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Fuel Consumption Limits for Passenger Cars

乘用车燃料消耗量限值

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## Foreword

This document was drafted in accordance with the provisions given in GB/T 1.1-2020 Directives for Standardization - Part 1: Rules for the Structure and Drafting of Standardizing Documents.

This document replaces GB 19578-2021 Fuel Consumption Limits for Passenger Cars. Compared with GB 19578-2021, this document has the following main technical changes, in addition to structural adjustment and editorial changes:

- a) The requirement that the fuel consumption type certification value of the vehicle model should not exceed the limit value were added (see 7.1 herein);
- b) The fuel consumption limits of different vehicle types were changed (see 7.2 and 7.3 herein, and 7.1 and 7.2 in Version 2021);
- c) The requirements for conformity of production were changed (see Chapter 8 herein, and Chapter 8 in Version 2021);
- d) The requirements for change and approval extension were deleted (see Chapter 9 in Version 2021);
- e) The criteria for determining the same type were added (see Chapter 9 herein);
- f) The type approval report/application report on fuel consumption of non-off-vehicle-chargeable hybrid electric vehicles was added (see Annex C herein)
- g) The type approval report/application report on energy consumption of off-vehicle-chargeable hybrid electric vehicles was added (see Annex D herein).

Please note that some content in this document may involve patents. The publishing institution of this document does not assume responsibility for identifying patents.

This document was proposed by and is under the centralized management of the Ministry of Industry and Information Technology of the People's Republic of China.

The previous editions replaced by this document are as follows:

- The first edition was published in 2004 as GB 19578-2004, the first revision was published in 2014 and the second revision in 2021;
- This is the third revision.



# Fuel Consumption Limits for Passenger Cars

## 1 Scope

This document specifies the fuel consumption limits, application for type approval, determination of fuel consumption, determination and recording of type approval values, conformity of production and determination of the same type with respect to passenger cars.

This document is applicable to  $M_1$  vehicles that can be fueled with gasoline or diesel and have a maximum design gross mass not exceeding 3500 kg. This document is not applicable to vehicles that are only fueled with gaseous fuel or alcohol ether fuel.

## 2 Normative References

The following normative documents contain provisions which, through reference in this text, constitute indispensable provisions of this document. For dated references, only the dated edition applies to this document. For undated references, the latest edition (including all amendments) applies to this document.

GB/T 19233—2020 Measurement Methods of Fuel Consumption for Light-duty Vehicles

GB/T 19596 Terminology of Electric Vehicles

GB/T 19753—2021 Test Methods for Energy Consumption of Light-duty Hybrid Electric Vehicles

GB/T 37340 Conversion Methods for Energy Consumption of Electric Vehicles

## 3 Terms and Definitions

For the purposes of this document, the terms and definitions given in GB/T 19596 apply.

## 4 Constitution of test cycle

4.1 The application for type approval regarding the fuel consumption of a particular vehicle type or family that meets the requirements of 10.2.1 in GB/T 19233-2020 and 8.1 in GB/T 19753-2021 shall be submitted by the manufacturer or its legal representative.

4.2 The application shall be attached with the related information and details (if there is a schematic diagram, the details shall be fully stated in an appropriate proportion):

- a) description of engine system characteristics specified in Annex A;
- b) applicable application report on type approval regarding fuel consumption specified in Annexes B to D, with items specified in the test values, type approval values, limit values, and inspection agency information left blank.

4.3 A sample vehicle representative of the vehicle type or family to be approved shall be submitted to the testing organization responsible for the type approval tests.

## 5 Determination of Fuel Consumption

The fuel consumption of gasoline, diesel, bi-fuel and dual-fuel vehicles shall be determined according to GB/T 19233-2020 using the worldwide harmonized light vehicles test cycle (WLTC). The fuel consumption of off-vehicle-chargeable hybrid electric vehicles (OVC-HEVs) and non-off-vehicle-chargeable hybrid electric vehicles (NOVC-HEVs) shall be determined according to GB/T 19753-2021 using the WLTC.

## 6 Determination and Recording of Type Approval Values

The testing agency responsible for type approval testing shall determine and record the vehicle type certification values in accordance with the following requirements.

- a) Determine the type certification values (comprehensive fuel consumption) for gasoline, diesel, bi-fuel, and dual fuel vehicles according to GB/T 19233-2020, compare the results with the corresponding limit values in equations (1) and (2), and record the comparison results in the fuel consumption type approval report specified in Annex B.
- b) Determine the type certification values (comprehensive fuel consumption) of NOVC-HEVs according to GB/T 19753-2021, compare the result with the corresponding limit values in equations (1) and (2), and record the comparison result in the fuel consumption type approval report specified in Annex C.
- c) Determine the OVC-HEV fuel consumption and OVC-HEV electrical energy consumption type certification values according to GB/T 19753-2021, and calculate the OVC-HEV converted fuel consumption according to G.3 in GB/T 19753-2021 (converted using the simple conversion method in GB/T 37340). Compare the OVC-HEV converted fuel consumption with the corresponding limit values in equations (1) and (2), and record the comparison results in the energy consumption type approval report specified in Annex D.

## 7 Fuel Consumption Limits

7.1 The type approval value regarding fuel consumption and OVC-HEV converted fuel consumption of a vehicle type shall not be higher than the limits specified in 7.2~7.3.

7.2 The fuel consumption limits for vehicles equipped with manual transmission and less than three rows of seats<sup>1</sup> shall be calculated by Formulae (1), with results rounded to two decimal places.

$$FC_L = \begin{cases} 5.90, (CM \leq 1090) \\ 0.0034 \times (CM - 1580) + 7.57, (1090 < CM \leq 2510) \\ 10.73, (CM > 2510) \end{cases} \dots\dots\dots (1)$$

Where,

$FC_L$  - fuel consumption limit of a vehicle type, in liters per 100 kilometers (L/100 km).

$CM$  - vehicle curb mass, in kilograms (kg).

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<sup>1</sup> A "seat" exists as long as a seat mounting point is available.



7.3 The fuel consumption limits of other vehicles shall be calculated by Formulae (2), with results rounded to two decimal places.

$$FC_L = \begin{cases} 6.31, (CM \leq 1090) \\ 0.0035 \times (CM - 1580) + 8.02, (1090 < CM \leq 2510) \\ 11.28, (CM > 2510) \end{cases} \dots\dots\dots(2)$$

Where,

$FC_L$  - fuel consumption limit of a vehicle type, in liters per 100 kilometers (L/100 km).

