Exhaust gas recirculation (EGR): yes/no (4)
3.2.12.2.5. Evaporative emissions control system (petrol and ethanol engines only): yes/no...
3.2.12.2.6. Particulate trap (PT): yes/no (4)
3.2.12.2.7. Other systems: yes/no (4)
3.2.12.2.8. Description and operation
3.2.12.2.9. On-board-diagnostic (OBD) system: yes/no (4)
3.2.12.2.10. (Euro VI only) Number of OBD engine families within the...
3.2.12.2.11. (Euro VI only) List of the OBD engine families (when...
3.2.12.2.12. (Euro VI only) Number of the OBD engine family the...
3.2.12.2.13. (Euro VI only) Manufacturer references of the OBD-Documentation required by...
3.2.12.2.14. (Euro VI only) When appropriate, manufacturer reference of the documentation...
3.2.12.2.15. (Euro VI only) When appropriate, manufacturer reference of the documentation...
3.2.12.2.16. Written description and/or drawing of the MI (46): …
3.2.12.2.17. Written description and/or drawing of the OBD off-board communication interface...
3.2.12.2.18. (Euro VI only) OBD Communication protocol standard (47):
3.2.12.2.19. (Euro VI only) Manufacturer reference of the OBD related information...
3.2.12.2.20. As an alternative to a manufacturer reference provided in point...
3.2.12.2.21. (EURO VI only) OBD components on-board the vehicle
3.2.12.2.21.1. List of OBD components on-board the vehicle
3.2.12.2.22. Written description and/or drawing of the MI (48)
3.2.12.2.23. Written description and/or drawing of the OBD off-board communication interface...
3.2.12.3. Other system
3.2.12.3.1. (Euro VI only) Systems to ensure the correct operation of...
3.2.12.3.2. Driver inducement system
3.2.12.3.2.1. (Euro VI only) Engine with permanent deactivation of the driver...
3.2.12.3.2.2. Activation of the creep mode ‘disable after restart’/‘disable after fuelling’/‘disable...
3.2.12.3.3. (Euro VI only) Number of OBD engine families within the...
3.2.12.3.4. (Euro VI only) List of the OBD engine families (when...
3.2.12.3.5. (Euro VI only) Number of the OBD engine family the...
3.2.12.3.6. (Euro VI only) Lowest concentration of the active ingredient present...
3.2.12.3.7. (Euro VI only) When appropriate, manufacturer reference of the Documentation...
3.2.12.3.8. (Euro VI only) Components on-board the vehicle of the systems...
3.2.12.3.8.1. List of components on-board the vehicle of the systems ensuring...
3.2.12.3.8.2. When appropriate, manufacturer reference of the documentation package related to...
3.2.12.3.8.3. Written description and/or drawing of the warning signal (48)
3.2.12.3.9. Torque limiter: yes/no (4)

3.2.12.2.Periodically regenerating system: (provide the information below for each separate...
3.2.12.2.1. Method or system of regeneration, description and/or drawing: ….
3.2.12.2.1.1. Type and concentration of reagent needed: …
3.2.13.1. Location of the absorption coefficient symbol (compression ignition engines only):...
3.2.15. LPG fuelling system: yes/no (4)
3.2.16. NG fuelling system: yes/no (4)
3.2.17.8.(Euro VI only) Self adaptive feature? yes/no (4)
3.2.17.8.(Euro VI only) Calibration for a specific gas composition NG-H/NG-L/NG-HL/LNG...
3.3. Electric machine (describe information of each type of electric machine...
3.3.1. Type (winding, excitation): …
3.3.1.1.1. Maximum net power (43) … kW
3.3.1.1.2. Maximum 30 minutes power (43) … kW
3.3.1.2. Operating voltage: …… V
3.3.2. REESS
3.3.2.4. Position: …
3.4. Combinations of propulsion energy converters
3.4.1. Hybrid electric vehicle: yes/no (4)
3.4.2. Category of hybrid electric vehicle: off-vehicle charging/not off-vehicle charging: (4)...
3.4.3.1.1. Pure electric: yes/no (4)
3.5.9. CO2 emissions and fuel consumption certification (for heavy-duty vehicles, as...
3.5.9.1. Simulation tool licence number: …
3.5.9.2. Zero emission heavy-duty vehicle: yes/no (4) (72) (169)
3.5.9.3. Vocational vehicle: yes/no (4) (72) (170)
3.5.10. Declared maximum RDE values (if applicable)
3.6.5. Lubricant temperature

4. TRANSMISSION(76)
4.2. Type (mechanical, hydraulic, electric, etc.): …
4.5. Gearbox
4.5.1. Type: Manual/Automatic/CVT(continuously variable transmission)/ Fixed ratio/Automised/Other/Wheel hub (4)
4.6. Gear ratios
4.7. Maximum vehicle design speed (in km/h) (77): …
4.9. Tachograph: yes/no (4)
4.9.1. Approval mark: …
4.11. Gear shift indicator (GSI)
4.11.1. Acoustic indication available yes/no (4)
4.11.2. Information according to point 4.6 of Annex I to Commission...

5. AXLES
5.1. Description of each axle: …
5.2. Make: …
5.3. Type: …
5.4. Position of retractable axle(s): …
5.5. Position of loadable axle(s): …

6. SUSPENSION
6.2. Type and design of the suspension of each axle or...
6.2.1. Level adjustment: yes/no/optional (4)
6.2.3. Air-suspension for driving axle(s): yes/no (4)

6.2.3.1. Suspension of driving axle equivalent to air-suspension: yes/no (4)
6.2.4. Air-suspension for non-driving axle(s): yes/no (4)
6.2.4.1. Suspension of non-driving axle(s) equivalent to air-suspension: yes/no (4)
6.6.1. Tyre/wheel combination(s)
6.6.1.1. Axles
6.6.1.1.1 Axle 1: …
6.6.1.1.2 Axle 2: …
6.6.1.2. Spare wheel, if any: …
6.6.2. Upper and lower limits of rolling radii
6.6.2.1. Axle 1: …
6.6.2.2. Axle 2: …

7. STEERING
7.2. Transmission and control
7.2.1. Type of steering transmission (specify for front and rear, if...
7.2.2. Linkage to wheels (including other than mechanical means; specify for...
7.2.3. Method of assistance, if any: …

8. BRAKES
8.5. Anti-lock braking system: yes/no/optional (4)
8.9. Brief description of the braking system according to paragraph 12...
8.11. Particulars of the type(s) of endurance braking system(s): …

9. BODYWORK
9.1. Type of bodywork using the codes defined in Part C...
9.3. Occupant doors, latches and hinges
9.3.1. Door configuration and number of doors: …
9.9. Devices for indirect vision
9.9.1. Rear-view mirrors, stating, for each rear-view mirror:
9.9.1.1. Make: …
9.9.1.2. Type-approval mark: …
9.9.1.3. Variant: …
9.9.1.6. Optional equipment which may affect the rearward field of vision:...
9.9.2. Devices for indirect vision other than mirrors: …
9.9.2.1. Type and description of the device: …
9.10. Interior arrangement
9.10.3. Seats
9.10.3.1 Number of seating positions (83): …
9.10.3.1 Location and arrangement: …
9.10.3.2 Seat(s) designated for use only when the vehicle is stationary:...
9.10.8. Gas used as refrigerant in the air-conditioning system: …
9.10.8.1 The air-conditioning system is designed to contain fluorinated greenhouse gases...
9.12.2. Nature and position of supplementary restraint systems (indicate yes/no/optional):
9.17. Statutory plates
9.17.1. Photographs and/or drawings of the locations of the statutory plates...
9.17.2. Photographs and/or drawings of the statutory plate and inscriptions (completed...
9.17.3. Photographs and/or drawings of the vehicle identification number (completed example...
9.17.4.1 The meaning of characters in the vehicle descriptor section (VDS)...
9.17.4.2 If characters in the vehicle descriptor second section are used...
9.22. Front under-run protection

9.22.0. Presence: yes/no/incomplete (4)
9.23. Pedestrian protection
9.23.1. A detailed description, including photographs and/or drawings, of the vehicle...
9.24. Frontal protection systems
9.24.1. General arrangement (drawings or photographs) indicating the position and attachment...
9.24.3. Complete details of fittings required and full instructions, including torque...

11. CONNECTIONS BETWEEN TOWING VEHICLES AND TRAILERS AND SEMI-TRAILERS
11.1. Class and type of the coupling device(s) fitted or to...
11.3. Instructions for attachment of the coupling type to the vehicle...
11.4. Information of the fitting of special towing brackets or mounting...
11.5. Number(s) of the type-approval certificate(s): …

12. MISCELLANEOUS
12.7.1. Vehicle equipped with a 24 GHz short-range radar equipment: yes/no...
12.8. eCall system
12.8.1. Presence: yes/no (4)
12.9. Acoustic Vehicle Alerting System (AVAS)
12.9.1. The number of the approval certificate issued on the basis...
12.9.2. Complete reference to the test results of AVAS sound emission...

13. SPECIAL PROVISIONS FOR BUSES AND COACHES
13.1. Class of vehicle: Class I/Class II/Class III/Class A/Class B (4)...
13.1.2. Chassis types where the type-approved bodywork can be installed (manufacturer(s),...
13.3. Number of passengers (seated and standing)
13.3.1. Total (N): …
13.3.2. Upper deck (Na) (4): …
13.3.3. Lower deck (Nb) (4): …
13.4. Number of passengers (seated)
13.4.1. Total (A): …
13.4.2. Upper deck (Aa) (4): …
13.4.3. Lower deck (Ab) (4): …
13.4.4. Number of wheelchair user accessible position: …

16. ACCESS TO VEHICLE REPAIR AND MAINTENANCE INFORMATION
16.1. Address of principal website for access to vehicle repair and...

B. Category O

0. GENERAL
0.1. Make (trade name of manufacturer): …
0.2. Type: …
0.2.1. Commercial name(s) (if available): …
0.3. Means of identification of type, if marked on the vehicle...
0.3.1. Location of that marking: …
0.4. Category of vehicle (3): …
0.4.1. Classification(s) according to the dangerous goods which the vehicle is...
0.5. Company name and address of manufacturer: …
0.8. Name(s) and address(es) of assembly plant(s): …
0.9. Name and address of the manufacturer's representative (if any): …...

1. GENERAL CONSTRUCTION CHARACTERISTICS OF THE VEHICLE
1.1. Photographs and/or drawings of a representative vehicle: …

1.3. Number of axles: … and wheels (5): …
1.3.1. Number and position of axles with twin wheels: …
1.3.2. Number and position of steered axles: …
1.4. Chassis (if any) (overall drawing): …
1.9. Specify if the towing vehicle is intended to tow semi-trailers...
1.10. Specify if the vehicle is specially designed for the controlled-temperature...

2. MASSES AND DIMENSIONS (9) (10) (11)
2.1. Wheelbase(s) (fully loaded) (12):
2.1.1. Two-axle vehicles: …
2.1.2. Vehicles with three or more axles
2.1.2.1. Axle spacing between consecutive axles going from the foremost to...
2.1.2.2. Total axle spacing (13): …
2.3.1. Track of each steered axle (17): …
2.3.2. Track of all other axles (17): …
2.4. Range of vehicle dimensions (overall)
2.4.1. For chassis without bodywork
2.4.1.1. Length (18): …
2.4.1.1.1. Maximum permissible length: …
2.4.1.1.2. Minimum permissible length: …
2.4.1.1.3. In the case of trailers, maximum permissible drawbar length (19):...
2.4.1.2. Width (20): …
2.4.1.2.1. Maximum permissible width: …
2.4.1.2.2. Minimum permissible width: …
2.4.2. For chassis with bodywork
2.4.2.1. Length (18): …
2.4.2.1.1. Length of the loading area: …
2.4.2.1.2. In the case of trailers, maximum permissible drawbar length (19):...
2.4.2.2. Width (20): …
2.4.2.2.1. Thickness of the walls (in the case of vehicles designed...
2.4.2.3. Height (in running order) (21) (for suspension adjustable for height,...
2.6. Mass in running order (30)
2.6.1. Distribution of this mass among the axles and, in the...
2.6.2. Mass of the optional equipment (as defined in point (5)...
2.7. Minimum mass of the completed vehicle as stated by the...
2.8. Technically permissible maximum laden mass stated by the manufacturer (32)...
2.8.1. Distribution of this mass among the axles, and in the...
2.9. Technically permissible maximum mass on each axle: …
2.10. Technically permissible mass on each group of axles: …
2.12. Technically permissible maximum mass at the coupling point:
2.12.2. Of a semi-trailer, a centre-axle trailer or a rigid drawbar...
2.16. Registration/in service maximum permissible masses (optional)
2.16.1. Registration/in service maximum permissible laden mass: …
2.16.2. Registration/in service maximum permissible mass on each axle and, in...
2.16.3. Registration/in service maximum permissible mass on each group of axles:...
2.16.4. Intended registration/in service maximum permissible towable mass (several entries possible...

4. TRANSMISSION
4.7. Maximum vehicle design speed (in km/h) (77): …

5. AXLES

5.1. Description of each axle: …
5.2. Make: …
5.3. Type: …
5.4. Position of retractable axle(s): …
5.5. Position of loadable axle(s): …
6. SUSPENSION
6.2. Type and design of the suspension of each axle or...
6.2.1. Level adjustment: yes/no/optional (4)
6.2.4. Air-suspension for non-driving axle(s): yes/no (4)
6.2.4.1. Suspension of non-driving axle(s) equivalent to air-suspension: yes/no (4)
6.6.1. Tyre/wheel combination(s)
6.6.1.1. Axles
6.6.1.1.1 Axle 1: …
6.6.1.1.2 Axle 2: …
6.6.1.2. Spare wheel, if any: …
6.6.2. Upper and lower limit of rolling radii
6.6.2.1. Axle 1: …
6.6.2.2. Axle 2: …
7. STEERING
7.2. Transmission and control
7.2.1. Type of steering transmission (specify for front and rear, if...
7.2.2. Linkage to the wheels (including other than mechanical means; specify...
7.2.3. Method of assistance, if any: …
8. BRAKES
8.5. Antilock braking system: yes/no/optional (4)
8.9. Brief description of the braking system, according to paragraph 12...
9. BODYWORK
9.1. Type of bodywork using the codes defined in Part C...
9.17. Statutory plates
9.17.1. Photographs and/or drawings of the locations of the statutory plates...
9.17.2. Photographs and/or drawings of the statutory plate and inscriptions (completed...
9.17.3. Photographs and/or drawings of the vehicle identification number (completed example...
9.17.4.1 The meaning of characters in the vehicle descriptor section (VDS)...
9.17.4.2 If characters in the vehicle descriptor second section are used...
9.26. Aerodynamic device or equipment on the front of the vehicle...
9.26.1. Vehicle equipped with aerodynamic device or equipment on the front:...
9.26.2. Number of the type-approval certificate of the aerodynamic device or...
9.26.3. Detailed description (including photographs or drawings) of the aerodynamic device...
9.26.3.1 Construction and materials: …
9.26.3.2 Locking and adjustment system: …
9.26.3.3 Attachment and mounting to the vehicle: …
9.27. Aerodynamic device or equipment on the rear of the vehicle...
9.27.1. Vehicle equipped with aerodynamic device or equipment on the rear:...
9.27.2. Number of the type-approval certificate of the aerodynamic device or...

