



## Guidance Notes

### **APPLICATION FOR MOTOR VEHICLE (ENGINE) EXHAUST AND NOISE EMISSIONS TYPE APPROVAL**

(For motor vehicle with at least 4 wheels and design weight more than 3.5 tonnes)

#### **1. Application Form**

The application form consists of two parts, PART I and PART II. PART I is the applicant's information and PART II is information of the vehicle (engine) model for which type approval is sought. Please note that both exhaust and noise emission type approvals are not required for "New Energy Vehicles" (i.e. battery electric vehicles and hydrogen fuel cell vehicles) which do not have internal combustion engines or exhaust emission systems. You should complete relevant items and provide all necessary information in supporting your application. TWO copies are required if you apply for both vehicle (engine) exhaust and noise emissions type approval.

#### **2. Authorized Signature**

The application form and the CDs or DVDs must have authorized signatures of the vehicle / engine manufacturer to certify that the information of the vehicle / engine model under application is correct and complete.

#### **3. Checklist**

The information in the checklist is essential for your application. You may provide supplementary information to support your application.

#### **4. Important Notes**

Applicant should note whether the application is approved or not is at the discretion of the Environmental Protection Department (EPD). Supplementary information may be necessary and requested by EPD to consider the application for approval of emissions compliances. It is the responsibility of the applicant to submit adequate documents to demonstrate that the concerned vehicle has fulfilled all the application requirements.

Applicant should bear in mind that the application must demonstrate emissions compliances before the concerned vehicle(s) can be registered in Hong Kong. Therefore, applicants are advised to obtain prior approval from EPD before the logistic and commercial arrangements (e.g. shipping their vehicles into Hong Kong; scheduling vehicles for examination; sale of vehicles...etc.). Any loss incurred as a result of the application being declined will be totally at applicant's own risk. Applicants need to be aware that the following reasons are not generally acceptable for requesting priority processing or early issuance of approval letters:

- (1) the vehicle has to be registered ahead of normal schedule due to customer's request; or
- (2) the applicant has scheduled the vehicle examination before the issuance of approval letter.

## 5. Submission of Application

For application via the One-Stop Shop System (applicable to all vehicle classes except Bus and Special Purpose Vehicle (SPV))

The completed application form together with all supporting documents saved in two CDs or DVDs (please refer to the checklist on page 3 for details of supporting documents) should be sent to the Transport Department via the One-Stop-Shop System. The delivery address is Transport Department, Vehicle Safety and Standards Division located at 10/F, South Tower, West Kowloon Government Offices, 11 Hoi Ting Road, Yau Ma Tei, Kowloon.

For application directly submitted to EPD (applicable to Bus and SPV)

If applicant only applies for emission certificate from EPD, the applicant should submit the completed application form via the Environmental Protection Interactive Centre (EPIC) ([link](#)). Subsequently, all the supporting documents (please refer to the checklist on page 3) stored in two CDs or DVDs should be submitted to EPD by post or in person within 2 working days. The delivery address is as follows:-

Service Counter of Environmental Protection Department,  
34/F, Revenue Tower,  
5 Gloucester Road,  
Wan Chai,  
Hong Kong  
[Attn: Vehicle Programme Section (1), Mobile Source Group of Air Policy Division]

### Enquiry:

	<b>Exhaust emission</b>	<b>Noise emission</b>
E-mail address:	<a href="mailto:msg.ta@epd.gov.hk">msg.ta@epd.gov.hk</a>	<a href="mailto:epdnpg@epd.gov.hk">epdnpg@epd.gov.hk</a>
Telephone No.:	(852) 2594 6392	(852) 2411 9689
Fax No.:	(852) 2824 9361	(852) 2413 3358

# ENVIRONMENTAL PROTECTION DEPARTMENT

## APPLICATION FOR MOTOR VEHICLE (ENGINE) EXHAUST AND NOISE EMISSIONS TYPE APPROVAL

(For motor vehicle with at least 4 wheels and design weight more than 3.5 tonnes)