$CM$  - vehicle curb mass, in kilograms (kg).

7.4 The reference CO<sub>2</sub> emission value corresponding to the limit shall be calculated by Formula (3), with the result rounded to two decimal places:

$$R_{CO_2} = K_{CO_2} \times FC_L / 100 \dots\dots\dots(3)$$

Where,

$R_{CO_2}$  - reference CO<sub>2</sub> emission value corresponding to the fuel consumption limit of a vehicle type, in grams per kilometer (g/km);

$K_{CO_2}$  - conversion coefficient,  $2.37 \times 10^3$  for gasoline-fueled vehicles and  $2.60 \times 10^3$  for diesel-fueled vehicles, in grams per liter

(g/L);

$FC_L$  - fuel consumption limit of a vehicle type, in liters per 100 kilometers (L/100 km).

## 8 Conformity of Production

The fuel consumption of gasoline, diesel, bi-fuel and dual-fuel vehicles shall meet the requirements of GB/T 19233-2020 on conformity of production (CoP). The fuel consumption of NOVC-HEVs shall meet the requirements of GB/T 19753-2021 on CoP. The fuel consumption and energy consumption of OVC-HEVs shall meet the requirements of GB/T 19753-2021 on CoP.

## 9 Determination of the Same Type

9.1 The fuel consumption may be determined by the same type when the vehicle meets the following characteristics:

a) same basic characteristics, parameters and components of the engine;

Note: The basic characteristics and parameters of the engine are in accordance with the relevant requirements specified in 6.1.1 of GB 18352.6-2016.

b) same exhaust pollution control device;

Note: The exhaust pollution control device are in accordance with the relevant requirements specified in 6.1.1 of GB 18352.6-2016.

c) same shape of the front part of the vehicle body, and same or reduced windward area;

d) same or reduced number of seats (rows), and fuel consumption of the basic model meeting the corresponding limit requirements of the vehicle considered to be of the same type;

e) same drive type;

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- f) same transmission type;
- g) same drive ratio of each gear or change in drive ratio of each gear not more than 8%;
- h) change in overall gear ratio caused by different rolling circumferences of optional tires not more than 8%;
- i) same or reduced curb mass, and fuel consumption of the basic vehicle type meeting the corresponding limit requirements of the vehicle considered to be of the same type;
- j) same minimum fuel grade of the vehicle;

9.2 For hybrid electric vehicles, in addition to the requirements specified in 9.1, the following conditions shall also be met:

- a) same category of hybrid electric vehicles (series connection, parallel connection or series-parallel combination; whether there is an off-vehicle charging mode; and whether there is a manual selection function of driving mode);
- b) same model and manufacturer of cells of energy storage device;
- c) same total nominal voltage and capacity of the energy storage device assembly;
- d) same model, location, quantity and manufacturer of the drive motors/generators;
- e) same software version number, hardware model and manufacturer of the control system (vehicle control unit, on-board energy management system, drive motor controller, etc.), software version number changes are allowed without affecting the fuel and energy consumption of the vehicle model;
- f) same cooling type (water cooling, oil cooling, air cooling, etc).

## 10 Implementation of standards

For new vehicles under type approval, the standard shall be executed from the implemented date of this document; for vehicles with type approval, the standard shall be executed from the 25th month since the implemented date of this document.

## Annex A (Normative)

### Description of Engine System Characteristics

#### A.1 Manufacturer

Manufacturer: \_\_\_\_\_

Engine model of manufacturer: \_\_\_\_\_

#### A.2 Engine

##### A.2.1 Information on engine characteristics

A.2.1.1 Working principle: spark ignition type/compression ignition type/four-stroke/two-stroke <sup>2</sup>

A.2.1.2 Cylinder number, arrangement and ignition sequence: \_\_\_\_\_

A.2.1.3 Cylinder diameter <sup>3</sup>: \_\_\_\_\_ mm

A.2.1.4 Stroke<sup>3</sup>: \_\_\_\_\_ mm

A.2.1.5 Engine displacement <sup>4</sup>: \_\_\_\_\_ L

A.2.1.6 Volume compression ratio <sup>5</sup>: \_\_\_\_\_

A.2.1.7 Drawing of combustion chamber and piston top: \_\_\_\_\_

A.2.1.8 Idle speed <sup>5</sup>: \_\_\_\_\_ r/min

A.2.1.9 Volumetric content of carbon monoxide in exhaust during engine idling specified by the manufacturer <sup>5</sup> (for spark ignition type engine only): \_\_\_\_\_ %

A.2.1.10 Maximum net power: \_\_\_\_\_ kW at speed of \_\_\_\_\_ r/min

A.2.1.11 Rated power: \_\_\_\_\_ kW at a speed of \_\_\_\_\_ r/min

##### A.2.2 Fuel

Fuel recommended by the manufacturer: \_\_\_\_\_

##### A.2.3 Fuel supply

A.2.3.1 Fuel injection type (for compression ignition type only): Yes/No <sup>2</sup>

A.2.3.1.1 System description: \_\_\_\_\_

A.2.3.1.2 Working principle: direct injection type/pre-combustion chamber type/vortex combustion chamber type <sup>2</sup>

##### A.2.3.1.3 Fuel injection pump

A.2.3.1.3.1 Brand: \_\_\_\_\_

A.2.3.1.3.2 Model: \_\_\_\_\_

A.2.3.1.3.3 Maximum fuel supply: <sup>2, 5</sup> \_\_\_\_\_ mm<sup>3</sup>/stroke, or \_\_\_\_\_ mm<sup>3</sup>/cycle at a pump speed \_\_\_\_\_

<sup>2</sup> Delete those not applicable.

<sup>3</sup> Rounded to one decimal place, in millimeters (mm).

<sup>4</sup> Calculated with  $\Pi = 3.1416$  and rounded to three decimal places, in liters (L).

<sup>5</sup> Specify its tolerance.