9.27.3. Detailed description (including photographs or drawings) of the aerodynamic device...
9.27.3.1 Construction and materials: …
9.27.3.2 Locking and adjustment system: …
9.27.3.3 Attachment and mounting to the vehicle: …

11. CONNECTIONS BETWEEN TOWING VEHICLES AND TRAILERS AND SEMI-TRAILERS
11.1. Class and type of the coupling device(s) fitted or to...
11.5. Number(s) of the type-approval certificate (s): …

PART II

Matrix showing the combinations of the entries listed in Part I within the versions and variants of the vehicle type

PART III

Number(s) of the type-approvals

ANNEX III

TEMPLATES FOR APPROVAL CERTIFICATES

1. General Description
1.1. The approval certificates shall be issued in paper of maximum...
1.2. All information on the approval certificates shall be provided in...
1.3. Model A shall be used for whole vehicle type-approvals.
1.4. Model B shall be used for GB system type-approvals.
1.5. Model C shall be used for GB component type-approvals and...
1.6. ...
1.7. Model E shall be used for ... individual vehicle approval....

MODEL A (to be used for type-approval of a vehicle) GB vehicle...GB vehicle TYPE-APPROVAL CERTIFICATE Identification of type-approval authority Communication concerning...

SECTION I

0.1. Make (trade name of manufacturer): …

0.1. Make (trade name of manufacturer): …
0.2. Type: …
0.2.1. Commercial name(s) (105): …
0.3. Means of identification of type, if marked on the vehicle:...
0.3.1. Location of that marking: …
0.4. Category of vehicle (3): …
0.5. Company name and address of manufacturer of the incomplete/complete/completed vehicle...
0.5.1. For multi-stage approved vehicles, company name and address of the...
0.8. Name(s) and address(es) of assembly plant(s): …
0.9. Name and address of the manufacturer’s representative (if any): …...

SECTION II

1. Technical service responsible for carrying out the tests (106):...

1. Technical service responsible for carrying out the tests (106): …...
2. Date of test report: …
3. Number of test report: …
1. For complete and completed vehicles/variants (4):
2. For incomplete vehicles/variants (4):

Attachments: Information package.

GB VEHICLE TYPE-APPROVAL CERTIFICATE

Appendix List of regulatory acts to which the type of vehicle...

MODEL B (to be used for type-approval of a system) GB type-approval...GB type-approval CERTIFICATE Identification of type-approval authority Communication concerning granting/extension/refusal/withdrawal...

SECTION I

0.1. Make (trade name of manufacturer): …

0.1. Make (trade name of manufacturer): …
0.2. Type: …
0.2.1. Commercial name(s) (if available): …
0.3. Means of identification of type, if marked on the vehicle...
0.3.1. Location of that marking: …
0.4. Category of vehicle (107): …
0.5. Name and address of manufacturer: …
0.8. Name(s) and address(es) of assembly plant(s): …
0.9. Name and address of the manufacturer’s representative (if any): …...

SECTION II

1. Additional information (where applicable): see Addendum.

1. Additional information (where applicable): see Addendum.
2. Technical service responsible for carrying out the tests: …
3. Date of test report: …
4. Number of test report: …
5. Remarks (if any): see Addendum.
6. Place: …
7. Date: …
8. Signature (108): …

Attachments: Information package

Addendum to GB type-approval certificate number …

1. Additional information
1.1. […]:
1.1.1. […]:
2. List of the numbers of the type-approval certificates of components...
2.1. […]:
3. Remarks
3.1. […]:

MODEL C (to be used for type-approval of components or separate technical...GB TYPE-APPROVAL CERTIFICATE Identification of type-approval authority Communication concerning granting/extension/refusal/withdrawal...

SECTION I

0.1. Make (trade name of manufacturer): …

0.1. Make (trade name of manufacturer): …
0.2. Type: …
0.3. Means of identification of type, if marked on the component/separate...
0.3.1. Location of that marking: …
0.5. Name and address of manufacturer: …
0.7. In the case of components and separate technical units, location...
0.8. Name(s) and address(es) of assembly plant(s): …
0.9. Name and address of the manufacturer's representative (if any): …...

SECTION II

1. Additional information (where applicable): see Addendum

1. Additional information (where applicable): see Addendum
2. Technical service responsible for carrying out the tests: …
3. Date of test report: …
4. Number of test report: …
5. Remarks (if any): see Addendum
6. Place: …
7. Date: …
8. Signature (108): …

Attachments: Information package.

Addendum to GB type-approval certificate number …

1. Additional information
1.1. […]:
1.1.1. […]:
2. Restriction of use of the device (if any)
2.1. […]:
3. Remarks
3.1. […]:

MODEL D (to be used for EU individual vehicle approval) EU INDIVIDUAL...EU INDIVIDUAL VEHICLE APPROVAL CERTIFICATE e(4) Name, address, phone number...

MODEL E (to be used for ... individual vehicle approval) ... INDIVIDUAL..... INDIVIDUAL VEHICLE APPROVAL CERTIFICATE g11 Name, address, phone number...

SECTION I

The undersigned [… name and … position], hereby certifies that...

0.1. Make (trade name of manufacturer): …
0.2. Type: … Variant: … Version: …

0.2.1. Commercial name: …
0.2.2. For multi-stage approved vehicles, type-approval information of the base/ previous stages...
0.2.3. Identifiers (where applicable) (1): …
0.2.3.1. Interpolation family's identifier: …
0.4. Category of vehicle (3): …
0.5. Name and address of the manufacturer: …
0.6. Location and method of attachment of the statutory plates: …...
0.9. Name and address of the manufacturer's representative (if any): …...
0.10. Vehicle identification number: …

SECTION II

1. Technical service responsible for carrying out the tests: …...

1. Technical service responsible for carrying out the tests: …
2. Date of test report: …
3. Number of test report: …
Attachments: Two photos (109) of the vehicle (optional)

Part 2

(Part 2 shall consist of the information in Appendix 1...

Appendix 1 Part 2 of the ... individual approval certificate

Category M1

General construction characteristics

1. Number of axles: … and wheels (5): …
3. Powered axles (number, position, interconnection): …
3.1. Specify if the vehicle is non-automated/automated/fully automated (4) (8)

Main dimensions

4. Wheelbase (111): … mm
4.1. Axle spacing: 1-2: … mm 2-3: … mm 3-4: …...
5. Length: … mm
6. Width: … mm
7. Height: … mm

Masses

13.2. Actual mass of the vehicle:…kg
16. Technically permissible maximum masses
16.1. Technically permissible maximum laden mass: … kg
16.2. Technically permissible mass on each axle:
16.4. Technically permissible maximum mass of the combination: … kg
18. Technically permissible maximum towable mass in case of:
18.1. Drawbar trailer: … kg
18.3. Centre-axle trailer: … kg
18.4. Unbraked trailer: … kg
19. Technically permissible maximum static vertical mass at the coupling point:...

Power plant

20. Manufacturer of the engine: …
21. Engine code as marked on the engine: …
22. Working principle: …

23. Pure electric: yes/no (4)
23.1. Class of Hybrid [electric] vehicle: OVC-HEV/NOVC-HEV/ OVC-FCHV/NOVC-FCHV (4)
24. Number and arrangement of cylinders: …
25. Engine capacity: … cm3
26. Fuel: Diesel/petrol/LPG/NG – Biomethane/Ethanol/Biodiesel/ Hydrogen (4)
26.1. Mono fuel/Bi fuel/Flex fuel/Dual Fuel (4)
26.2. (Dual-fuel only) Type 1A/Type 1B/Type 2A/Type 2B/Type 3B (4)
27. Maximum power
27.1. Maximum net power (159): … kW at … min–1 (internal...
27.3. Maximum net power: … kW (electric motor) (4) (112)
27.4. Maximum 30 minutes power: … kW (electric motor) (4) (112)...
28. Gearbox (type): …

Maximum speed

29. Maximum speed: … km/h

Axles and suspension

30. Axle(s) track: 1. … mm 2. … mm 3. …...
35. Fitted tyre/wheel combination/energy efficiency class of rolling resistance coefficients (RRC)...

Bodywork

38. Code for bodywork (113): …
40. Colour of vehicle (114): …
41. Number and configuration of doors: …
42. Number of seating positions (including the driver) (115): …
42.1. Seat(s) designated for use only when the vehicle is stationary:...
42.3. Number of wheelchair user accessible position: …

Environmental performances

46. Sound level
47. Exhaust emission level (116): Euro … or other legislation: …...
47.1.1. Test mass, kg: …
48. Exhaust emissions (162) (163) (164):
48.1. Smoke corrected absorption coefficient: … (m–1)
49. CO2 emissions/fuel consumption/electric energy consumption (162):
1. all power train except pure electric vehicles
2. NEDC: pure electric vehicles and OVC hybrid electric vehicles
3. Vehicle fitted with eco-innovation(s): yes/no (4)
3.1. General code of the eco-innovation(s) (151): …
3.2. Total CO2 emissions savings due to the eco-innovation(s) (68)
3.2.1. NEDC savings: … g/km (if applicable)
3.2.2. WLTP savings: … g/km (if applicable)
4. All power trains, except pure electric vehicle, under Commission Regulation...
5. Pure electric vehicles and OVC hybrid electric vehicles, under Regulation...
5.1. Pure electric vehicles
5.2. OVC hybrid electric vehicles

51. For special purpose vehicles: designation in accordance with point 5...
52. Remarks: …
53. Additional information (mileage (118), …)

Category M2

General construction characteristics

1. Number of axles: … and wheels (5): …
1.1. Number and position of axles with twin wheels: …
2. Steered axles (number, position): …
3. Powered axles (number, position, interconnection): …
3.1. Specify if the vehicle is non-automated/automated/fully automated (4) (8)

Main dimensions

4. Wheelbase (111): … mm
4.1. Axle spacing: 1-2: … mm 2-3: … mm 3-4: …...
5. Length: … mm
5.3. Vehicle equipped with aerodynamic device or equipment on the front/rear/not...
6. Width: … mm
7. Height: … mm
9. Distance between the front end of the vehicle and the...

Masses

13.2. Actual mass of the vehicle: …kg
13.3. Additional mass for alternative propulsion: … kg
14. Mass of the base vehicle in running order: … kg...
16. Technically permissible maximum masses
16.1. Technically permissible maximum laden mass: … kg
16.2. Technically permissible mass on each axle:
16.3. Technically permissible mass on each axle group:
16.4. Technically permissible maximum mass of the combination: … kg
17. Intended registration/in service maximum permissible masses in national/international traffic (4)...
17.1. Intended registration/in service maximum permissible laden mass: … kg
17.2. Intended registration/in service maximum permissible laden mass on each axle:...
17.3. Intended registration/in service maximum permissible laden mass on each axle...
17.4. Intended registration/in service maximum permissible mass of the combination: …...
18. Technically permissible maximum towable mass in case of:
18.1. Drawbar trailer: … kg
18.3. Centre-axle trailer: … kg
18.4. Unbraked trailer: … kg
19. Technically permissible maximum static vertical mass at the coupling point:…...

Power plant

20. Manufacturer of the engine: …
21. Engine code as marked on the engine: …
22. Working principle: …
23. Pure electric: yes/no (4)

23.1. Class of Hybrid [electric] vehicle: OVC-HEV/NOVC-HEV/ OVC-FCHV/NOVC-FCHV (4)
24. Number and arrangement of cylinders: …
25. Engine capacity: … cm3
26. Fuel: Diesel/petrol/LPG/NG – Biomethane/Ethanol/Biodiesel/ Hydrogen (4)
26.1. Mono fuel/Bi fuel/Flex fuel/Dual Fuel (4)
26.2. (Dual-fuel only) Type 1A/Type 1B/Type 2A/Type 2B/Type 3B (4)
27. Maximum power
27.1. Maximum net power (159): … kW at … min–1 (internal...
27.3. Maximum net power: … kW (electric motor) (4) (112)
27.4. Maximum 30 minutes power: … kW (electric motor) (4) (112)...
28. Gearbox (type): …

Maximum speed

29. Maximum speed: … km/h

Axles and suspension

30. Axle(s) track: 1. … mm 2. … mm 3. …...
33. Drive axle(s) fitted with air suspension or equivalent: yes/no (4)...
35. Fitted tyre/wheel combination/energy efficiency class of rolling resistance coefficients (RRC)...

Brakes

36. Trailer brake connections mechanical/electric/pneumatic/ hydraulic (4)
37. Pressure in feed line for trailer braking system: … bar...

Bodywork

38. Code for bodywork (113): …
39. Class of vehicle: class I/Class II/Class III/Class A/Class B (4)...
40. Colour of vehicle (114): …
41. Number and configuration of doors: …
42. Number of seating positions (including the driver) (115): …
42.1. Seat(s) designated for use only when the vehicle is stationary:...
42.3. Number of wheelchair user accessible position: …
43. Number of standing places: …

Coupling device

44. Approval number or approval mark of coupling device (if fitted):...
45.1. Characteristics values (4): D: …/V: …/S: …/U: …

Environmental performances

46. Sound level
47. Exhaust emission level (116): Euro … or other legislation: …...
48. Exhaust emissions (162) (163) (164):
48.1. Smoke corrected absorption coefficient: … (m–1)
49. CO2 emissions/fuel consumption/electric energy consumption (162):

1. all power train except pure electric vehicles
2. NEDC: pure electric vehicles and OVC hybrid electric vehicles

4. All power trains, except pure electric vehicle, under Regulation (EU)...
5. Pure electric vehicles and OVC hybrid electric vehicles, under Regulation...
5.1. Pure electric vehicles
5.2. OVC hybrid electric vehicles
51. For special purpose vehicles: designation in accordance with point 5...
52. Remarks: …
53. Additional information (mileage (118), …)

Category M3

General construction characteristics

1. Number of axles: … and wheels (5): …
1.1. Number and position of axles with twin wheels: …
2. Steered axles (number, position): …
3. Powered axles (number, position, interconnection): …
3.1. Specify if the vehicle is non-automated/automated/fully automated (4) (8)

Main dimensions

4. Wheelbase (111): … mm
4.1. Axle spacing: 1-2: … mm 2-3: … mm 3-4: …...
5. Length: … mm
5.3. Vehicle equipped with aerodynamic device or equipment on the front/rear/not...
6. Width: … mm
7. Height: … mm
9. Distance between the front end of the vehicle and the...

Masses

13.2. Actual mass of the vehicle: …kg
13.3. Additional mass for alternative propulsion: … kg
14. Mass of the base vehicle in running order: … kg...
16. Technically permissible maximum masses
16.1. Technically permissible maximum laden mass: … kg
16.2. Technically permissible mass on each axle:
16.3. Technically permissible mass on each axle group:
16.4. Technically permissible maximum mass of the combination: … kg
17. Intended registration/in service maximum permissible masses in national/international traffic (4)...
17.1. Intended registration/in service maximum permissible laden mass: … kg
17.2. Intended registration/in service maximum permissible laden mass on each axle:...
17.3. Intended registration/in service maximum permissible laden mass on each axle...
17.4. Intended registration/in service maximum permissible mass of the combination: …...
18. Technically permissible maximum towable mass in case of:
18.1. Drawbar trailer: … kg
18.3. Centre-axle trailer: … kg
18.4. Unbraked trailer: … kg
19. Technically permissible maximum static vertical mass at the coupling point:…...

Power plant
20. Manufacturer of the engine: …
21. Engine code as marked on the engine: …
22. Working principle: …
23. Pure electric: yes/no (4)
23.1. Class of Hybrid [electric] vehicle: OVC-HEV/NOVC-HEV/ OVC-FCHV/NOVC-FCHV (4)
24. Number and arrangement of cylinders: …
25. Engine capacity: … cm3
26. Fuel: Diesel/petrol/LPG/NG – Biomethane/Ethanol/Biodiesel/ Hydrogen (4)
26.1. Mono fuel/Bi fuel/Flex fuel/Dual Fuel (4)
26.2. (Dual-fuel only) Type 1A/Type 1B/Type 2A/Type 2B/Type 3B (4)
27. Maximum power
27.1. Maximum net power (159): … kW at … min–1 (internal...
27.3. Maximum net power: … kW (electric motor) (4) (112)
27.4. Maximum 30 minutes power: … kW (electric motor) (4) (112)...
28. Gearbox (type): …
Maximum speed
29. Maximum speed: … km/h
Axles and suspension
30.1. Track of each steered axle: … mm
30.2. Track of all other axles: … mm
32. Position of loadable axle(s): …
33. Drive axle(s) fitted with air suspension or equivalent: yes/no (4)...
35. Tyre/wheel combination (160): …
Brakes
36. Trailer brake connections mechanical/electric/pneumatic/ hydraulic (4)
37. Pressure in feed line for trailer braking system: … bar...
Bodywork
38. Code for bodywork (113): …
39. Class of vehicle: class I/Class II/Class III/Class A/Class B (4)...
40. Colour of vehicle (114): …
41. Number and configuration of doors: …
42. Number of seating positions (including the driver) (115): …
42.1. Seat(s) designated for use only when the vehicle is stationary:...
42.3. Number of wheelchair user accessible position: …
43. Number of standing places: …
Coupling device
44. Approval number or approval mark of coupling device (if fitted):...
45.1. Characteristics values (4): D: …/V: …/S: …/U: …
Environmental performances
46. Sound level
47. Exhaust emission level (116): Euro … or other legislation: …...
48. Exhaust emissions (162) (163) (164):
48.1. Smoke corrected absorption coefficient: … (m–1)

51. For special purpose vehicles: designation in accordance with point 5...
52. Remarks: …
53. Additional information (mileage (118), …)

Category N1

General construction characteristics

1. Number of axles: … and wheels(5): …
1.1. Number and position of axles with twin wheels: …
3. Powered axles (number, position, interconnection): …
3.1. Specify if the vehicle is non-automated/automated/fully automated (4) (8)

Main dimensions

4. Wheelbase (111): … mm
4.1. Axle spacing: 1-2: … mm 2-3: … mm 3-4: …...
5. Length: … mm
6. Width: … mm
7. Height: … mm
8. Fifth wheel lead for semi-trailer towing vehicle (maximum and minimum):...
11. Length of the loading area: … mm

Masses

13.2. Actual mass of the vehicle: … kg
14. Mass of the base vehicle in running order: … kg...
16. Technically permissible maximum masses
16.1. Technically permissible maximum laden mass: … kg
16.2. Technically permissible mass on each axle:
16.4. Technically permissible maximum mass of the combination: … kg
18. Technically permissible maximum towable mass in case of:
18.1. Drawbar trailer: … kg
18.2. Semi-trailer: … kg
18.3. Centre-axle trailer: … kg
18.4. Unbraked trailer: … kg
19. Technically permissible maximum static vertical mass at the coupling point:...

Power plant

20. Manufacturer of the engine: …
21. Engine code as marked on the engine: …
22. Working principle: …
23. Pure electric: yes/no (4)
23.1. Class of Hybrid [electric] vehicle: OVC-HEV/NOVC -HEV/ OVC-FCHV/NOVC-FCHV (4)
24. Number and arrangement of cylinders: …
25. Engine capacity: … cm3
26. Fuel: Diesel/petrol/LPG/NG – Biomethane/Ethanol/Biodiesel/ Hydrogen (4)
26.1. Mono fuel/Bi fuel/Flex fuel/Dual Fuel (4)
26.2. (Dual-fuel only) Type 1A/Type 1B/Type 2A/Type 2B/Type 3B (4)
27. Maximum net power
27.1. Maximum net power (159): … kW at … min–1 (internal...
27.3. Maximum net power: … kW (electric motor) (4) (112)

27.4. Maximum 30 minutes power: … kW (electric motor) (4) (112)...
28. Gearbox (type): …

Maximum speed

29. Maximum speed: … km/h

Axles and suspension

30. Axle(s) track: 1. … mm 2. … mm 3. …...
35. Fitted tyre/wheel combination/energy efficiency class of rolling resistance coefficients (RRC)...

Bodywork

38. Code for bodywork (113): …
40. Colour of vehicle (114): …
41. Number and configuration of doors: …
42. Number of seating positions (including the driver) (115): …
42.1. Seat(s) designated for use only when the vehicle is stationary:...
42.3. Number of wheelchair user accessible position: …

Coupling device

44. Approval number or approval mark of coupling device (if fitted):...
45.1. Characteristics values(4): D: …/V: …/S: …/U: …

Environmental performances

46. Sound level
47. Exhaust emission level (116): Euro … or other legislation: …...
47.1.1. WLTP test mass (1)
48. Exhaust emissions (162) (163) (164):
49. CO2 emissions/fuel consumption/electric energy consumption (1):
1. all power train except pure electric vehicles
2. NEDC: pure electric vehicles and OVC hybrid electric vehicles
3. Vehicle fitted with eco-innovation(s): yes/no (4)
3.1. General code of the eco-innovation(s) (151): …
3.2. Total CO2 emissions savings due to the eco-innovation(s) (68)
3.2.1. NEDC savings: … g/km (if applicable)
3.2.2. WLTP savings: … g/km (if applicable)
4. All power trains, except pure electric vehicle, under Regulation (EU)...
5. Pure electric vehicles and OVC hybrid electric vehicles, under Regulation...
5.1. Pure electric vehicles
5.2. OVC hybrid electric vehicles

Miscellaneous

50. Type-approved according to the design requirements for transporting dangerous goods:...
51. For special purpose vehicles: designation in accordance with point 5...
52. Remarks: …
53. Additional information (mileage (118), …)

Category N2

General construction characteristics

1. Number of axles: … and wheels (5): …
1.1. Number and position of axles with twin wheels: …

2. Steered axles (number, position): …
3. Powered axles (number, position, interconnection): …
3.1. Specify if the vehicle is non-automated/automated/fully automated (4) (8)

Main dimensions

4. Wheelbase (111): … mm
4.1. Axle spacing: 1-2: … mm 2-3: … mm 3-4: …...
5. Length: … mm
5.2. Elongated cab complying with Appendix 5 of Annex I to...
5.3. vehicle equipped with aerodynamic device or equipment on the front/rear/not...
6. Width: … mm
7. Height: … mm
8. Fifth wheel lead for semi-trailer towing vehicle (maximum and minimum):...
9. Distance between the front end of the vehicle and the...
11. Length of the loading area: … mm

Masses

13.2. Actual mass of the vehicle: … kg
13.3. Additional mass for alternative propulsion: … kg
14. Mass of the base vehicle in running order: … kg...
16. Technically permissible maximum masses
16.1. Technically permissible maximum laden mass: … kg
16.2. Technically permissible mass on each axle:
16.3. Technically permissible mass on each axle group:
16.4. Technically permissible maximum mass of the combination: … kg
17. Intended registration/in service maximum permissible masses in national/international traffic (4)...
17.1. Intended registration/in service maximum permissible laden mass: … kg
17.2. Intended registration/in service maximum permissible laden mass on each axle:...
17.3. Intended registration/in service maximum permissible laden mass on each axle...
17.4. Intended registration/in service maximum permissible mass of the combination: …...
18. Technically permissible maximum towable mass in case of:
18.1. Drawbar trailer: … kg
18.2. Semi-trailer: … kg
18.3. Centre-axle trailer: … kg
18.4. Unbraked trailer: … kg
19. Technically permissible maximum static vertical mass at the coupling point:...

Power plant

20. Manufacturer of the engine: …
21. Engine code as marked on the engine: …
22. Working principle: …
23. Pure electric: yes/no (4)
23.1. Class of Hybrid [electric] vehicle: OVC-HEV/NOVC -HEV/ OVC-FCHV/NOVC-FCHV (4)
24. Number and arrangement of cylinders: …
25. Engine capacity: … cm3

26. Fuel: Diesel/petrol/LPG/NG – Biomethane/Ethanol/Biodiesel/ Hydrogen (4)
26.1. Mono fuel/Bi fuel/Flex fuel/Dual Fuel (4)
26.2. (Dual-fuel only) Type 1A/Type 1B/Type 2A/Type 2B/Type 3B (4)
27. Maximum net power
27.1. Maximum net power (159): … kW at … min–1 (internal...
27.3. Maximum net power: … kW (electric motor) (4) (112)
27.4. Maximum 30 minutes power: … kW (electric motor) (4) (112)...
28. Gearbox (type): …

Maximum speed

29. Maximum speed: … km/h

Axles and suspension

31. Position of lift axle(s): …
32. Position of loadable axle(s): …
33. Drive axle(s) fitted with air suspension or equivalent: yes/no (4)...
35. Fitted tyre/wheel combination/energy efficiency class of rolling resistance coefficients (RRC)...

Brakes

36. Trailer brake connections mechanical/electric/pneumatic/ hydraulic (4)
37. Pressure in feed line for trailer braking system: … bar...

Bodywork

38. Code for bodywork (113): …
40. Colour of vehicle (114): …
41. Number and configuration of doors: …
42. Number of seating positions (including the driver) (115): …

Coupling device

44. Approval number or approval mark of coupling device (if fitted):...
45.1. Characteristics values (4): D: …/V: …/S: …/U: …

Environmental performances

46. Sound level
47. Exhaust emission level (116): Euro … or other legislation: …...
47.1.1. WLTP test mass (1)
48. Exhaust emissions (162) (163) (164):
49. CO2 emissions/fuel consumption/electric energy consumption (1):
1. all power train except pure electric vehicles
2. NEDC: pure electric vehicles and OVC hybrid electric vehicles
4. All power trains, except pure electric vehicle, under Regulation (EU)...
5. Pure electric vehicles and OVC hybrid electric vehicles, under Regulation...
5.1. Pure electric vehicles
5.2. OVC hybrid electric vehicles
49.1. Cryptographic hash of the manufacturer’s records file (119): .....

49.4. Cryptographic hash of the customer information file: ..... (120) (121)...

Miscellaneous

50. Type-approved according to the design requirements for transporting dangerous goods:...

51. For special purpose vehicles: designation in accordance with point 5...

52. Remarks: …

53. Additional information (mileage (118), …)

Category N3

General construction characteristics

1. Number of axles: … and wheels (5): …

1.1. Number and position of axles with twin wheels: …

2. Steered axles (number, position): …

3. Powered axles (number, position, interconnection): …

3.1. Specify if the vehicle is non-automated/automated/fully automated (4) (8)

Main dimensions

4. Wheelbase (111): … mm

4.1. Axle spacing: 1-2: … mm 2-3: … mm 3-4: …...

5. Length: … mm

5.2. Elongated cab complying with Appendix 5 of Annex I to...

5.3. vehicle equipped with aerodynamic device or equipment on the front/rear/not...

6. Width: … mm

7. Height: … mm

8. Fifth wheel lead for semi-trailer towing vehicle (maximum and minimum):...

9. Distance between the front end of the vehicle and the...

11. Length of the loading area: … mm

Masses

13.2. Actual mass of the vehicle: … kg

13.3. Additional mass for alternative propulsion: … kg

16. Technically permissible maximum masses

16.1. Technically permissible maximum laden mass: … kg

16.2. Technically permissible mass on each axle:

16.3. Technically permissible mass on each axle group:

16.4. Technically permissible maximum mass of the combination: … kg

17. Intended registration/in service maximum permissible masses in national traffic (4)...

17.1. Intended registration/in service maximum permissible laden mass: … kg

17.2. Intended registration/in service maximum permissible laden mass on each axle:...

17.3. Intended registration/in service maximum permissible laden mass on each axle...

17.4. Intended registration/in service maximum permissible mass of the combination: …...

18. Technically permissible maximum towable mass in case of:

18.1. Drawbar trailer: … kg

18.2. Semi-trailer: … kg

18.3. Centre-axle trailer: … kg
18.4. Unbraked trailer: … kg
19. Technically permissible maximum static vertical mass at the coupling point:...

Power plant

20. Manufacturer of the engine: …
21. Engine code as marked on the engine: …
22. Working principle: …
23. Pure electric: yes/no (4)
23.1. Class of Hybrid [electric] vehicle: OVC-HEV/NOVC -HEV/ OVC-FCHV/NOVC-FCHV (4)
24. Number and arrangement of cylinders: …
25. Engine capacity: … cm3
26. Fuel: Diesel/petrol/LPG/NG – Biomethane/Ethanol/Biodiesel/ Hydrogen (4)
26.1. Mono fuel/Bi fuel/Flex fuel/Dual Fuel (4)
26.2. (Dual-fuel only) Type 1A/Type 1B/Type 2A/Type 2B/Type 3B (4)
27. Maximum net power
27.1. Maximum net power (159): … kW at … min–1 (internal...
27.3. Maximum net power: … kW (electric motor) (4) (112)
27.4. Maximum 30 minutes power: … kW (electric motor) (4) (112)...
28. Gearbox (type): …

Maximum speed

29. Maximum speed: … km/h

Axles and suspension

31. Position of lift axle(s): …
32. Position of loadable axle(s): …
33. Drive axle(s) fitted with air suspension or equivalent: yes/no (4)...
35. Fitted tyre/wheel combination (160): …

Brakes

36. Trailer brake connections mechanical/electric/pneumatic/ hydraulic (4)
37. Pressure in feed line for trailer braking system: … bar...

Bodywork

38. Code for bodywork (113): …
40. Colour of vehicle (114): …
41. Number and configuration of doors: …
42. Number of seating positions (including the driver) (115): …

Coupling device

44. Approval number or approval mark of coupling device (if fitted):...
45.1. Characteristics values (4): D: …/V: …/S: …/U: …

Environmental performances

46. Sound level
47. Exhaust emission level (116): Euro … or other legislation: …...
48. Exhaust emissions (162) (163) (164):
49.1. Cryptographic hash of the manufacturer's records file (119): .....
49.4. Cryptographic hash of the customer information file: ..... (120)

Miscellaneous
50. Type-approved according to the design requirements for transporting dangerous goods:...
51. For special purpose vehicles: designation in accordance with point 5...
52. Remarks: …
53. Additional information (mileage (118), …)

Categories O1/O2

General construction characteristics
1. Number of axles: … and wheels (5): …
1.1. Number and position of axles with twin wheels: …

Main dimensions
4. Wheelbase (157) (174): … mm
4.1. Axle spacing:
5. Length: … mm
6. Width: … mm
7. Height: … mm
10. Distance between the centre of the coupling device and the...
11. Length of the loading area: … mm

Masses
13.2. Actual mass of the vehicle: … kg
16. Technically permissible maximum masses
16.1. Technically permissible maximum laden mass: … kg
16.2. Technically permissible mass on each axle:
16.3. Technically permissible mass on each axle group:
19. Technically permissible maximum static vertical mass at the coupling point:...