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of \_\_\_\_\_ r/min, or expressed by fuel supply/characteristic curve: \_\_\_\_\_

A.2.3.1.3.4 Injection timing <sup>5</sup>: \_\_\_\_\_

A.2.3.1.3.5 Fuel injection advance curve <sup>5</sup>: \_\_\_\_\_

A.2.3.1.3.6 Calibration procedure: test bench/engine <sup>2</sup>

A.2.3.1.4 Governor

A.2.3.1.4.1 Model: \_\_\_\_\_

A.2.3.1.4.2 Fuel cut-off point

a) On-load fuel cut-off point: \_\_\_\_\_ r/min

d) No-load fuel cut-off point: \_\_\_\_\_ r/min

A.2.3.1.5 Fuel injector

A.2.3.1.5.1 Brand: \_\_\_\_\_

A.2.3.1.5.2 Model: \_\_\_\_\_

A.2.3.1.5.3 Opening pressure <sup>5</sup>: \_\_\_\_\_ kPa or characteristic curve <sup>5</sup>: \_\_\_\_\_

A.2.3.1.6 Cold start system

A.2.3.1.6.1 Brand: \_\_\_\_\_

A.2.3.1.6.2 Model: \_\_\_\_\_

A.2.3.1.6.3 Description: \_\_\_\_\_

A.2.3.1.7 Auxiliary starter

A.2.3.1.7.1 Brand: \_\_\_\_\_

A.2.3.1.7.2 Model: \_\_\_\_\_

A.2.3.1.7.3 Description: \_\_\_\_\_

A.2.3.2 Fuel injection type (for spark ignition type only): Yes/No <sup>2</sup>

A.2.3.2.1 System description: \_\_\_\_\_

A.2.3.2.2 Working principle: air intake branch (single-point/multi-point <sup>2</sup>)/direct injection type/other (detailed description) <sup>2</sup>

a) Type (or model) of control unit: \_\_\_\_\_

b) Type of fuel regulator: \_\_\_\_\_

c) Type of air flow sensor: \_\_\_\_\_

d) Type of fuel distributor: \_\_\_\_\_

e) Type of pressure regulator: \_\_\_\_\_

f) Type of micro-switch: \_\_\_\_\_

g) Type of idle speed adjusting screw: \_\_\_\_\_

h) Type of throttle valve body: \_\_\_\_\_

i) Type of water temperature sensor: \_\_\_\_\_

j) Type of air temperature sensor: \_\_\_\_\_

k) Type of air temperature switch: \_\_\_\_\_

l) Description or drawing of electromagnetic interference protection: \_\_\_\_\_

In the case of discontinuous injection, corresponding details shall be provided

A.2.3.2.3 Brand: \_\_\_\_\_

A.2.3.2.4 Model: \_\_\_\_\_

A.2.3.2.5 Fuel injector: opening pressure <sup>5</sup> \_\_\_\_\_ kPa or characteristic curve <sup>5</sup>: \_\_\_\_\_

A.2.3.2.6 Injection timing: \_\_\_\_\_

A.2.3.2.7 Cold start system

A.2.3.2.7.1 Working principle: \_\_\_\_\_

A.2.3.2.7.2 Operation limits/settings <sup>2,3</sup>: \_\_\_\_\_

A.2.3.3 Fuel supply pump

A.2.3.3.1 Pressure <sup>5</sup>: \_\_\_\_\_ kPa or characteristic curve: \_\_\_\_\_

A.2.4 Ignition device

A.2.4.1 Brand: \_\_\_\_\_

A.2.4.2 Model: \_\_\_\_\_

A.2.4.3 Working principle: \_\_\_\_\_

A.2.4.4 Ignition advance curve <sup>5</sup>: \_\_\_\_\_

A.2.4.5 Static ignition timing <sup>5</sup>: \_\_\_\_\_ (°) before TDC

A.2.4.6 Contact Gap<sup>3</sup>: \_\_\_\_\_ mm

A.2.4.7 Dwell angle<sup>3</sup>: \_\_\_\_\_ °

A.2.4.8 Spark plug

A.2.4.8.1 Brand: \_\_\_\_\_

A.2.4.8.2 Model: \_\_\_\_\_

A.2.4.8.3 Spark plug setting gap: \_\_\_\_\_ mm

A.2.4.9 Ignition coil

A.2.4.9.1 Brand: \_\_\_\_\_

A.2.4.9.2 Model: \_\_\_\_\_

A.2.4.10 Ignition capacitor

A.2.4.10.1 Brand: \_\_\_\_\_

A.2.4.10.2 Model: \_\_\_\_\_

A.2.5 Cooling system

liquid cooling/air cooling <sup>2</sup>

A.2.6 Intake system

A.2.6.1 Supercharger: Yes/No <sup>2</sup>

A.2.6.1.1 Brand: \_\_\_\_\_

A.2.6.1.2 Model: \_\_\_\_\_

A.2.6.1.3 System description (maximum charging pressure: \_\_\_\_\_ kPa, discharging method (if any): \_\_\_\_\_)

A.2.6.2 Intercooler: Yes/No <sup>2</sup>

A.2.6.2.1 Type: Air-Air/Air-Water<sup>2</sup>

A.2.6.2.2 Outlet temperature: \_\_\_\_\_

A.2.6.3 Description and drawing of air intake pipe and its accessories (pressurized chamber,

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heating device, additional air intake, etc.): \_\_\_\_\_

A.2.6.3.1 Description of air intake branch (including drawings and/or photos): \_\_\_\_\_

A.2.6.3.2 Air filter, drawing: \_\_\_\_\_, or

A.2.6.3.2.1 Brand: \_\_\_\_\_

A.2.6.3.2.2 Model: \_\_\_\_\_

A.2.6.3.3 Intake silencer, drawing: \_\_\_\_\_, or

A.2.6.3.3.1 Brand: \_\_\_\_\_

A.2.6.3.3.2 Model: \_\_\_\_\_

## A.2.7 Exhaust system

Description and/or drawing of exhaust system: \_\_\_\_\_

## A.2.8 Valve timing or equivalent data

A.2.8.1 Maximum valve lift, opening and closing angles, or timing details of the alternative valve system relative to the dead center: \_\_\_\_\_

A.2.8.2 Reference and/or setting range <sup>2</sup>: \_\_\_\_\_

## A.2.9 Lubricant

A.2.9.1 Brand: \_\_\_\_\_

A.2.9.2 Model: \_\_\_\_\_

## A.2.10 Pollution control device

A.2.10.1 Crankcase gas recirculation device (description and/or drawing): \_\_\_\_\_

A.2.10.2 Additional pollution control devices (if any, but not included in other items): \_\_\_\_\_

A.2.10.2.1 Catalytic converter: Yes/No <sup>2</sup>

A.2.10.2.1.1 Number of catalytic converters and their catalytic units: \_\_\_\_\_

A.2.10.2.1.2 Size and shape of catalytic converter: \_\_\_\_\_

A.2.10.2.1.3 Function type of catalytic converter: \_\_\_\_\_

A.2.10.2.1.4 Name of coating production enterprise: \_\_\_\_\_

A.2.10.2.1.5 Total precious metal content: \_\_\_\_\_

A.2.10.2.1.6 Proportion of precious metals in coatings: \_\_\_\_\_

A.2.10.2.1.7 Name of carrier manufacturing enterprise: \_\_\_\_\_

A.2.10.2.1.8 Carrier material: \_\_\_\_\_

A.2.10.2.1.9 Carrier pore density: \_\_\_\_\_

A.2.10.2.1.10 Carrier volume: \_\_\_\_\_

A.2.10.2.1.11 Quality after carrier coating: \_\_\_\_\_

A.2.10.2.1.12 Type of catalytic converter housing: \_\_\_\_\_

A.2.10.2.1.13 Position of catalytic converter (position and reference distance in exhaust pipeline): \_\_\_\_\_

A.2.10.2.1.14 Model of oxygen sensor: \_\_\_\_\_

a) Position of oxygen sensor: \_\_\_\_\_

b) Oxygen sensor control range: \_\_\_\_\_

A.2.10.2.2 Air injection: Yes/No <sup>2</sup>

Type (pulse air, air pump, etc.): \_\_\_\_\_

A.2.10.2.3 Exhaust gas recirculation: Yes/No <sup>2</sup>

Characteristics (flow, etc.): \_\_\_\_\_

A.2.10.2.4 Evaporative emission control system

A.2.10.2.4.1 Full details of devices and their adjustment status: \_\_\_\_\_

A.2.10.2.4.2 Drawing of evaporation control system: \_\_\_\_\_

A.2.10.2.4.3 Drawing of carbon canister: \_\_\_\_\_

A.2.10.2.4.4 Drawing of fuel tank and description of its capacity and material: \_\_\_\_\_

A.2.10.2.5 Particulate filter: Yes/No <sup>2</sup>

A.2.10.2.5.1 Number of particulate filter and their units: \_\_\_\_\_

A.2.10.2.5.2 Size and shape of particulate filter: \_\_\_\_\_

A.2.10.2.5.3 System type (e.g. wall flow/straight through): \_\_\_\_\_

A.2.10.2.5.4 Name of coating production enterprise: \_\_\_\_\_

A.2.10.2.5.5 Total precious metal content: \_\_\_\_\_

A.2.10.2.5.6 Proportion of precious metals in coatings: \_\_\_\_\_

A.2.10.2.5.7 Name of carrier manufacturing enterprise: \_\_\_\_\_

A.2.10.2.5.8 Carrier material: \_\_\_\_\_

A.2.10.2.5.9 Carrier pore density: \_\_\_\_\_

A.2.10.2.5.10 Carrier volume: \_\_\_\_\_

A.2.10.2.5.11 Quality after carrier coating: \_\_\_\_\_

A.2.10.2.5.12 Type of particle filter housing: \_\_\_\_\_

A.2.10.2.5.13 Position of particulate filter (reference distance in exhaust pipeline): \_\_\_\_\_

A.2.10.2.5.14 Regeneration system/method, description and drawing: \_\_\_\_\_

A.2.10.2.6 Other systems (description and working principle): \_\_\_\_\_

Annex B  
(Normative)

Type Approval Report/Application Report on Fuel Consumption of Fuel Vehicles

B.1 Basic information on vehicle and manufacturer

B.1.1 Name or brand of vehicle: \_\_\_\_\_

B.1.2 Vehicle type: \_\_\_\_\_

B.1.3 Vehicle category: M<sub>1</sub>

B.1.4 Name and address of manufacturer: \_\_\_\_\_

B.1.5 Name and address of the manufacturer's legal representative (if applicable): \_\_\_\_\_

B.2 Vehicle description

B.2.1 Vehicle parameters

B.2.1.1 Vehicle curb mass: \_\_\_\_\_ kg

B.2.1.2 Maximum mass: \_\_\_\_\_ kg

B.2.1.3 Rated seating capacity: \_\_\_\_\_ (persons)

B.2.1.4 Vehicle body type: \_\_\_\_\_

B.2.1.5 Driving type, such as: front/rear/4×4

B.2.2 Engine

B.2.2.1 Engine type: \_\_\_\_\_

B.2.2.2 Engine model: \_\_\_\_\_

B.2.2.3 Engine displacement: \_\_\_\_\_ L

B.2.2.4 Type of fuel injection system: high-pressure common rail/mechanical pump/VE pump/single pump/pump nozzle/others <sup>2</sup>

B.2.2.5 Fuel recommended by the manufacturer: \_\_\_\_\_

B.2.2.6 Maximum net power: \_\_\_\_\_ kW at speed of \_\_\_\_\_ r/min

B.2.2.7 Rated power: \_\_\_\_\_ kW at a speed of \_\_\_\_\_ r/min

B.2.2.8 Supercharger: Yes/No <sup>2</sup>

B.2.2.9 Ignition system: compression ignition/conventional ignition or electronic ignition <sup>2</sup>

B.2.3 Transmission

B.2.3.1 Transmission type: MT/non-MT <sup>2</sup>

B.2.3.2 Number of gears: \_\_\_\_\_

B.2.3.3 Overall gear ratio (including rolling circumference of tire under load): [road speed (km/h)/(1000 r/min)]:

a) 1<sup>st</sup> gear: \_\_\_\_\_

b) 2<sup>nd</sup> gear: \_\_\_\_\_

c) 3<sup>rd</sup> gear: \_\_\_\_\_

d) 4<sup>th</sup> gear: \_\_\_\_\_

e) 5<sup>th</sup> gear: \_\_\_\_\_



f) 6<sup>th</sup> gear: \_\_\_\_\_

g) Others: \_\_\_\_\_

B.2.3.4 Speed ratio of main drive: \_\_\_\_\_

B.2.3.5 Gear shift indicator:

a) Equipped: Yes/No<sup>2</sup>

b) Indication mode: visual/audible/others<sup>2</sup>

c) Position: \_\_\_\_\_

d) Whether the gear is shifted according to the indication of gear shift indicator during the test:  
Yes/No<sup>2</sup>