Maximum speed
29. Maximum speed: … km/h

Axles and suspension
30.1. Track of each steered axle: … mm
30.2. Track of all other axles: … mm. Drive axle(s) fitted...
35. Fitted tyre/wheel combination (160): …

Brakes
36. Trailer brake connections mechanical/electric/pneumatic/ hydraulic (4)

Bodywork
38. Code for bodywork (113): …

Coupling device
44. Approval number or approval mark of coupling device (if fitted):...
45.1. Characteristics values (4): D: …/V: …/S: …/U: …

Miscellaneous
50. Type-approved according to the design requirements for transporting dangerous goods:...
51. For special purpose vehicles: designation in accordance with point 5...
52. Remarks: …
53. Additional information: …

Categories O3/O4

General construction characteristics
1. Number of axles: … and wheels (5): …
1.1. Number and position of axles with twin wheels: …

2. Steered axles (number, position): …

Main dimensions

4. Wheelbase (157) (174): … mm

4.1. Axle spacing:

5. Length: … mm

5.3. Vehicle equipped with aerodynamic device or equipment on the rear/not...

6. Width: … mm

7. Height: … mm

10. Distance between the centre of the coupling device and the...

11. Length of the loading area: … mm

Masses

13.2. Actual mass of the vehicle: … kg

16. Technically permissible maximum masses

16.1. Technically permissible maximum laden mass: … kg

16.2. Technically permissible mass on each axle:

16.3. Technically permissible mass on each axle group:

16.4. Technically permissible maximum mass of the combination: … kg

17. Intended registration/in service maximum permissible masses in national traffic (4)...

17.1. Intended registration/in service maximum permissible laden mass: … kg

17.2. Intended registration/in service maximum permissible laden mass on each axle:...

17.3. Intended registration/in service maximum permissible laden mass on each axle...

17.4. Intended registration/in service maximum permissible mass of the combination: …...

19. Technically permissible maximum static vertical mass at the coupling point:...

Maximum speed

29. Maximum speed: … km/h

Axles and suspension

31. Position of lift axle(s): …

32. Position of loadable axle(s): …

34. Axle(s) fitted with air suspension or equivalent: yes/no (4)

35. Fitted tyre/wheel combination (160): …

Brakes

36. Trailer brake connections mechanical/electric/pneumatic/ hydraulic (4)

Bodywork

38. Code for bodywork (113): …

Coupling device

44. Approval number or approval mark of coupling device (if fitted):...

45.1. Characteristics values (4): D: …/V: …/S: …/U: …

Miscellaneous

50. Type-approved according to the design requirements for transporting dangerous goods:...

51. For special purpose vehicles: designation in accordance with point 5...

52. Remarks: …

53. Additional information: …

ANNEX IV

APPROVAL CERTIFICATE NUMBERING SYSTEM

1. Approval certificates shall be numbered in accordance with the method...

2. The number of the approval certificate for whole-vehicle type-approvals shall...

2.1 Section 1: The lower-case letter ‘g’ is followed by the number 11....

2.2 Section 2: (only for a GB type-approval of a system, component or...

2.3 Section 3: (applicable to all approvals): Either the number of the Regulation...

2.4 Section 4: (applicable to all approvals): A five-digit sequential number (with leading...

2.5 Section 5: (not for ... individual vehicle approvals): A two-digit sequential number...

3. Examples of approval certificate numbers

3.1. Examples of a third type-approval of a system, component or...

3.2. Example of a second extension to the fourth GB whole-vehicle...

3.3. Example of a GB type-approval of vehicles produced in medium...

3.4. Example of a ... type-approval of vehicles produced in small...

3.5. ...

3.6. Example of an individual vehicle approval granted ... in accordance...

4. This Annex does not apply to type-approvals granted in accordance...

4.1. Section 1: Point 2.1 of this Annex shall apply.

4.2. Section 2: The number of Regulation (EC) No 661/2009 (i.e. ‘661/2009’)

4.3. Section 3: Section 3 shall be composed of the following elements in...

4.4. Section 4: Point 2.4 of this Annex shall apply.

4.5. Section 5: Point 2.5 of this Annex shall apply.

4.6. Examples of type-approval certificate numbers

4.6.1. Example of a type-approval granted ... in accordance with UN...

4.6.2. Example of a type-approval granted ... in accordance with UN...

ANNEX V

GB type-approval mark of components and separate technical units

1. The GB type-approval mark for components and separate technical units...

1.1. A rectangle surrounding the lower-case letter ‘g’, followed by the...

1.2. In the vicinity of the rectangle, two digits indicating the...

1.3. An additional symbol or symbols located above the rectangle where...

2. The type-approval mark of components or separate technical units shall...

3. Example of a type-approval mark for a fourth type-approval of...

4. This Annex does not apply to type-approvals granted in accordance...

ANNEX VI

TEMPLATE FOR THE TEST RESULT SHEET

TEST RESULTS SHEET

1. Results of the sound level tests
2. Results of the exhaust emission tests
   - 2.1. Emissions from motor vehicles tested under the test procedure for...
   - 2.1.1. Type 1 test (130) (131), (vehicle emissions in the test...
   - 2.1.2. Type 2 test (130) (131), (emissions data required at type-approval...
   - 2.1.3. Type 3 test (emissions of crankcase gases): …
   - 2.1.4. Type 4 test (evaporative emissions): … g/test
   - 2.1.5. Type 5 test (durability of anti-pollution control devices):
   - 2.1.6. Type 6 test (average emissions at low ambient temperatures):
   - 2.1.7. OBD: yes/no (4)
   - 2.2. Emissions from engines tested under the test procedure for heavy-duty...
   - 2.2.1. Results of the ESC test (132) (133) (134)
   - 2.2.2. Result of the ELR test (132)
   - 2.2.3. Result of the ETC test (133) (134),
   - 2.2.4. Idle test (132)
   - 2.3. Diesel smoke
   - 2.3.1. Results of the test under free acceleration
3. Results of the CO2 emission, fuel/electric energy consumption, and electric...
   - 3.1. Internal combustion engines, including not externally chargeable hybrid electric vehicles...
   - 3.2. Externally chargeable hybrid electric vehicles (OVC) (132)
   - 3.3. Pure electric vehicles (132)
   - 3.4. Hydrogen fuel cell vehicles (132)
   - 3.5. The correlation tool output report(s) referred to in Commission Implementing...
   - 3.5.1. Deviation factor (if applicable)
   - 3.5.2. Verification factor (if applicable)
   - 3.5.3. Internal combustion engines, including not externally chargeable hybrid electric vehicles...

ANNEX VII

FORMAT OF TEST REPORTS FOR THE TYPE-APPROVAL OF A SYSTEM, COMPONENT OR SEPARATE TECHNICAL UNIT

1. For each of the regulatory acts listed in Part I...

2. The test report shall be issued in English.

3. The test report shall include at least the following information:...

4. Where the manufacturer and the type-approval authority or technical service...

5. If a format of a test report is provided in...

ANNEX VIII

CERTIFICATE OF CONFORMITY IN PAPER FORMAT

0. OBJECTIVES

1. GENERAL DESCRIPTION
1.1. The certificate of conformity in paper format shall consist of...
1.2. The certificate of conformity in paper format shall be of...
1.3. The technical descriptions indicated in Part 2 of the certificate...
1.4. All information on the certificate of conformity in paper format...

2. SPECIAL PROVISIONS
2.1. Model A of the certificate of conformity in paper format...
2.2. Model B of the certificate of conformity in paper format...
2.3. Model C of the certificate of conformity shall be used...

3. PAPER AND SECURITY PRINTING FEATURES TO PREVENT FORGERY

APPENDIX TEMPLATES FOR THE CERTIFICATE OF CONFORMITY IN PAPER FORMAT
PART I COMPLETE AND COMPLETED VEHICLES
MODEL A — PART 1 VEHICLES
COMPLIANCE
CERTIFICATE OF CONFORMITY
0.1. Make (Trade name of manufacturer): …
0.2. Type: …
0.2.1. Commercial name(s): …
0.2.3. Identifiers (1):
0.2.3.1. Interpolation family's identifier: …
0.2.3.2. ATCT family's identifier: …
0.2.3.3. PEMS family's identifier: …
0.2.3.4. Roadload family's identifier: …
0.2.3.5. Roadload Matrix family's identifier (if applicable): …
0.2.3.6. Periodic regeneration family's identifier: …

0.2.3.7. Evaporative test family's identifier: …
0.4. Vehicle category: …
0.5. Company name and address of manufacturer: …
0.6. Location and method of attachment of the statutory plates: …...
0.9. Name and address of the manufacturer's representative (if any): …...
0.10. Vehicle identification number: …
0.11. Date of manufacture of the vehicle: …

MODEL C2 — PART V

VEHICLES TYPE-APPROVED IN SMALL SERIES

CERTIFICATE OF CONFORMITY

0.1. Make (Trade name of manufacturer): …
0.2. Type: …
0.2.1. Commercial name(s): …
0.2.3. Identifiers (1):
0.2.3.1. Interpolation family's identifier: …
0.2.3.2. ATCT family's identifier: …
0.2.3.3. PEMS family's identifier: …
0.2.3.4. Roadload family's identifier: …
0.2.3.5. Roadload Matrix family's identifier (if applicable): …
0.2.3.6. Periodic regeneration family's identifier: …
0.2.3.7. Evaporative test family's identifier: …
0.4. Vehicle category: …
0.5. Company name and address of manufacturer: …
0.6. Location and method of attachment of the statutory plates: …...
0.9. Name and address of the manufacturer's representative (if any): …...
0.10. Vehicle identification number: …
0.11. Date of manufacture of the vehicle: …

MODEL C3 — PART V

COMPLETED VEHICLES

CERTIFICATE OF CONFORMITY

0.1. Make (Trade name of the manufacturer): …
0.2. Type: …
0.2.1. Commercial name(s): …
0.2.2. For multi-stage approved vehicles, type-approval information of the base/previous stages...
0.2.3. Identifiers (1):
0.2.3.1. Interpolation family's identifier: …
0.2.3.2. ATCT family's identifier: …
0.2.3.3. PEMS family's identifier: …
0.2.3.4. Roadload family's identifier: …
0.2.3.5. Roadload Matrix family's identifier (if applicable): …
0.2.3.6. Periodic regeneration family's identifier: …
0.2.3.7. Evaporative test family's identifier: …
0.4. Vehicle category: …
0.5. Company name and address of manufacturer: …
0.5.1. For multi-stage approved vehicles, company name and address of the...
0.6. Location and method of attachment of the statutory plates: …...
0.9. Name and address of the manufacturer's representative (if any): …...

0.10. Vehicle identification number: …
0.11. Date of manufacture of the vehicle: …
Attachments: Certificate of conformity delivered at each previous stage.

PART 2 VEHICLE CATEGORY M1

General construction characteristics
1. Number of axles: … and wheels (5): …
3. Powered axles (number, position, interconnection): … …
3.1. Specify if the vehicle is non-automated/automated/ fully automated (8)

Main dimensions
4. Wheelbase (157): … mm
4.1. Axle spacing:
5. Length: … mm
6. Width: … mm
7. Height: … mm

Masses (158)
13. Mass in running order: … kg
13.2. Actual mass of the vehicle: … kg
16. Technically permissible maximum masses
16.1. Technically permissible maximum laden mass: … kg
16.2. Technically permissible mass on each axle:
16.4. Technically permissible maximum mass of the combination: … kg
18. Technically permissible maximum towable mass in case of:
18.1. Drawbar trailer: … kg
18.3. Centre-axle trailer: … kg
18.4. Unbraked trailer: … kg
19. Technically permissible maximum static vertical mass at the coupling point:...

Power plant
20. Manufacturer of the engine: …
21. Engine code as marked on the engine: …
22. Working principle: …
23. Pure electric: yes/no (4)
23.1. Class of Hybrid [electric] vehicle: OVC-HEV/NOVC-HEV/OVC-FCHV/NOVC-FCHV (4)
24. Number and arrangement of cylinders: …
25. Engine capacity: … cm3
26. Fuel: Diesel/petrol/LPG/NG – Biomethane/Ethanol/ Biodiesel/Hydrogen (4)
26.1. Mono fuel/Bi fuel/Flex fuel/Dual-fuel (4)
26.2. (Dual-fuel only) Type 1A/Type 1B/Type 2A/Type 2B/ Type 3B (4)
27. Maximum power
27.1. Maximum net power (159): … kW at … min–1 (internal...
27.3. Maximum net power: … kW (electric motor) (4) (112)
27.4. Maximum 30 minutes power: … kW (electric motor) (4) (112)...
28. Gearbox (type): …

28.1. Gearbox ratios (to complete for vehicles with manual shift transmissions)...
28.1.1. Final drive ratio (if applicable): …
28.1.2. Final drive ratios (to complete if and where applicable)
Maximum speed
29. Maximum speed: … km/h
Axles and suspension
30. Axle(s) track:
35. Fitted tyre/wheel combination/energy efficiency class of rolling resistance coefficients (RRC)...
Brakes
36. Trailer brake connections mechanical/electric/ pneumatic/hydraulic (4)
Bodywork
38. Code for bodywork (113): …
40. Colour of vehicle (114): …
41. Number and configuration of doors: …
42. Number of seating positions (including the driver) (115): …
42.1. Seat(s) designated for use only when the vehicle is stationary:...
42.3. Number of wheelchair user accessible position: …
Environmental performances
46. Sound level
47. Exhaust emission level (116): Euro…
47.1. Parameters for emission testing of Vind (1)
47.1.1. Test mass, kg: …
47.1.2. Frontal area, m2 (161): …
47.1.2.1 Projected frontal area of air entrance of the front grille...
47.1.3. Road load coefficients
47.1.3.0 f0, N: …
47.1.3.1 f1, N/(km/h): …
47.1.3.2 f2, N/(km/h) (2): …
47.2. Driving cycle (1)
47.2.1. Driving Cycle class: 1/2/3a/3b (4)
47.2.2. Downscaling factor (fdsc): …
47.2.3. Capped speed: yes/no (4)
48. Exhaust emissions (162) (163) (164):
48.1. Smoke corrected absorption coefficient: … (m–1)
48.2. Declared maximum RDE values (if applicable)
49. CO2 emissions/fuel consumption/electric energy consumption (162) (1):
1. All power trains, except pure electric vehicles (if applicable)
2. Pure electric vehicles and OVC hybrid electric vehicles (if applicable)...
3. Vehicle fitted with eco-innovation(s): yes/no (4)
3.1. General code of the eco-innovation(s) (151): …
3.2. Total CO2 emissions savings due to the eco-innovation(s) (150) (repeat...
3.2.1. NEDC savings: … g/km (if applicable)
3.2.2. WLTP savings: … g/km (if applicable)

4. All power trains, except pure electric vehicle, under Commission Regulation...
5. Pure electric vehicles and OVC hybrid electric vehicles, under Commission...
5.1. Pure electric vehicles
5.2. OVC hybrid electric vehicles

Miscellaneous

51. For special purpose vehicles: designation in accordance with point 5...
52. Remarks (165): …

PART 2 VEHICLE CATEGORY M2

General construction characteristics

1. Number of axles: … and wheels (5): …
1.1. Number and position of axles with twin wheels: … 2....
3. Powered axles (number, position, interconnection): … …
3.1. Specify if the vehicle is non-automated/automated/ fully automated (8)

Main dimensions

4. Wheelbase (157): … mm
4.1. Axle spacing:
5. Length: … mm
5.2. Elongated Cabs complying with Appendix 5 of Annex I to...
5.3. Vehicle equipped with aerodynamic device or equipment on the front/rear/not...
6. Width: … mm
7. Height: … mm
9. Distance between the front end of the vehicle and the...
12. Rear overhang: … mm

Masses (158)

13. Mass in running order: … kg
13.1. Distribution of this mass amongst the axles:
13.2. Actual mass of the vehicle: … kg
13.3. Additional mass for alternative propulsion: … kg
16. Technically permissible maximum masses
16.1. Technically permissible maximum laden mass: … kg
16.2. Technically permissible mass on each axle:
16.3. Technically permissible mass on each axle group:
16.4. Technically permissible maximum mass of the combination: … kg
17. Intended registration/in service maximum permissible masses in national/international traffic (4)...
17.1. Intended registration/in service maximum permissible laden mass: … kg
17.2. Intended registration/in service maximum permissible laden mass on each axle:...
17.3. Intended registration/in service maximum permissible laden mass on each axle...
17.4. Intended registration/in service maximum permissible mass of the combination: …...