B.2.4 Tires

Model: \_\_\_\_\_ Size: \_\_\_\_\_ Inflation pressure: \_\_\_\_\_ kPa

Rolling circumference under load: \_\_\_\_\_

B.2.5 Lubricant

B.2.5.1 Brand: \_\_\_\_\_

B.2.5.2 Model: \_\_\_\_\_

B.2.6 Driving mode

B.2.6.1 Main mode: yes/no<sup>2</sup>

B.2.6.2 All driving modes of the vehicle: \_\_\_\_\_

B.2.6.3 Driving mode selected for type-approval testing: \_\_\_\_\_

B.2.6.4 All energy recovery modes of vehicle: \_\_\_\_\_

B.2.6.5 Energy recovery mode selected for type-approval testing: \_\_\_\_\_

B.3 Structural features

B.3.1.1 Non-MT: Yes/No<sup>2</sup>.

B.3.1.2 Three or more rows of seats: Yes/No<sup>2</sup>.

B.4 Running resistance

B.4.1 Determination method of running resistance: coast-down method/torque meter method/calculation method/wind tunnel method/others<sup>2</sup>

B.4.2 Copies of test reports, calculation reports or other relevant materials

B.5 Test cycle

Cycle conditions: WLTC/CLTC-C<sup>2</sup>

B.6 Declared fuel consumption and CO<sub>2</sub> emission

B.6.1 CO<sub>2</sub> emission (comprehensive): \_\_\_\_\_ g/km

B.6.2 Fuel consumption (comprehensive): \_\_\_\_\_ L/100 km

## B.7 Tested fuel consumption and CO<sub>2</sub> emission

### B.7.1 CO<sub>2</sub> emissions

B.7.1.1 CO<sub>2</sub> emission (low-speed section): \_\_\_\_\_ g/km

B.7.1.2 CO<sub>2</sub> emission (medium-speed range): \_\_\_\_\_ g/km

B.7.1.3 CO<sub>2</sub> emission (high-speed section): \_\_\_\_\_ g/km

B.7.1.4 CO<sub>2</sub> emission (ultra-high speed): \_\_\_\_\_ g/km

B.7.1.5 CO<sub>2</sub> emission (comprehensive): \_\_\_\_\_ g/km

### B.7.2 Fuel consumption

B.7.2.1 Fuel consumption (low-speed section): \_\_\_\_\_ L/100 km

B.7.2.2 Fuel consumption (medium-speed section): \_\_\_\_\_ L/100 km

B.7.2.3 Fuel consumption (high-speed section): \_\_\_\_\_ L/100 km

B.7.2.4 Fuel consumption (ultra-high-speed section): \_\_\_\_\_ L/100 km

B.7.2.5 Fuel consumption (comprehensive): \_\_\_\_\_ L/100 km

## B.8 Certified fuel consumption and CO<sub>2</sub> emission in type approval

### B.8.1 CO<sub>2</sub> emissions

B.8.1.1 CO<sub>2</sub> emission (low-speed section): \_\_\_\_\_ g/km

B.8.1.2 CO<sub>2</sub> emission (medium-speed range): \_\_\_\_\_ g/km

B.8.1.3 CO<sub>2</sub> emission (high-speed section): \_\_\_\_\_ g/km

B.8.1.4 CO<sub>2</sub> emission (ultra-high speed): \_\_\_\_\_ g/km

B.8.1.5 CO<sub>2</sub> emission (comprehensive): \_\_\_\_\_ g/km

### B.8.2 Fuel consumption

B.8.2.1 Fuel consumption (low-speed section): \_\_\_\_\_ L/100 km

B.8.2.2 Fuel consumption (medium-speed section): \_\_\_\_\_ L/100 km

B.8.2.3 Fuel consumption (high-speed section): \_\_\_\_\_ L/100 km

B.8.2.4 Fuel consumption (ultra-high-speed section): \_\_\_\_\_ L/100 km

B.8.2.5 Fuel consumption (comprehensive): \_\_\_\_\_ L/100 km

### B.8.3 Limit

B.8.3.1 Limit for this vehicle type: \_\_\_\_\_ L/100km

B.8.3.2 Certified value of this vehicle type in type approval: ≤ or > the limit <sup>2</sup>

## B.9 Information on testing organization

B.9.1 Date of vehicle delivery for approval: \_\_\_\_\_

B.9.2 Testing organization responsible for the test: \_\_\_\_\_

B.9.3 Test report No.: \_\_\_\_\_

B.9.4 Location: \_\_\_\_\_

B.9.5 Date: \_\_\_\_\_

B.9.6 Signature: \_\_\_\_\_

Annex C  
(Normative)

Type Approval Report/Application Report on Fuel Consumption of Non-off-vehicle-chargeable Hybrid  
Electric Vehicles <sup>2</sup>

C.1 Basic information on vehicle and manufacturer

C.1.1 Name or brand of vehicle: \_\_\_\_\_

C.1.2 Vehicle type: \_\_\_\_\_

C.1.3 Vehicle category: M<sub>1</sub>

C.1.4 Name and address of manufacturer: \_\_\_\_\_

C.1.5 Name and address of the manufacturer's legal representative (if applicable): \_\_\_\_\_

C.2 Vehicle description

C.2.1 Vehicle parameters

C.2.1.1 Vehicle curb mass: \_\_\_\_\_ kg

C.2.1.2 Maximum mass: \_\_\_\_\_ kg

C.2.1.3 Rated passenger capacity: \_\_\_\_\_ (persons)

C.2.1.4 Vehicle body type: \_\_\_\_\_

C.2.1.5 Driving type, such as: front/rear/4×4

C.2.2 Engine

C.2.2.1 Engine type: \_\_\_\_\_

C.2.2.2 Engine model: \_\_\_\_\_

C.2.2.3 Engine displacement: \_\_\_\_\_ L

C.2.2.4 Type of fuel injection system: \_\_\_\_\_

C.2.2.5 Fuel recommended by the manufacturer: \_\_\_\_\_

C.2.2.6 Maximum net power: \_\_\_\_\_ kW at speed of \_\_\_\_\_ r/min

C.2.2.7 Rated power: \_\_\_\_\_ kW at a speed of \_\_\_\_\_ r/min

C.2.2.8 Supercharger: Yes/No <sup>2</sup>

C.2.2.9 Ignition system: compression ignition/conventional ignition or electronic ignition <sup>2</sup>

C.2.3 Powertrain and components of hybrid electric vehicle

C.2.3.1 Manual selection function of driving mode: Yes/No <sup>2</sup>

C.2.3.2 Type of energy storage device: \_\_\_\_\_

C.2.3.3 Model of energy storage device after packing: \_\_\_\_\_

C.2.3.4 Category of energy storage device: \_\_\_\_\_

C.2.3.5 Nominal voltage of energy storage device assembly: \_\_\_\_\_ V

C.2.3.6 Nominal capacity of energy storage device assembly: \_\_\_\_\_ Ah

C.2.3.7 Combination mode of energy storage device: \_\_\_\_\_

C.2.3.8 Number of cells of energy storage device: \_\_\_\_\_

C.2.3.9 Model of cell of energy storage device: \_\_\_\_\_

C.2.3.10 Nominal voltage of cell of energy storage device: \_\_\_\_\_ V, capacitance: \_\_\_\_\_ Ah

C.2.3.11 Type of drive motor: \_\_\_\_\_

C.2.3.12 Model of drive moto: \_\_\_\_\_

C.2.3.13 Peak power of drive motor: \_\_\_\_\_ kW, speed: \_\_\_\_\_ r/min, torque: \_\_\_\_\_ N.m

C.2.3.14 Rated power of drive motor: \_\_\_\_\_ kW, speed: \_\_\_\_\_ r/min, torque: \_\_\_\_\_ N.m

## C.2.4 Transmission

C.2.4.1 Transmission type: MT/non-MT <sup>2</sup>

C.2.4.2 Number of gears: \_\_\_\_\_

C.2.4.3 Overall gear ratio (including rolling circumference of tire under load): [road speed (km/h)/(1000 r/min)]:

a) 1st gear: \_\_\_\_\_

b) 2<sup>nd</sup> gear: \_\_\_\_\_

c) 3<sup>rd</sup> gear: \_\_\_\_\_

d) 4<sup>th</sup> gear: \_\_\_\_\_

e) 5<sup>th</sup> gear: \_\_\_\_\_

f) 6<sup>th</sup> gear: \_\_\_\_\_

g) Others: \_\_\_\_\_

C.2.4.4 Gear ratio of main drive: \_\_\_\_\_

C.2.4.5 Gear shift indicator:

a) Equipped: Yes/No <sup>2</sup>

b) Indication mode: visual/audible/others <sup>2</sup>

c) Position: \_\_\_\_\_

d) Whether the gear is shifted according to the indication of gear shift indicator during the test: Yes/No <sup>2</sup>

## C.2.5 Tires

Model: \_\_\_\_\_ Size: \_\_\_\_\_ Inflation pressure: \_\_\_\_\_ kPa

Rolling circumference under load: \_\_\_\_\_

## C.2.6 Lubricant

C.2.6.1 Brand: \_\_\_\_\_

C.2.6.2 Model: \_\_\_\_\_

## C.2.7 Driving mode

C.2.7.1 Main mode: yes/no <sup>2</sup>

C.2.7.2 All driving modes of the vehicle: \_\_\_\_\_

C.2.7.3 Driving mode selected for type-approval testing: \_\_\_\_\_

C.2.7.4 All energy recovery modes of vehicle: \_\_\_\_\_

C.2.7.5 Energy recovery mode selected for type-approval testing: \_\_\_\_\_

### C.3 Structural features

C.3.1.1 Non-MT: Yes/No <sup>2</sup>

C.3.1.2 Three or more rows of seats: Yes/No <sup>2</sup>

### C.4 Running resistance

C.4.1 Determination method of running resistance: coast-down method/torque meter method/calculation method/wind tunnel method/others <sup>2</sup>

C.4.2 Copies of test reports, calculation reports or other relevant materials

### C.5 Test cycle

Cycle conditions: WLTC/CLTC-C<sup>2</sup>

### C.6 Declared fuel consumption and CO<sub>2</sub> emission

C.6.1 CO<sub>2</sub> emission (comprehensive): \_\_\_\_\_ g/km

C.6.2 Fuel consumption (comprehensive): \_\_\_\_\_ L/100 km

### C.7 Tested fuel consumption and CO<sub>2</sub> emission

#### C.7.1 CO<sub>2</sub> emissions

C.7.1.1 CO<sub>2</sub> emission (low-speed section): \_\_\_\_\_ g/km

C.7.1.2 CO<sub>2</sub> emission (medium-speed range): \_\_\_\_\_ g/km

C.7.1.3 CO<sub>2</sub> emission (high-speed section): \_\_\_\_\_ g/km

C.7.1.4 CO<sub>2</sub> emission (ultra-high speed): \_\_\_\_\_ g/km

C.7.1.5 CO<sub>2</sub> emission (comprehensive): \_\_\_\_\_ g/km

#### C.7.2 Fuel consumption

C.7.2.1 Fuel consumption (low-speed section): \_\_\_\_\_ L/100 km

C.7.2.2 Fuel consumption (medium-speed section): \_\_\_\_\_ L/100 km

C.7.2.3 Fuel consumption (high-speed section): \_\_\_\_\_ L/100 km

C.7.2.4 Fuel consumption (ultra-high-speed section): \_\_\_\_\_ L/100 km

C.7.2.5 Fuel consumption (comprehensive): \_\_\_\_\_ L/100 km

### C.8 Certified fuel consumption and CO<sub>2</sub> emission in type approval

#### C.8.1 CO<sub>2</sub> emissions

C.8.1.1 CO<sub>2</sub> emission (low-speed section): \_\_\_\_\_ g/km

C.8.1.2 CO<sub>2</sub> emission (medium-speed range): \_\_\_\_\_ g/km

C.8.1.3 CO<sub>2</sub> emission (high-speed section): \_\_\_\_\_ g/km

C.8.1.4 CO<sub>2</sub> emission (ultra-high speed): \_\_\_\_\_ g/km

C.8.1.5 CO<sub>2</sub> emission (comprehensive): \_\_\_\_\_ g/km

## C.8.2 Fuel consumption

C.8.2.1 Fuel consumption (low-speed section): \_\_\_\_\_ L/100 km

C.8.2.2 Fuel consumption (medium-speed section): \_\_\_\_\_ L/100 km

C.8.2.3 Fuel consumption (high-speed section): \_\_\_\_\_ L/100 km

C.8.2.4 Fuel consumption (ultra-high-speed section): \_\_\_\_\_ L/100 km

C.8.2.5 Fuel consumption (comprehensive): \_\_\_\_\_ L/100 km

## C.8.3 Limit

C.8.3.1 Limit for this vehicle type: \_\_\_\_\_ L/100 km

C.8.3.2 Certified value of this vehicle type in type approval:  $\leq$  or  $>$  the limit <sup>2</sup>