18. Technically permissible maximum towable mass in case of:
18.1. Drawbar trailer: … kg
18.3. Centre-axle trailer: … kg
18.4. Unbraked trailer: … kg
19. Technically permissible maximum static mass at the coupling point: …...

Power plant

20. Manufacturer of the engine: …
21. Engine code as marked on the engine: …
22. Working principle: …
23. Pure electric: yes/no (4)
23.1. Class of Hybrid [electric] vehicle: OVC-HEV/NOVC-HEV/OVC-FCHV/NOVC-FCHV (4)
24. Number and arrangement of cylinders: …
25. Engine capacity: … cm3
26. Fuel: Diesel/petrol/LPG/NG – Biomethane/Ethanol/Biodiesel/Hydrogen (4)
26.1. Mono fuel/Bi fuel/Flex fuel/Dual-fuel (4)
26.2. (Dual-fuel only) Type 1A/Type 1B/Type 2A/Type 2B/Type 3B (4)
27. Maximum power
27.1. Maximum net power (159): … kW at … min–1 (internal...
27.3. Maximum net power: … kW (electric motor) (4) (112)
27.4. Maximum 30 minutes power: … kW (electric motor) (4) (112)...
28. Gearbox (type): …
28.1. Gearbox ratios (to complete for vehicles with manual shift transmissions)...
28.1.1. Final drive ratio (if applicable): …
28.1.2. Final drive ratios (to complete if and where applicable)

Maximum speed

29. Maximum speed: … km/h

Axles and suspension

30. Axle(s) track:
33. Drive axle(s) fitted with air suspension or equivalent: yes/no (4)...
35. Fitted tyre/wheel combination/energy efficiency class of rolling resistance coefficients (RRC)...

Brakes

36. Trailer brake connections mechanical/electric/pneumatic/hydraulic (4)
37. Pressure in feed line for trailer braking system: … kPa...

Bodywork

38. Code for bodywork (113): …
39. Class of vehicle: class I/Class II/Class III/Class A/Class B (4)...
41. Number and configuration of doors: …
42. Number of seating positions (including the driver) (115): …

42.1. Seat(s) designated for use only when the vehicle is stationary:...
42.3. Number of wheelchair user accessible position: …
43. Number of standing places: …
Coupling device
44. Number of the approval certificate or approval mark of coupling...
45.1. Characteristics values (4): D: …/V: …/S: …/U: …
Environmental performances
46. Sound level
47. Exhaust emission level (116): Euro …
47.1. Parameters for emission testing of Vind (1)
47.1.1. Test mass, kg: …
47.1.2. Frontal area, m2 (161): …
47.1.2.1 Projected frontal area of air entrance of the front grille...
47.1.3. Road load coefficients
47.1.3.0 f0, N:
47.1.3.1 f1, N/(km/h):
47.1.3.2 f2, N/(km/h) (2)
47.2. Driving cycle (1)
47.2.1. Driving Cycle class: 1/2/3a/3b
47.2.2. Downscaling factor (fdsc): …
47.2.3. Capped speed: yes/no (4)
48. Exhaust emissions (162) (163) (164):
48.1. Smoke corrected absorption coefficient: … (m–1)
48.2. Declared maximum RDE values (if applicable)
49. CO2 emissions/fuel consumption/electric energy consumption (162) (1):
1. All power trains, except pure electric vehicles (if applicable)
2. Pure electric vehicles and OVC hybrid electric vehicles (if applicable)...
4. All power trains, except pure electric vehicle, under Commission Regulation...
5. Pure electric vehicles and OVC hybrid electric vehicles, under Commission...
5.1. Pure electric vehicles
5.2. OVC hybrid electric vehicles
Miscellaneous
51. For special purpose vehicles: designation in accordance with point 5...
52. Remarks (165): …

PART 2 VEHICLE CATEGORY M3

General construction characteristics
1. Number of axles: … and wheels (5): …
1.1. Number and position of axles with twin wheels: … 2....
3. Powered axles (number, position, interconnection): … …
3.1. Specify if the vehicle is non-automated/automated/ fully automated (8)
Main dimensions

4. Wheelbase (157): … mm
4.1. Axle spacing:
5. Length: … mm
5.2. Elongated Cabs complying with Appendix 5 of Annex I to...
5.3. Vehicle equipped with aerodynamic device or equipment on the front/rear/not...
6. Width: … mm
7. Height: … mm
9. Distance between the front end of the vehicle and the...
12. Rear overhang: … mm

Masses (158)

13. Mass in running order: … kg
13.1. Distribution of this mass amongst the axles:
13.2. Actual mass of the vehicle: … kg
13.3. Additional mass for alternative propulsion: … kg
16. Technically permissible maximum masses
16.1. Technically permissible maximum laden mass: … kg
16.2. Technically permissible mass on each axle:
16.3. Technically permissible mass on each axle group:
16.4. Technically permissible maximum mass of the combination: … kg
17. Intended registration/in service maximum permissible masses in national/international traffic (4)...
17.1. Intended registration/in service maximum permissible laden mass: … kg
17.1. Intended registration/in service maximum permissible laden mass: … kg
17.2. Intended registration/in service maximum permissible laden mass on each axle:...
17.3. Intended registration/in service maximum permissible laden mass on each axle...
17.4. Intended registration/in service maximum permissible mass of the combination: …...
18. Technically permissible maximum towable mass in case of:
18.1. Drawbar trailer: … kg
18.3. Centre-axle trailer: … kg
18.4. Unbraked trailer: … kg
19. Technically permissible maximum static mass at the coupling point: …...

Power plant

20. Manufacturer of the engine: …
21. Engine code as marked on the engine: …
22. Working principle: …
23. Pure electric: yes/no (4)
23.1. Class of Hybrid [electric] vehicle: OVC-HEV/NOVC-HEV/OVC-FCHV/NOVC-FCHV (4)
24. Number and arrangement of cylinders: …
25. Engine capacity: … cm3
26. Fuel: Diesel/petrol/LPG/NG – Biomethane/Ethanol/ Biodiesel/Hydrogen (4)
26.1. Mono fuel/Bi fuel/Flex fuel/Dual-fuel (4)

26.2. (Dual-fuel only) Type 1A/Type 1B/Type 2A/Type 2B/ Type 3B (4)
27. Maximum power
27.1. Maximum net power (159): … kW at … min–1 (internal...
27.3. Maximum net power: … kW (electric motor) (4) (112)
27.4. Maximum 30 minutes power: … kW (electric motor) (4) (112)...
28. Gearbox (type): …

Maximum speed

29. Maximum speed: … km/h

Axles and suspension

30. Axle(s) track:
32. Position of loadable axle(s): …
33. Drive axle(s) fitted with air suspension or equivalent: yes/no (4)...
35. Tyre/wheel combination (160): …

Brakes

36. Trailer brake connections mechanical/electric/ pneumatic/hydraulic (4)
37. Pressure in feed line for trailer braking system: … kPa...

Bodywork

38. Code for bodywork (113): …
39. Class of vehicle: class I/Class II/Class III/Class A/ Class B (4)...
41. Number and configuration of doors: …
42. Number of seating positions (including the driver) (115): …
42.1. Seat(s) designated for use only when the vehicle is stationary:...
42.2. Number of passenger seating positions: … (lower deck) … (upper...
42.3. Number of wheelchair user accessible position: …
43. Number of standing places: …

Coupling device

44. Number of the approval certificate or approval mark of coupling...
45.1. Characteristics values (4): D: …/V: …/S: …/U: …
46. Sound level
47. Exhaust emission level (116): Euro …
48. Exhaust emissions (162) (163) (164):
48.1. Smoke corrected absorption coefficient: … (m–1)

Miscellaneous

51. For special purpose vehicles: designation in accordance with point 5...
52. Remarks (165): …

PART 2 VEHICLE CATEGORY N1

General construction characteristics

1. Number of axles: … and wheels (5): …
1.1. Number and position of axles with twin wheels: …
3. Powered axles (number, position, interconnection): … …

3.1. Specify if the vehicle is non-automated/automated/ fully automated (8)

Main dimensions

4. Wheelbase (157): … mm

4.1. Axle spacing:

5. Length: … mm

6. Width: … mm

7. Height: … mm.

8. Fifth wheel lead for semi-trailer towing vehicle (maximum and minimum):...

9. Distance between the front end of the vehicle and the...

11. Length of the loading area: … mm

Masses158

13. Mass in running order: … kg

13.1. Distribution of this mass amongst the axles:

13.2. Actual mass of the vehicle: … kg

14. Mass of the base vehicle in running order: … kg...

16. Technically permissible maximum masses

16.1. Technically permissible maximum laden mass: … kg

16.2. Technically permissible mass on each axle:

16.4. Technically permissible maximum mass of the combination: … kg

18. Technically permissible maximum towable mass in case of:

18.1. Drawbar trailer: … kg

18.2. Semi-trailer: … kg

18.3. Centre-axle trailer: … kg

18.4. Unbraked trailer: … kg

19. Technically permissible maximum static mass at the coupling point: …...

Power plant

20. Manufacturer of the engine: …

21. Engine code as marked on the engine: …

22. Working principle: …

23. Pure electric: yes/no (4)

23.1. Class of Hybrid [electric] vehicle: OVC-HEV/NOVC-HEV/OVC-FCHV/NOVC-FCHV (4)

24. Number and arrangement of cylinders: …

25. Engine capacity: … cm3

26. Fuel: Diesel/petrol/LPG/NG – Biomethane/Ethanol/ Biodiesel/Hydrogen (4)

26.1. Mono fuel/Bi fuel/Flex fuel/Dual-fuel (4)

26.2. (Dual-fuel only) Type 1A/Type 1B/Type 2A/Type 2B/ Type 3B (4)

27. Maximum power

27.1. Maximum net power (159): … kW at … min–1 (internal...

27.3. Maximum net power: … kW (electric motor) (4) (112)

27.4. Maximum 30 minutes power: … kW (electric motor) (4) (112)...

28. Gearbox (type): …

28.1. Gearbox ratios (to complete for vehicles with manual shift transmissions)...

28.1.1. Final drive ratio (if applicable): …
28.1.2. Final drive ratios (to complete if and where applicable)
Maximum speed
29. Maximum speed: … km/h
Axles and suspension
30. Axle(s) track:
35. Fitted tyre/wheel combination/energy efficiency class of rolling resistance coefficients (RRC)...
Brakes
36. Trailer brake connections mechanical/electric/ pneumatic/hydraulic (4)
37. Pressure in feed line for trailer braking system: … kPa...
38. Code for bodywork (113): …
40. Colour of vehicle (114): …
41. Number and configuration of doors: …
42. Number of seating positions (including the driver) (115): …
Coupling device
44. Number of the approval certificate or approval mark of coupling...
45.1. Characteristics values (4): D: …/V: …/S: …/U: …
Environmental performances
46. Sound level
47. Exhaust emission level (116): Euro …
47.1. Parameters for emission testing of Vind (1)
47.1.1. Test mass, kg: …
47.1.2. Frontal area, m2 (161): …
47.1.2.1 Projected frontal area of air entrance of the front grille...
47.1.3. Road load coefficients
47.1.3.0 f0, N: …
47.1.3.1 f1, N/(km/h): …
47.1.3.2 f2, N/(km/h) (2): …
47.2. Driving cycle (1)
47.2.1. Driving Cycle class: 1/2/3a/3b (4)
47.2.2. Downscaling factor (fdsc): …
47.2.3. Capped speed: yes/no (4)
48. Exhaust emissions (162) (163) (164):
48.1. Smoke corrected absorption coefficient: … (m–1)
48.2. Declared maximum RDE values (if applicable)
49. CO2 emissions/fuel consumption/electric energy consumption (162) (1):
1. All power trains, except pure electric vehicles (if applicable)
2. Pure electric vehicles and OVC hybrid electric vehicles (if applicable)...
3. Vehicle fitted with eco-innovation(s): yes/no (4)
3.1. General code of the eco-innovation(s) (151)
3.2. Total CO2 emissions saving due to the eco-innovation(s) (68) (repeat...
3.2.1. NEDC savings:… g/km (if applicable)
3.2.2. WLTP savings:… g/km (if applicable)

4. All power trains except pure electric vehicles under Commission Regulation...
5. Pure electric vehicles and OVC hybrid electric vehicles, under Commission...
5.1. Pure electric vehicles (4) or (if applicable)
5.2. OVC hybrid electric vehicles (4) or (if applicable)

Miscellaneous

50. Type-approved in accordance with the design requirements for transporting dangerous...
51. For special purpose vehicles: designation in accordance with point 5...
52. Remarks (165): …

PART 2 VEHICLE CATEGORY N2

General construction characteristics

1. Number of axles: … and wheels (5): …
1.1. Number and position of axles with twin wheels: …2. Steered...
3. Powered axles (number, position, interconnection): …
3.1. Specify if the vehicle is non-automated/automated/ fully automated (8)

Main dimensions

4. Wheelbase (157): … mm
4.1. Axle spacing:
5. Length: … mm
5.2. Elongated Cabs complying with Appendix 5 of Annex I to...
5.3. Vehicle equipped with aerodynamic device or equipment on the front/rear/not...
6. Width: … mm
7. Height (1): … mm
8. Fifth wheel lead for semi-trailer towing vehicle (maximum and minimum):...
9. Distance between the front end of the vehicle and the...
11. Length of the loading area: … mm
12. Rear overhang: … mm

Masses (158)

13. Mass in running order: … kg
13.1. Distribution of this mass amongst the axles:
13.2. Actual mass of the vehicle: … kg
13.3. Additional mass for alternative propulsion: … kg
16. Technically permissible maximum masses
16.1. Technically permissible maximum laden mass: … kg
16.2. Technically permissible mass on each axle:
16.3. Technically permissible mass on each axle group:
16.4. Technically permissible maximum mass of the combination: … kg
17. Intended registration/in service maximum permissible masses in national/international traffic (4)...
17.1. Intended registration/in service maximum permissible laden mass: … kg
17.2. Intended registration/in service maximum permissible laden mass on each axle:...