## C.9 Information on testing organization

C.9.1 Approval application submitted on: \_\_\_\_\_

C.9.2 Testing organization responsible for the test: \_\_\_\_\_

C.9.3 Test report No.: \_\_\_\_\_

C.9.4 Location: \_\_\_\_\_

C.9.5 Date: \_\_\_\_\_

C.9.6 Signature: \_\_\_\_\_

Annex D  
(Normative)

Type Approval Report/Application Report on Energy Consumption of Off-vehicle-chargeable Hybrid  
Electric Vehicles <sup>2</sup>

D.1 Basic information on vehicle and manufacturer

D.1.1 Name or brand of vehicle: \_\_\_\_\_

D.1.2 Vehicle type: \_\_\_\_\_

D.1.3 Vehicle category: M<sub>1</sub>

D.1.4 Name and address of manufacturer: \_\_\_\_\_

D.1.5 Name and address of the manufacturer's legal representative (if applicable): \_\_\_\_\_

D.2 Vehicle description

D.2.1 Vehicle parameters

D.2.1.1 Vehicle curb mass: \_\_\_\_\_ kg

D.2.1.2 Maximum mass: \_\_\_\_\_ kg

D.2.1.3 Rated passenger capacity: \_\_\_\_\_ (persons)

D.2.1.4 Vehicle body type: \_\_\_\_\_

D.2.1.5 Driving type, such as: front/rear/4×4

D.2.2 Engine

D.2.2.1 Engine type: \_\_\_\_\_

D.2.2.2 Engine model: \_\_\_\_\_

D.2.2.3 Engine displacement: \_\_\_\_\_ L

D.2.2.4 Type of fuel injection system: high-pressure common rail/mechanical pump/VE pump/single pump/pump nozzle/others <sup>2</sup>

D.2.2.5 Fuel recommended by the manufacturer: \_\_\_\_\_

D.2.2.6 Maximum net power: \_\_\_\_\_ kW at speed of \_\_\_\_\_ r/min

D.2.2.7 Rated power: \_\_\_\_\_ kW at a speed of \_\_\_\_\_ r/min

D.2.2.8 Supercharger: Yes/No <sup>2</sup>

D.2.2.9 Ignition system: compression ignition/conventional ignition or electronic ignition <sup>2</sup>

D.2.3 Powertrain and components of hybrid electric vehicle

D.2.3.1 Manual selection function of driving mode: Yes/No <sup>2</sup>

D.2.3.2 Type of energy storage device of electric vehicle: \_\_\_\_\_

D.2.3.3 Model of energy storage device after packing: \_\_\_\_\_

D.2.3.4 Category of energy storage device of electric vehicle: \_\_\_\_\_

D.2.3.5 Nominal voltage of energy storage device assembly: \_\_\_\_\_ V

D.2.3.6 Nominal capacity of traction battery assembly: \_\_\_\_\_ Ah



D.2.3.7 Combination mode of energy storage device: \_\_\_\_\_

D.2.3.8 Number of cells of energy storage device: \_\_\_\_\_

D.2.3.9 Model of cell of energy storage device: \_\_\_\_\_

D.2.3.10 Nominal voltage of cell of energy storage device: \_\_\_\_\_V, capacitance: \_\_\_\_\_Ah

D.2.3.11 Type of drive motor of electric vehicle: \_\_\_\_\_

D.2.3.12 Model of drive motor of electric vehicle: \_\_\_\_\_

D.2.3.13 Peak power of drive motor of electric vehicle: \_\_\_\_kW, speed: \_\_\_\_\_r/min, torque: \_\_\_\_N.m

D.2.3.14 Rated power of drive motor of electric vehicle: \_\_\_\_kW, speed: \_\_\_\_\_r/min, torque: \_\_\_\_N.m

## D.2.4 Transmission

D.2.4.1 Transmission type: MT/non-MT <sup>2</sup>

D.2.4.2 Number of gears: \_\_\_\_\_

D.2.4.3 Overall gear ratio (including rolling circumference of tire under load): [road speed (km/h)/(1000 r/min)]:

- a) 1st gear: \_\_\_\_\_
- b) 2nd gear: \_\_\_\_\_
- c) 3rd gear: \_\_\_\_\_
- d) 4th gear: \_\_\_\_\_
- e) 5th gear: \_\_\_\_\_
- f) 6th gear: \_\_\_\_\_
- g) Others: \_\_\_\_\_

D.2.4.4 Gear ratio of main drive: \_\_\_\_\_

D.2.4.5 Gear shift indicator:

- a) Equipped: Yes/No <sup>2</sup>
- b) Indication mode: visual/audible/others <sup>2</sup>
- c) Position: \_\_\_\_\_
- d) Whether the gear is shifted according to the indication of gear shift indicator during the test: Yes/No <sup>2</sup>

## D.2.5 Tires

Model: \_\_\_\_\_ Size: \_\_\_\_\_ Inflation pressure: \_\_\_\_\_ kPa

Rolling circumference under load: \_\_\_\_\_

## D.2.6 Lubricant

D.2.6.1 Brand: \_\_\_\_\_

D.2.6.2 Model: \_\_\_\_\_

## D.2.7 Driving mode

D.2.7.1 Main mode: yes/no <sup>2</sup>

D.2.7.2 All driving modes in vehicle charge-sustaining and charge-depleting modes: \_\_\_\_\_