17.3. Intended registration/in service maximum permissible laden mass on each axle...
17.4. Intended registration/in service maximum permissible mass of the combination: …...
18. Technically permissible maximum towable mass in case of:
18.1. Drawbar trailer: … kg
18.2. Semi-trailer: … kg
18.3. Centre-axle trailer: … kg
18.3.1. Rigid drawbar trailer: … kg
18.4. Unbraked trailer: … kg
19. Technically permissible maximum static mass at the coupling point: …...

Power plant

20. Manufacturer of the engine: …
21. Engine code as marked on the engine: …
22. Working principle: …
23. Pure electric: yes/no (4)
23.1. Class of Hybrid [electric] vehicle: OVC-HEV/NOVC-HEV/OVC-FCHV/NOVC-FCHV (4)
24. Number and arrangement of cylinders: …
25. Engine capacity: … cm3
26. Fuel: Diesel/petrol/LPG/NG – Biomethane/Ethanol/Biodiesel/Hydrogen (4)
26.1. Mono fuel/Bi fuel/Flex fuel/Dual-fuel (4)
26.2. (Dual-fuel only) Type 1A/Type 1B/Type 2A/Type 2B/Type 3B (4)
27. Maximum power
27.1. Maximum net power (159): … kW at … min–1 (internal...
27.3. Maximum net power: … kW (electric motor) (4) (112)
27.4. Maximum 30 minutes power: … kW (electric motor) (4) (112)...
28. Gearbox (type): …
28.1. Gearbox ratios (to complete for vehicles with manual shift transmissions)...
28.1.1. Final drive ratio (if applicable): …
28.1.2. Final drive ratios (to complete if and where applicable)

Maximum speed

29. Maximum speed: … km/h

Axles and suspension

31. Position of lift axle(s): …
32. Position of loadable axle(s): …
33. Drive axle(s) fitted with air suspension or equivalent: yes/no (4)...
35. Fitted tyre/wheel combination/energy efficiency class of rolling resistance coefficients (RRC)...

Brakes

36. Trailer brake connections mechanical/electric/pneumatic/hydraulic (4)
37. Pressure in feed line for trailer braking system: … kPa...

Bodywork

38. Code for bodywork (113): …
41. Number and configuration of doors: …
42. Number of seating positions (including the driver) (115): …

Coupling device

44. Number of the approval certificate or approval mark of coupling...
45.1. Characteristics values (4): D: …/V: …/S: …/U: …

Environmental performances

46. Sound level
47. Exhaust emission level (116): Euro …
47.1. Parameters for emission testing of Vind (1)
47.1.1. Test mass, kg: …
47.1.2. Frontal area, m2 (161): …
47.1.2.1 Projected frontal area of air entrance of the front grille...
47.1.3. Road load coefficients
47.1.3.0 f0, N: …
47.1.3.1 f1, N/(km/h): …
47.1.3.2 f2, N/(km/h) (2): …
47.2. Driving cycle (1)
47.2.1. Driving Cycle class: 1/2/3a/3b (4)
47.2.2. Downscaling factor (fdsc): …
47.2.3. Capped speed: yes/no (4)
48. Exhaust emissions (162) (163) (164):
48.1. Smoke corrected absorption coefficient: … (m–1)
48.2. Declared maximum RDE values (if applicable)
49. CO2 emissions/fuel consumption/electric energy consumption (162) (1):
1. All power trains, except pure electric vehicles (if applicable)
2. Pure electric vehicles and OVC hybrid electric vehicles (if applicable)...
4. All power trains except pure electric vehicles under Commission Regulation...
5. Pure electric vehicles and OVC hybrid electric vehicles, under Commission...
5.1. Pure electric vehicles (4) or (if applicable)
5.2. OVC hybrid electric vehicles (4) or (if applicable)
49.1. Cryptographic hash of the manufacturer's records file (119): .....
49.2. Zero emission heavy-duty vehicle: yes/no (4) (72) (169)
49.3. Vocational vehicle: (yes/no) (4) (72) (170)
49.4. Cryptographic hash of the customer information file: ..... (120) (170)...
49.5. Specific CO2 emissions: ... gCO2/tkm (171)
49.6. Average payload value: ..... t' (172)

Miscellaneous

50. Type-approved in accordance with the design requirements for transporting dangerous...

51. For special purpose vehicles: designation in accordance with point 5...
52. Remarks (165): …

PART 2 VEHICLE CATEGORY N3

General construction characteristics

1. Number of axles: … and wheels (5): …
1.1. Number and position of axles with twin wheels: …
2. Steered axles (number, position): …
3. Powered axles (number, position, interconnection): … …
3.1. Specify if the vehicle is non-automated/automated/ fully automated (8)

Main dimensions

4. Wheelbase (157): … mm
4.1. Axle spacing:
5. Length: … mm
5.2. Elongated Cabs complying with Appendix 5 of Annex I to...
5.3. Vehicle equipped with aerodynamic device or equipment on the front/rear/not...
6. Width: … mm
7. Height: … mm.
8. Fifth wheel lead for semi-trailer towing vehicle (maximum and minimum):...
9. Distance between the front end of the vehicle and the...
11. Length of the loading area: … mm
12. Rear overhang: … mm

Masses (158)

13. Mass in running order: … kg
13.1. Distribution of this mass amongst the axles:
13.2. Actual mass of the vehicle: … kg
13.3. Additional mass for alternative propulsion: … kg
16. Technically permissible maximum masses
16.1. Technically permissible maximum laden mass: … kg
16.2. Technically permissible mass on each axle:
16.3. Technically permissible mass on each axle group:
16.4. Technically permissible maximum mass of the combination: … kg
17. Intended registration/in service maximum permissible masses in national/international traffic (4)...
17.1. Intended registration/in service maximum permissible laden mass: … kg
17.2. Intended registration/in service maximum permissible laden mass on each axle:...
17.3. Intended registration/in service maximum permissible laden mass on each axle...
17.4. Intended registration/in service maximum permissible mass of the combination: …...
18. Technically permissible maximum towable mass in case of:
18.1. Drawbar trailer: … kg
18.2. Semi-trailer: … kg
18.3. Centre-axle trailer: … kg

18.3.1. Rigid drawbar trailer: … kg
18.4. Unbraked trailer: … kg
19. Technically permissible maximum static mass at the coupling point: …...

Power plant

20. Manufacturer of the engine: …
21. Engine code as marked on the engine: …
22. Working principle: …
23. Pure electric: yes/no (4)
23.1. Class of Hybrid [electric] vehicle: OVC-HEV/NOVC-HEV/OVC-FCHV/NOVC-FCHV (4)
24. Number and arrangement of cylinders: …
25. Engine capacity: … cm3
26. Fuel: Diesel/petrol/LPG/NG – Biomethane/Ethanol/ Biodiesel/Hydrogen(4)
26.1. Mono fuel/Bi fuel/Flex fuel/Dual-fuel (4)
26.2. (Dual-fuel only) Type 1A/Type 1B/Type 2A/Type 2B/ Type 3B (4)
27. Maximum power
27.1. Maximum net power (159): … kW at … min–1 (internal...
27.3. Maximum net power: … kW (electric motor) (4) (112)
27.4. Maximum 30 minutes power: … kW (electric motor) (4) (112)...
28. Gearbox (type): …

Maximum speed

29. Maximum speed: … km/h

Axles and suspension

31. Position of lift axle(s): …
32. Position of loadable axle(s): …
33. Drive axle(s) fitted with air suspension or equivalent: yes/no (4)...
35. Tyre/wheel combination (160): …

Brakes

36. Trailer brake connections mechanical/electric/ pneumatic/hydraulic (4)
37. Pressure in feed line for trailer braking system: … kPa...

Bodywork

38. Code for bodywork (113): …
41. Number and configuration of doors: …
42. Number of seating positions (including the driver) (115): …

Coupling device

44. Number of the approval certificate or approval mark of coupling...
45.1. Characteristics values (4): D: …/V: …/S: …/U: …

Environmental performances

46. Sound level
47. Exhaust emission level (116): Euro …
48. Exhaust emissions (162) (163) (164):
48.1. Smoke corrected absorption coefficient: … (m–1)

49. CO2 emissions/fuel consumption/electric energy consumption
49.1. Cryptographic hash of the manufacturer's records file (119): .....
49.2. Zero emission heavy-duty vehicle: yes/no (4) (72) (169)
49.3. Vocational vehicle: (yes/no) (4) (72) (170)
49.4. Cryptographic hash of the customer information file: ..... (120) (170)...
49.5. Specific CO2 emissions: ... gCO2/tkm (171)
49.6. Average payload value: ..... t' (172)

Miscellaneous

50. Type-approved in accordance with the design requirements for transporting dangerous...
51. For special purpose vehicles: designation in accordance with point 5...
52. Remarks (165): …

PART 2 VEHICLE CATEGORIES O1 AND O2

General construction characteristics

1. Number of axles: … and wheels (5): …
1.1. Number and position of axles with twin wheels: …

Main dimensions

4. Wheelbase (157) (174): … mm
4.1. Axle spacing:
5. Length: … mm
6. Width: … mm
7. Height: … mm
10. Distance between the centre of the coupling device and the...
11. Length of the loading area: … mm
12. Rear overhang: … mm

Masses (158)

13. Mass in running order: … kg
13.1. Distribution of this mass amongst the axles:
13.2. Actual mass of the vehicle: … kg
16. Technically permissible maximum masses
16.1. Technically permissible maximum laden mass: … kg
16.2. Technically permissible mass on each axle:
16.3. Technically permissible mass on each axle group:
17. Intended registration/in service maximum permissible masses in national/international traffic (4)...
17.1. Intended registration/in service maximum permissible laden mass: … kg
17.2. Intended registration/in service maximum permissible laden mass on each axle:...
17.3. Intended registration/in service maximum permissible laden mass on each axle...
19. Technically permissible maximum static mass on the coupling point of...

Maximum speed

29. Maximum speed: … km/h

Axles and suspension

30.1. Track of each steered axle: … mm
30.2. Track of all other axles: … mm
31. Position of lift axle(s): …
32. Position of loadable axle(s): …
34. Axle(s) fitted with air suspension or equivalent: yes/no (4)
35. Tyre/wheel combination (160): …

Brakes

36. Trailer brake connections mechanical/electric/pneumatic/hydraulic (4)

Bodywork

38. Code for bodywork (113): …

Coupling device

44. Number of the approval certificate or approval mark of coupling...
45.1. Characteristics values (4): D: …/V: …/S: …/U: …

Miscellaneous

50. Type-approved in accordance with the design requirements for transporting dangerous...
51. For special purpose vehicles: designation in accordance with point 5...
52. Remarks (165): …

PART 2 VEHICLE CATEGORIES O3 AND O4

General construction characteristics

1. Number of axles: … and wheels (5): …
1.1. Number and position of axles with twin wheels: …
2. Steered axles (number, position): …

Main dimensions

4. Wheelbase (157) (174): … mm
4.1. Axle spacing:
5. Length: … mm
5.3. Vehicle equipped with aerodynamic device or equipment on the rear/not...
6. Width: … mm
7. Height: … mm
10. Distance between the centre of the coupling device and the...
11. Length of the loading area: … mm
12. Rear overhang: … mm

Masses (158)

13. Mass in running order: … kg
13.1. Distribution of this mass amongst the axles:
13.2. Actual mass of the vehicle: … kg
16. Technically permissible maximum masses
16.1. Technically permissible maximum laden mass: … kg
16.2. Technically permissible mass on each axle:
16.3. Technically permissible mass on each axle group:
17. Intended registration/in service maximum permissible masses in national/international traffic (4)...
17.1. Intended registration/in service maximum permissible laden mass: … kg
17.2. Intended registration/in service maximum permissible laden mass on each axle:...

17.3. Intended registration/in service maximum permissible laden mass on each axle...
19. Technically permissible maximum static mass on the coupling point of...

Maximum speed

29. Maximum speed: … km/h

Axles and suspension

31. Position of lift axle(s): …
32. Position of loadable axle(s): …
34. Axle(s) fitted with air suspension or equivalent: yes/no (4)
35. Tyre/wheel combination (160): …

Brakes

36. Trailer brake connections mechanical/electric/pneumatic/hydraulic (4)

Bodywork

38. Code for bodywork (113): …

Coupling device

44. Number of the approval certificate or approval mark of coupling...
45.1. Characteristics values (4): D: …/V: …/S: …/U: …

Miscellaneous

50. Type-approved in accordance with the design requirements for transporting dangerous...
51. For special purpose vehicles: designation in accordance with point 5...
52. Remarks (165): …

PART IIIINCOMPLETE VEHICLES

MODELINCOMPLETE VEHICLES

CERTIFICATE OF CONFORMITY

0.1. Make (Trade name of manufacturer): …
0.2. Type: …
0.2.1. Commercial name(s): …
0.2.2. For multi-stage approved vehicles, type-approval information of the base/previous stages...
0.2.3. Identifiers (if applicable) (161):
0.2.3.1. Interpolation family's identifier: …
0.2.3.2. ATCT family's identifier: …
0.2.3.3. PEMS family's identifier: …
0.2.3.4. Roadload family's identifier: …
0.2.3.5. Roadload Matrix family's identifier (if applicable): …
0.2.3.6. Periodic regeneration family's identifier: …
0.2.3.7. Evaporative test family's identifier: …
0.4. Vehicle category: …
0.5. Company name and address of manufacturer: …
0.5.1. For multi-stage approved vehicles, company name and address of the...
0.6. Location and method of attachment of the statutory plates: …...
0.9. Name and address of the manufacturer's representative (if any): …...
0.10. Vehicle identification number: …
0.11. Date of manufacture of the vehicle: …

MODEL INCOMPLETE VEHICLES TYPE-APPROVED IN SMALL SERIES

CERTIFICATE OF CONFORMITY

0.1. Make (Trade name of manufacturer): …
0.2. Type: …
0.2.1. Commercial name(s): …
0.2.3. Identifiers (if applicable) (161):
0.2.3.1. Interpolation family's identifier: …
0.2.3.2. ATCT family's identifier: …
0.2.3.3. PEMS family's identifier: …
0.2.3.4. Roadload family's identifier:…
0.2.3.5. Roadload Matrix family's identifier (if applicable): …
0.2.3.6. Periodic regeneration family's identifier: …
0.2.3.7. Evaporative test family's identifier: …
0.4. Vehicle category: …
0.5. Company name and address of manufacturer: …
0.6. Location and method of attachment of the statutory plates: …...
0.9. Name and address of the manufacturer's representative (if any): …...
0.10. Vehicle identification number: …
0.11. Date of manufacture of the vehicle: …

PART 2 VEHICLE CATEGORY M1

General construction characteristics

1. Number of axles: … and wheels (5): …
3. Powered axles (number, position, interconnection): … …
3.1. Specify if the vehicle is non-automated/automated/ fully automated (8)

Main dimensions

4. Wheelbase (157): … mm
4.1. Axle spacing:
5.1. Maximum permissible length: … mm
6.1. Maximum permissible width: … mm
7.1. Maximum permissible height: … mm
12.1. Maximum permissible rear overhang: … mm

Masses (158)

14. Mass in running order of the incomplete vehicle: … kg...
14.1. Distribution of this mass amongst the axles:
15. Minimum mass of the vehicle when completed: … kg
15.1. Distribution of this mass amongst the axles:
16. Technically permissible maximum masses
16.1. Technically permissible maximum laden mass: … kg
16.2. Technically permissible mass on each axle:
16.4. Technically permissible maximum mass of the combination: … kg
18. Technically permissible maximum towable mass in case of:
18.1. Drawbar trailer: … kg
18.3. Centre-axle trailer: … kg
18.4. Unbraked trailer: … kg
19. Technically permissible maximum static vertical mass at the coupling point:...