D.2.7.3 Driving mode selected for type-approval testing: \_\_\_\_\_

D.2.7.4 All energy recovery modes of vehicle: \_\_\_\_\_

D.2.7.5 Energy recovery mode selected for type-approval testing: \_\_\_\_\_

### D.3 Structural features

D.3.1.1 Non-MT: Yes/No <sup>2</sup>

D.3.1.2 Three or more rows of seats: Yes/No <sup>2</sup>

### D.4 Running resistance

D.4.1 Determination method of running resistance: coast-down method/torque meter method/calculation method/wind tunnel method/others <sup>2</sup>

D.4.2 Copies of test reports, calculation reports or other relevant materials

### D.5 Test cycle

Test cycle: WLTC/CLTC-P <sup>2</sup>

### D.6 Charge-sustaining mode

#### D.6.1 Declared fuel consumption and CO<sub>2</sub> emission

D.6.1.1 CO<sub>2</sub> emission (comprehensive): \_\_\_\_\_ g/km

D.6.1.2 Fuel consumption (comprehensive): \_\_\_\_\_ L/100 km

#### D.6.2 Tested fuel consumption and CO<sub>2</sub> emission

##### D.6.2.1 CO<sub>2</sub> emissions

C.6.2.1.1 CO<sub>2</sub> emission (low-speed section): \_\_\_\_\_ g/km

C.6.2.1.2 CO<sub>2</sub> emission (medium-speed range): \_\_\_\_\_ g/km

C.6.2.1.3 CO<sub>2</sub> emission (high-speed section): \_\_\_\_\_ g/km

C.6.2.1.4 CO<sub>2</sub> emission (ultra-high speed): \_\_\_\_\_ g/km

C.6.2.1.5 CO<sub>2</sub> emission (comprehensive): \_\_\_\_\_ g/km

##### D.6.2.2 Fuel consumption

C.6.2.2.1 Fuel consumption (low-speed section): \_\_\_\_\_ L/100 km

C.6.2.2.2 Fuel consumption (medium-speed section): \_\_\_\_\_ L/100 km

C.6.2.2.3 Fuel consumption (high-speed section): \_\_\_\_\_ L/100 km

C.6.2.2.4 Fuel consumption (ultra-high-speed section): \_\_\_\_\_ L/100 km

C.6.2.2.5 Fuel consumption (comprehensive): \_\_\_\_\_ L/100 km

#### D.6.3 Certified fuel consumption and CO<sub>2</sub> emission in type approval

##### D.6.3.1 CO<sub>2</sub> emissions

C.6.3.1.1 CO<sub>2</sub> emission (low-speed section): \_\_\_\_\_ g/km

C.6.3.1.2 CO<sub>2</sub> emission (medium-speed range): \_\_\_\_\_ g/km

C.6.3.1.3 CO<sub>2</sub> emission (high-speed section): \_\_\_\_\_ g/km

C.6.3.1.4 CO<sub>2</sub> emission (ultra-high speed): \_\_\_\_\_ g/km

C.6.3.1.5 CO<sub>2</sub> emission (comprehensive): \_\_\_\_\_ g/km

#### D.6.3.2 Fuel consumption

C.6.3.2.1 Fuel consumption (low-speed section): \_\_\_\_\_ L/100 km

C.6.3.2.2 Fuel consumption (medium-speed section): \_\_\_\_\_ L/100 km

C.6.3.2.3 Fuel consumption (high-speed section): \_\_\_\_\_ L/100 km

C.6.3.2.4 Fuel consumption (ultra-high-speed section): \_\_\_\_\_ L/100 km

C.6.3.2.5 Fuel consumption (comprehensive): \_\_\_\_\_ L/100 km

#### D.7 Charge-depleting mode

##### D.7.1 Declared energy consumption and CO<sub>2</sub> emission

D.7.1.1 CO<sub>2</sub> emission: \_\_\_\_\_ g/km

D.7.1.2 Fuel consumption: \_\_\_\_\_ L/100 km

D.7.1.3 Energy consumption: \_\_\_\_\_ Wh/km

##### D.7.2 Tested energy consumption and CO<sub>2</sub> emission

D.7.2.1 CO<sub>2</sub> emission: \_\_\_\_\_ g/km

D.7.2.2 Fuel consumption: \_\_\_\_\_ L/100 km

D.7.2.3 Energy consumption: \_\_\_\_\_ Wh/km

##### D.7.3 Certified energy consumption and CO<sub>2</sub> emission in type approval

D.7.3.1 CO<sub>2</sub> emission: \_\_\_\_\_ g/km

D.7.3.2 Fuel consumption: \_\_\_\_\_ L/100 km

D.7.3.3 Energy consumption: \_\_\_\_\_ Wh/km

#### D.8 Comprehensive results

##### D.8.1 Declared driving range

D.8.1.1 All-electric range: \_\_\_\_\_ km

D.8.1.2 Equivalent all-electric range: \_\_\_\_\_ km

##### D.8.2 Tested driving range and energy consumption

D.8.2.1 All-electric range: \_\_\_\_\_ km

D.8.2.2 Equivalent all-electric range: \_\_\_\_\_ km

D.8.2.3 Fuel consumption of OVC-HEV: \_\_\_\_\_ L/100 km

D.8.2.4 Power consumption of OVC-HEV: \_\_\_\_\_ L/100 km

##### D.8.3 Certified driving range and energy consumption in type approval

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D.8.3.1 All-electric range: \_\_\_\_\_ km

D.8.3.2 Equivalent all-electric range: \_\_\_\_\_ km

D.8.3.3 Fuel consumption of OVC-HEV: \_\_\_\_\_ L/100 km

D.8.3.4 Power consumption of OVC-HEV: \_\_\_\_\_ L/100 km

D.8.4 Converted fuel consumption

Converted fuel consumption of OVC-HEV: \_\_\_\_\_ L/100 km

D.8.5 Limits

D.8.4.2 Limit for this vehicle type: \_\_\_\_\_ L/100 km

D.8.4.3 Certified value of this vehicle type in type approval:  $\leq$  or  $>$  the limit <sup>2</sup>

D.9 Information on testing organization

D.9.1 Date of vehicle delivery for approval: \_\_\_\_\_

D.9.2 Testing organization responsible for the test: \_\_\_\_\_

D.9.3 Test report No.: \_\_\_\_\_

D.9.4 Location: \_\_\_\_\_

D.9.5 Date: \_\_\_\_\_

D.9.6 Signature: \_\_\_\_\_

\_\_\_\_\_