Power plant
20. Manufacturer of the engine: …
21. Engine code as marked on the engine: …
22. Working principle: …
23. Pure electric: yes/no (4)
23.1. Class of Hybrid [electric] vehicle: OVC-HEV/NOVC-HEV/OVC-FCHV/NOVC-FCHV (4)
24. Number and arrangement of cylinders: …
25. Engine capacity: … cm3
26. Fuel: Diesel/petrol/LPG/NG – Biomethane/Ethanol/ Biodiesel/Hydrogen (4)
26.1. Mono fuel/Bi fuel/Flex fuel/Dual-fuel (4)
26.2. (Dual-fuel only) Type 1A/Type 1B/Type 2A/Type 2B/ Type 3B (4)
27. Maximum power
27.1. Maximum net power (159): … kW at … min–1 (internal...
27.3. Maximum net power: … kW (electric motor) (4) (112)
27.4. Maximum 30 minutes power: … kW (electric motor) (4) (112)...
28. Gearbox (type): …
28.1. Gearbox ratios (to complete for vehicles with manual shift transmissions)...
28.1.1. Final drive ratio (if applicable): …
28.1.2. Final drive ratios (to complete if and where applicable)
Maximum speed
29. Maximum speed: … km/h
Axles and suspension
30. Axle(s) track:
35. Fitted tyre/wheel combination/energy efficiency class of rolling resistance coefficients (RRC)...
Brakes
36. Trailer brake connections mechanical/electric/ pneumatic/hydraulic (4)
Bodywork
41. Number and configuration of doors: …
42. Number of seating positions (including the driver) (115): …
Environmental performances
46. Sound level
47. Exhaust emission level (116): Euro …
47.1. Parameters for emission testing of Vind (1)
47.1.1. Test mass, kg: …
47.1.2. Frontal area, m2 (161): …
47.1.2.1 Projected frontal area of air entrance of the front grille...
47.1.3. Road load coefficients
47.1.3.0 f0, N:
47.1.3.1 f1, N/(km/h):
47.1.3.2 f2, N/(km/h) (2)
47.2. Driving cycle (1)
47.2.1. Driving Cycle class: 1/2/3a/3b
47.2.2. Downscaling factor (fdsc): …

47.2.3. Capped speed: yes/no (4)
48. Exhaust emissions (162) (163) (164):
48.1. Smoke corrected absorption coefficient: … (m–1)
49. CO2 emissions/fuel consumption/electric energy consumption (162) (1):
1. All power trains, except pure electric vehicles (if applicable)
2. Pure electric vehicles and OVC hybrid electric vehicles (if applicable)...
3. Vehicle fitted with eco-innovation(s): yes/no (4)
3.1. General code of the eco-innovation(s) (151): …
3.2. Total CO2 emissions savings due to the eco-innovation(s) (68) (repeat...
3.2.1. NEDC savings: … g/km (if applicable)
3.2.2. WLTP savings: … g/km (if applicable)
4. All power trains, except pure electric vehicle, under Commission Regulation...
5. Pure electric vehicles and OVC hybrid electric vehicles, under Commission...
5.1. Pure electric vehicles
5.2. OVC hybrid electric vehicles

Miscellaneous

52. Remarks (165): …

PART 2 VEHICLE CATEGORY M2

General construction characteristics

1. Number of axles: … and wheels (5): …
1.1. Number and position of axles with twin wheels: …
2. Steered axles (number, position): …
3. Powered axles (number, position, interconnection): … …
3.1. Specify if the vehicle is non-automated/automated/ fully automated (8)

Main dimensions

4. Wheelbase (157) (6): … mm
4.1. Axle spacing:
5.1. Maximum permissible length: … mm
5.2. Elongated Cabs complying with Appendix 5 of Annex I to...
5.3. Vehicle equipped with aerodynamic device or equipment on the front/rear/not...
6.1. Maximum permissible width: … mm
7.1. Maximum permissible height: … mm
12.1. Maximum permissible rear overhang: … mm

Masses (158)

13.3. Additional mass for alternative propulsion: … kg
14. Mass in running order of the incomplete vehicle: … kg...
14.1. Distribution of this mass amongst the axles:
15. Minimum mass of the vehicle when completed: … kg
15.1. Distribution of this mass amongst the axles:
16. Technically permissible maximum masses
16.1. Technically permissible maximum laden mass: … kg
16.2. Technically permissible mass on each axle:

16.3. Technically permissible mass on each axle group:
16.4. Technically permissible maximum mass of the combination: … kg
17. Intended registration/in service maximum permissible masses in national/international traffic (4)...
17.1. Intended registration/in service maximum permissible laden mass: … kg
17.2. Intended registration/in service maximum permissible laden mass on each axle:...
17.3. Intended registration/in service maximum permissible laden mass on each axle...
17.4. Intended registration/in service maximum permissible mass of the combination: …...
18. Technically permissible maximum towable mass in case of:
18.1. Drawbar trailer: … kg
18.3. Centre-axle trailer: … kg
18.4. Unbraked trailer: … kg
19. Technically permissible maximum static mass at the coupling point: …...

Power plant

20. Manufacturer of the engine: …
21. Engine code as marked on the engine: …
22. Working principle: …
23. Pure electric: yes/no (4)
23.1. Class of Hybrid [electric] vehicle: OVC-HEV/NOVC-HEV/OVC-FCHV/NOVC-FCHV (4)
24. Number and arrangement of cylinders: …
25. Engine capacity: … cm3
26. Fuel: Diesel/petrol/LPG/NG – Biomethane/Ethanol/Biodiesel/Hydrogen
26.1. Mono fuel/Bi fuel/Flex fuel/Dual-fuel (4)
26.2. (Dual-fuel only) Type 1A/Type 1B/Type 2A/Type 2B/Type 3B (4)
27. Maximum power
27.1. Maximum net power (159): … kW at … min–1 (internal...
27.3. Maximum net power: … kW (electric motor) (4) (112)
27.4. Maximum 30 minutes power: … kW (electric motor) (4) (112)...
28. Gearbox (type): …
28.1. Gearbox ratios (to complete for vehicles with manual shift transmissions)...
28.1.1. Final drive ratio (if applicable): …
28.1.2. Final drive ratios (to complete if and where applicable)

Maximum speed

29. Maximum speed: … km/h

Axles and suspension

30. Axle(s) track:
33. Drive axle(s) fitted with air suspension or equivalent: yes/no (4)...
35. Fitted tyre/wheel combination/energy efficiency class of rolling resistance coefficients (RRC)...

Brakes
36. Trailer brake connections mechanical/electric/ pneumatic/hydraulic (4)
37. Pressure in feed line for trailer braking system: … kPa...

Coupling device
44. Number of the approval certificate or approval mark of coupling...
45. Type or classes of coupling devices which can be fitted:...
45.1. Characteristics values (4): D: …/V: …/S: …/U: …

Environmental performances
46. Sound level
47. Exhaust emission level (116): Euro …
47.1. Parameters for emission testing of Vind (1)
47.1.1. Test mass, kg: …
47.1.2. Frontal area, m2 (161): …
47.1.2.1 Projected frontal area of air entrance of the front grille...
47.1.3. Road load coefficients
47.1.3.0 f0, N: …
47.1.3.1 f1, N/(km/h): …
47.1.3.2 f2, N/(km/h) (2): …
47.2. Driving cycle (1)
47.2.1. Driving Cycle class: 1/2/3a/3b (4)
47.2.2. Downscaling factor (fdsc): …
47.2.3. Capped speed: yes/no (4)
48. Exhaust emissions (162) (163) (164):
48.1. Smoke corrected absorption coefficient: … (m–1)
49. CO2 emissions/fuel consumption/electric energy consumption (162) (1):
1. All power trains, except pure electric vehicles (if applicable)
2. Pure electric vehicles and OVC hybrid electric vehicles (if applicable)...
4. All power trains, except pure electric vehicle, under Commission Regulation...
5. Pure electric vehicles and OVC hybrid electric vehicles, under Commission...
5.1. Pure electric vehicles
5.2. OVC hybrid electric vehicles

Miscellaneous
52. Remarks (165): …

PART 2 VEHICLE CATEGORY M3

General construction characteristics
1. Number of axles: … and wheels (5): …
1.1. Number and position of axles with twin wheels: …
2. Steered axles (number, position): …
3. Powered axles (number, position, interconnection): … …
3.1. Specify if the vehicle is non-automated/automated/ fully automated (8)

Main dimensions

4. Wheelbase (157) (6): … mm
4.1. Axle spacing:
5.1. Maximum permissible length: … mm
5.2. Elongated Cabs complying with Appendix 5 of Annex I to...
5.3. Vehicle equipped with aerodynamic device or equipment on the front/rear/not...
6.1. Maximum permissible width: … mm
7.1. Maximum permissible height: … mm
12.1. Maximum permissible rear overhang: … mm

Masses (158)

13.3. Additional mass for alternative propulsion: … kg
14. Mass in running order of the incomplete vehicle: … kg...
14.1. Distribution of this mass amongst the axles:
15. Minimum mass of the vehicle when completed: … kg
15.1. Distribution of this mass amongst the axles:
16. Technically permissible maximum masses
16.1. Technically permissible maximum laden mass: … kg
16.2. Technically permissible mass on each axle:
16.3. Technically permissible mass on each axle group:
16.4. Technically permissible maximum mass of the combination: … kg
17. Intended registration/in service maximum permissible masses in national/international traffic (4)...
17.1. Intended registration/in service maximum permissible laden mass: … kg
17.2. Intended registration/in service maximum permissible laden mass on each axle:...
17.3. Intended registration/in service maximum permissible laden mass on each axle...
17.4. Intended registration/in service maximum permissible mass of the combination: …...
18. Technically permissible maximum towable mass in case of:
18.1. Drawbar trailer: … kg
18.3. Centre-axle trailer: … kg
18.4. Unbraked trailer: … kg
19. Technically permissible maximum static mass at the coupling point: …...

Power plant

20. Manufacturer of the engine: …
21. Engine code as marked on the engine: …
22. Working principle: …
23. Pure electric: yes/no (4)
23.1. Class of Hybrid [electric] vehicle: OVC-HEV/NOVC-HEV/OVC-FCHV/NOVC-FCHV (4)
24. Number and arrangement of cylinders: …
25. Engine capacity: … cm3
26. Fuel: Diesel/petrol/LPG/NG – Biomethane/Ethanol/ Biodiesel/Hydrogen (4)
26.1. Mono fuel/Bi fuel/Flex fuel/Dual-fuel (4)

26.2. (Dual-fuel only) Type 1A/Type 1B/Type 2A/Type 2B/ Type 3B (4)
27. Maximum power
27.1. Maximum net power (159): … kW at … min–1 (internal...
27.3. Maximum net power: … kW (electric motor) (4) (112)
27.4. Maximum 30 minutes power: … kW (electric motor) (4) (112)...
28. Gearbox (type): …

Maximum speed

29. Maximum speed: … km/h

Axles and suspension

30.1. Track of each steered axle: … mm
30.2. Track of all other axles: … mm
32. Position of loadable axle(s): …
33. Drive axle(s) fitted with air suspension or equivalent: yes/no (4)...
35. Tyre/wheel combination (160): …

Brakes

36. Trailer brake connections mechanical/electric/ pneumatic/hydraulic (4)
37. Pressure in feed line for trailer braking system: … kPa...

Coupling device

44. Number of the approval certificate or approval mark of coupling...
45. Types or classes of coupling devices which can be fitted:...
45.1. Characteristics values (4): D: …/V: …/S: …/U: …

Environmental performances

46. Sound level
47. Exhaust emission level (116): Euro …
48. Exhaust emissions (162) (163) (164):
48.1. Smoke corrected absorption coefficient: … (m–1)

Miscellaneous

52. Remarks (165): …

PART 2 VEHICLE CATEGORY N1

General construction characteristics

1. Number of axles: … and wheels (5): …
1.1. Number and position of axles with twin wheels: …
3. Powered axles (number, position, interconnection): … …
3.1. Specify if the vehicle is non-automated/automated/ fully automated (8)

Main dimensions

4. Wheelbase (157): … mm
4.1. Axle spacing:
5.1. Maximum permissible length: … mm
6.1. Maximum permissible width: … mm
7.1. Maximum permissible height: … mm
8. Fifth wheel lead for semi-trailer towing vehicle (maximum and minimum):...
12.1. Maximum permissible rear overhang: … mm

Masses (158)

14. Mass in running order of the incomplete vehicle: … kg...
14.1. Distribution of this mass amongst the axles:
15. Minimum mass of the vehicle when completed: … kg
15.1. Distribution of this mass amongst the axles:
16. Technically permissible maximum masses
16.1. Technically permissible maximum laden mass: … kg
16.2. Technically permissible mass on each axle:
16.4. Technically permissible maximum mass of the combination: … kg
18. Technically permissible maximum towable mass in case of:
18.1. Drawbar trailer: … kg
18.2. Semi-trailer: … kg
18.3. Centre-axle trailer: … kg
18.4. Unbraked trailer: … kg
19. Technically permissible maximum static mass at the coupling point: …...

Power plant

20. Manufacturer of the engine: …
21. Engine code as marked on the engine: …
22. Working principle: …
23. Pure electric: yes/no (4)
23.1. Class of Hybrid [electric] vehicle: OVC-HEV/NOVC-HEV/OVC-FCHV/NOVC-FCHV (4)
24. Number and arrangement of cylinders: …
25. Engine capacity: … cm3
26. Fuel: Diesel/petrol/LPG/NG – Biomethane/Ethanol/ Biodiesel/Hydrogen (4)
26.1. Mono fuel/Bi fuel/Flex fuel/Dual-fuel (4)
26.2. (Dual-fuel only) Type 1A/Type 1B/Type 2A/Type 2B/ Type 3B (4)
27. Maximum power
27.1. Maximum net power (159): … kW at … min–1 (internal...
27.3. Maximum net power: … kW (electric motor) (4) (112)
27.4. Maximum 30 minutes power: … kW (electric motor) (4) (112)...
28. Gearbox (type): …
28.1. Gearbox ratios (to complete for vehicles with manual shift transmissions)...
28.1.1. Final drive ratio (if applicable): …
28.1.2. Final drive ratios (to complete if and where applicable)

Maximum speed

29. Maximum speed: … km/h

Axles and suspension

30. Axle(s) track:
35. Fitted tyre/wheel combination/energy efficiency class of rolling resistance coefficients (RRC)...

Brakes

36. Trailer brake connections mechanical/electric/ pneumatic/hydraulic (4)

37. Pressure in feed line for trailer braking system: … kPa...

Coupling device

44. Number of the approval certificate or approval mark of coupling...
45. Types or classes of coupling devices which can be fitted:...
45.1. Characteristics values (4): D: …/V: …/S: …/U: …

Environmental performances

46. Sound level
47. Exhaust emission level (116): Euro …
47.1. Parameters for emission testing of Vind (1)
47.1.1. Test mass, kg: …
47.1.2. Frontal area, m2 (161): …
47.1.2.1 Projected frontal area of air entrance of the front grille...
47.1.3. Road load coefficients
47.1.3.0 f0, N: …
47.1.3.1 f1, N/(km/h): …
47.1.3.2 f2, N/(km/h) (2): …
47.2. Driving cycle (1)
47.2.1. Driving Cycle class: 1/2/3a/3b (4)
47.2.2. Downscaling factor (fdsc): …
47.2.3. Capped speed: yes/no (4)
48. Exhaust emissions (162) (163) (164):
48.1. Smoke corrected absorption coefficient: … (m–1)
49. CO2 emissions/fuel consumption/electric energy consumption (162) (1):
1. All power trains, except pure electric vehicles (if applicable)
2. Pure electric vehicles and OVC hybrid electric vehicles (if applicable)...
3. Vehicle fitted with eco-innovation(s): yes/no (4)
3.1. General code of the eco-innovation(s) (151): …
3.2. Total CO2 emissions savings due to the eco-innovation(s) (68) (repeat...
3.2.1. NEDC savings: … g/km (if applicable)
3.2.2. WLTP savings: … g/km (if applicable)
4. All power trains, except pure electric vehicle, under Commission Regulation...
5. Pure electric vehicles and OVC hybrid electric vehicles, under Commission...
5.1. Pure electric vehicles
5.2. OVC hybrid electric vehicles

Miscellaneous

52. Remarks (165): …

PART 2 VEHICLE CATEGORY N2

General construction characteristics

1. Number of axles: … and wheels (5): …
1.1. Number and position of axles with twin wheels: …
2. Steered axles (number, position): …
3. Powered axles (number, position, interconnection): … …

3.1. Specify if the vehicle is non-automated/automated/fully automated (8)

Main dimensions

4. Wheelbase (157): … mm
4.1. Axle spacing:
5.1. Maximum permissible length: … mm
5.2. Elongated Cabs complying with Appendix 5 of Annex I to...
5.3. Vehicle equipped with aerodynamic device or equipment on the front/rear/not...
6.1. Maximum permissible width: … mm
8. Fifth wheel lead for semi-trailer towing vehicle (maximum and minimum):...
12.1. Maximum permissible rear overhang: … mm

Masses (158)

13.3. Additional mass for alternative propulsion: … kg
14. Mass in running order of the incomplete vehicle: … kg...
14.1. Distribution of this mass amongst the axles:
15. Minimum mass of the vehicle when completed: … kg
15.1. Distribution of this mass amongst the axles:
16. Technically permissible maximum masses
16.1. Technically permissible maximum laden mass: … kg
16.2. Technically permissible mass on each axle:
16.3. Technically permissible mass on each axle group:
16.4. Technically permissible maximum mass of the combination: … kg
17. Intended registration/in service maximum permissible masses in national/international traffic (4)...
17.1. Intended registration/in service maximum permissible laden mass: … kg
17.2. Intended registration/in service maximum permissible laden mass on each axle:...
17.3. Intended registration/in service maximum permissible laden mass on each axle...
17.4. Intended registration/in service maximum permissible mass of the combination: …...
18. Technically permissible maximum towable mass in case of:
18.1. Drawbar trailer: … kg
18.2. Semi-trailer: … kg
18.3. Centre-axle trailer: … kg
18.3.1. Rigid drawbar trailer: … kg
18.4. Unbraked trailer: … kg
19. Technically permissible maximum static mass at the coupling point: …...

Power plant

20. Manufacturer of the engine: …
21. Engine code as marked on the engine: …
22. Working principle: …
23. Pure electric: yes/no (4)
23.1. Class of Hybrid [electric] vehicle: OVC-HEV/NOVC-HEV/OVC-FCHV/NOVC-FCHV (4)

24. Number and arrangement of cylinders: …
25. Engine capacity: … cm3
26. Fuel: Diesel/petrol/LPG/NG – Biomethane/Ethanol/ Biodiesel/Hydrogen (4)
26.1. Mono fuel/Bi fuel/Flex fuel/Dual-fuel (4)
26.2. (Dual-fuel only) Type 1A/Type 1B/Type 2A/Type 2B/ Type 3B (4)
27. Maximum power
27.1. Maximum net power (159): … kW at … min–1 (internal...
27.3. Maximum net power: … kW (electric motor) (4) (112)
27.4. Maximum 30 minutes power: … kW (electric motor) (4) (112)...
28. Gearbox (type): …
28.1. Gearbox ratios (to complete for vehicles with manual shift transmissions)...
28.1.1. Final drive ratio (if applicable): …
28.1.2. Final drive ratios (to complete if and where applicable)

Maximum speed

29. Maximum speed: … km/h

Axles and suspension

31. Position of lift axle(s): …
32. Position of loadable axle(s): …
33. Drive axle(s) fitted with air suspension or equivalent: yes/no (4)...
35. Fitted tyre/wheel combination/energy efficiency class of rolling resistance coefficients (RRC)...

Brakes

36. Trailer brake connections mechanical/electric/ pneumatic/hydraulic (4)
37. Pressure in feed line for trailer braking system: … kPa...

Coupling device

44. Number of the approval certificate or approval mark of coupling...
45. Types or classes of coupling devices which can be fitted:...
45.1. Characteristics values (4): D: …/V: …/S: …/U: …

Environmental performances

46. Sound level
47. Exhaust emission level (116): Euro …
47.1. Parameters for emission testing of Vind (1)
47.1.1. Test mass, kg: …
47.1.2. Frontal area, m2 (161): …
47.1.2.1 Projected frontal area of air entrance of the front grille...
47.1.3. Road load coefficients
47.1.3.0 f0, N: …
47.1.3.1 f1, N/(km/h): …
47.1.3.2 f2, N/(km/h) (2): …
47.2. Driving cycle (1)
47.2.1. Driving Cycle class: 1/2/3a/3b (4)
47.2.2. Downscaling factor (fdsc): …

47.2.3. Capped speed: yes/no (4)
48. Exhaust emissions (162) (163) (164):
48.1. Smoke corrected absorption coefficient: … (m–1)
49. CO2 emissions/fuel consumption/electric energy consumption (162) (1):
1. All power trains, except pure electric vehicles (if applicable)
2. Pure electric vehicles and OVC hybrid electric vehicles (if applicable)...
4. All power trains, except pure electric vehicle, under Commission Regulation...
5. Pure electric vehicles and OVC hybrid electric vehicles, under Commission...
5.1. Pure electric vehicles
5.2. OVC hybrid electric vehicles
49.1. Cryptographic hash of the manufacturer's records file (119): .....
49.2. Zero emission heavy-duty vehicle: yes/no (4) (72) (169)
49.3. Vocational vehicle: (yes/no) (4) (72) (170)
49.4. Cryptographic hash of the customer information file: ..... (120) (170)...
49.5. Specific CO2 emissions: ... gCO2/tkm (171)
49.6. Average payload value: ..... t' (172)
Miscellaneous
52. Remarks (165): …

PART 2 VEHICLE CATEGORY N3

General construction characteristics
1. Number of axles: … and wheels (5): …
1.1. Number and position of axles with twin wheels: …
2. Steered axles (number, position): …
3. Powered axles (number, position, interconnection): … …
3.1. Specify if the vehicle is non-automated/automated/ fully automated (8)
Main dimensions
4. Wheelbase (157): … mm
4.1. Axle spacing:
5.1. Maximum permissible length: … mm
5.2. Elongated Cabs complying with Appendix 5 of Annex I to...
5.3. Vehicle equipped with aerodynamic device or equipment on the front/rear/not...
6.1. Maximum permissible width: … mm
8. Fifth wheel lead for semi-trailer towing vehicle (maximum and minimum):...
12.1. Maximum permissible rear overhang: … mm
Masses (158)
13.3. Additional mass for alternative propulsion: … kg
14. Mass in running order of the incomplete vehicle: … kg...
14.1. Distribution of this mass amongst the axles:

15. Minimum mass of the vehicle when completed: … kg
15.1. Distribution of this mass amongst the axles:
16. Technically permissible maximum masses
16.1. Technically permissible maximum laden mass: … kg
16.2. Technically permissible mass on each axle:
16.3. Technically permissible mass on each axle group:
16.4. Technically permissible maximum mass of the combination: … kg
17. Intended registration/in service maximum permissible masses in national/international traffic (4)...
17.1. Intended registration/in service maximum permissible laden mass: … kg
17.2. Intended registration/in service maximum permissible laden mass on each axle:...
17.3. Intended registration/in service maximum permissible laden mass on each axle...
17.4. Intended registration/in service maximum permissible mass of the combination: …...
18. Technically permissible maximum towable mass in case of:
18.1. Drawbar trailer: … kg
18.2. Semi-trailer: … kg
18.3. Centre-axle trailer: … kg
18.3.1. Rigid drawbar trailer: … kg
18.4. Unbraked trailer: … kg
19. Technically permissible maximum static mass at the coupling point: …...

Power plant

20. Manufacturer of the engine: …
21. Engine code as marked on the engine: …
22. Working principle: …
23. Pure electric: yes/no (4)
23.1. Class of Hybrid [electric] vehicle: OVC-HEV/NOVC-HEV/OVC-FCHV/NOVC-FCHV (4)
24. Number and arrangement of cylinders: …
25. Engine capacity: … cm3
26. Fuel: Diesel/petrol/LPG/NG – Biomethane/Ethanol/ Biodiesel/Hydrogen (4)
26.1. Mono fuel/Bi fuel/Flex fuel/Dual-fuel (4)
26.2. (Dual-fuel only) Type 1A/Type 1B/Type 2A/Type 2B/ Type 3B (4)
27. Maximum power
27.1. Maximum net power (159): … kW at … min–1 (internal...
27.3. Maximum net power: … kW (electric motor) (4) (112)
27.4. Maximum 30 minutes power: … kW (electric motor) (4) (112)...
28. Gearbox (type): …

Maximum speed

29. Maximum speed: … km/h

Axles and suspension

31. Position of lift axle(s): …
32. Position of loadable axle(s): …

33. Drive axle(s) fitted with air suspension or equivalent: yes/no (4)...
35. Tyre/wheel combination (160): …

Brakes

36. Trailer brake connections mechanical/electric/ pneumatic/hydraulic (4)
37. Pressure in feed line for trailer braking system: … kPa...

Coupling device

44. Number of the approval certificate or approval mark of coupling...
45. Types or classes of coupling devices which can be fitted:...
45.1. Characteristics values (4): D: …/V: …/S: …/U: …

Environmental performances

46. Sound level
47. Exhaust emission level (116): Euro …
48. Exhaust emissions (162) (163) (164):
48.1. Smoke corrected absorption coefficient: … (m–1)
49. CO2 emissions/fuel consumption/electric energy consumption (162) (1):
49.1. Cryptographic hash of the manufacturer's records file (119): .....
49.2. Zero emission heavy-duty vehicle: yes/no (4) (72) (169)
49.3. Vocational vehicle: (yes/no) (4) (72) (170)
49.4. Cryptographic hash of the customer information file: ..... (120) (170)...
49.5. Specific CO2 emissions: ... gCO2/tkm (171)
49.6. Average payload value: ..... t' (172)

Miscellaneous

52. Remarks (165): …

PART 2 VEHICLE CATEGORIES O1 AND O2

General construction characteristics

1. Number of axles: … and wheels (5): …
1.1. Number and position of axles with twin wheels: …

Main dimensions

4. Wheelbase (157) (174): … mm
4.1. Axle spacing:
5.1. Maximum permissible length: … mm
6.1. Maximum permissible width: … mm
7.1. Maximum permissible height: … mm
10. Distance between the centre of the coupling device and the...
12.1. Maximum permissible rear overhang: … mm

Masses (158)

14. Mass in running order of the incomplete vehicle: … kg...
14.1. Distribution of this mass amongst the axles:
15. Minimum mass of the vehicle when completed: … kg
15.1. Distribution of this mass amongst the axles:
16. Technically permissible maximum masses

16.1. Technically permissible maximum laden mass: … kg
16.2. Technically permissible mass on each axle:
16.3. Technically permissible mass on each axle group:
17. Intended registration/in service maximum permissible masses in national/international traffic (4)...
17.1. Intended registration/in service maximum permissible laden mass: … kg
17.2. Intended registration/in service maximum permissible laden mass on each axle:...
17.3. Intended registration/in service maximum permissible laden mass on each axle...
19.1. Technically permissible maximum static mass on the coupling point of...

Maximum speed

29. Maximum speed: … km/h

Axles and suspension

30.1. Track of each steered axle: … mm
30.2. Track of all other axles: … mm
31. Position of lift axle(s): …
32. Position of loadable axle(s): …
34. Axle(s) fitted with air suspension or equivalent: yes/no (4)
35. Tyre/wheel combination (160): …

Coupling device

44. Number of the approval certificate or approval mark of coupling...
45. Types or classes of coupling devices which can be fitted:...
45.1. Characteristics values (4): D: …/V: …/S: …/U: …

Miscellaneous

52. Remarks (165): …

PART 2 VEHICLE CATEGORIES O3 AND O4

General construction characteristics

1. Number of axles: … and wheels (5): …
1.1. Number and position of axles with twin wheels: …
2. Steered axle (number, position): …

Main dimensions

4. Wheelbase (157) (174): … mm
4.1. Axle spacing:
5.1. Maximum permissible length: …mm
5.3. Vehicle equipped with aerodynamic device or equipment on the rear/not...
6.1. Maximum permissible width: …mm
7.1. Maximum permissible height: …mm
10. Distance between the centre of the coupling device and the...
12.1. Maximum permissible rear overhang: …mm

Masses (158)

14. Mass in running order of the incomplete vehicle: … kg...
14.1. Distribution of this mass amongst the axles:
15. Minimum mass of the vehicle when completed: … kg
15.1. Distribution of this mass amongst the axles:
16. Technically permissible maximum masses

16.1. Technically permissible maximum laden mass: … kg
16.2. Technically permissible mass on each axle:
16.3. Technically permissible mass on each axle group:
17. Intended registration/in service maximum permissible masses in national/international traffic (4)...
17.1. Intended registration/in service maximum permissible laden mass: … kg
17.2. Intended registration/in service maximum permissible laden mass on each axle:...
17.3. Intended registration/in service maximum permissible laden mass on each axle...
19.1. Technically permissible maximum static mass on the coupling point of...

Maximum speed

29. Maximum speed: … km/h

Axles and suspension

31. Position of lift axle(s): …
32. Position of loadable axle(s): …
34. Axle(s) fitted with air suspension or equivalent: yes/no (4)
35. Tyre/wheel combination (160): …

Coupling device

44. Number of the approval certificate or approval mark of coupling...
45. Types or classes of coupling devices which can be fitted:...
45.1. Characteristics values (4): D: …/V: …/S: …/U: …

Miscellaneous

52. Remarks (165): …

(**1**) OJ L 151, 14.6.2018, p. 1.

Changes to legislation:
There are outstanding changes not yet made to Commission Implementing Regulation (EU) 2020/683. Any changes that have already been made to the legislation appear in the content and are referenced with annotations.
View outstanding changes

Changes and effects yet to be applied to :

– Annex 5 point 4(b) words substituted by S.I. 2024/146 reg. 3