*Both exhaust and noise emission type approvals are not required for "New Energy Vehicles" (i.e. battery electric vehicles and hydrogen fuel cell vehicles) which do not have internal combustion engines or exhaust emission systems.*

Make<sup>G1</sup> (0.1. of TA001): \_\_\_\_\_

Commercial Name or Model Name  
or Sale Designation<sup>G1</sup> (0.2.1. of TA001): \_\_\_\_\_

Class of Vehicle: (e.g. Public Bus) \_\_\_\_\_

### **PART I**

#### **A. Applicant's information**

Company: \_\_\_\_\_

Address: \_\_\_\_\_

Business Registration Certificate No.: \_\_\_\_\_

Telephone No.: \_\_\_\_\_ Fax No.: \_\_\_\_\_

Name (Contact Person): \_\_\_\_\_

Telephone No. (Contact Person): \_\_\_\_\_

E-mail Address (Contact Person): \_\_\_\_\_

Signature (Applicant): \_\_\_\_\_

Name: \_\_\_\_\_ Date: \_\_\_\_\_

Position: \_\_\_\_\_

E-mail Address: \_\_\_\_\_

*Company chop*

### **Checklist**

Please tick the relevant boxes

Two CD or DVDs containing this application form, third party certificates, third party test reports and related information such as STA001 & TA001 forms of TD, VECA form of EPD together with drawing folder if necessary, vehicle dimension drawing, maintenance schedule, model code breakdown (type, variant and version explanation) and vehicle identification number (VIN) explanation for the vehicle model.

Supplementary supporting documents, please specify \_\_\_\_\_

<sup>G1</sup> This will appear in the EPD's approval letter

## B. Declarations

### B.1) Declaration by Vehicle / Manufacturer

#### I certify that

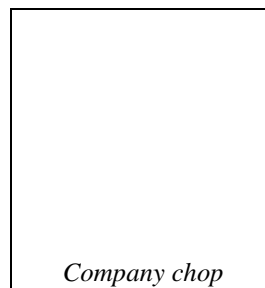
- (a) the information in PART II – Information of the Vehicle (Engine) Model for Type Approval is the correct description of the vehicle (engine) model under application;
- (b) the vehicle / engine type described in Part A, Part B and Part C complies with the exhaust emission standards and the noise emission standards as laid down in the Air Pollution Control (Vehicle Design Standards) (Emission) Regulations (Cap.311J) and Noise Control (Motor Vehicles) Regulation (Cap.400I) respectively;
- (c) adequate arrangements and prepared documented quality control plans with certification to international standard such as EN ISO 9002 – 1994, or EN ISO 9001 – 2000 or an equivalent standard accepted by the Environmental Protection Department has been set up to ensure all vehicles and engines produced and offered for sale in Hong Kong comply with the exhaust emission standards as laid down in the Air Pollution Control (Vehicle Design Standards) (Emission) Regulations;
- (d) at least 1% (or % as agreed with the Environmental Protection Department) of the total sales of the vehicles or engines of the model for which emission type approval is sought, and destined for Hong Kong will be sampled randomly for exhaust emission test to confirm the vehicle (engine) model complies with the emission requirements in the Air Pollution Control (Vehicle Design Standards) (Emission) Regulations;
- (e) an annual report will be submitted to the Environmental Protection Department for the approved vehicle model or engine model substantiating the fulfillment of the conformity of production requirements in the approved conformity production plan; and
- (f) carbon dioxide emissions and fuel consumption figures of the vehicle shall set out in document, website or etc to potential purchasers.

Authorized Homologation Staff Signature: \_\_\_\_\_

Name: \_\_\_\_\_ Date: \_\_\_\_\_

Position: \_\_\_\_\_

Company: \_\_\_\_\_



**B.2) Declaration by Vehicle Dealer who will Provide the Vehicle Model with Design Weight of More Than 3.5 Tonnes and Equipped with SCR System**

**I undertake that**

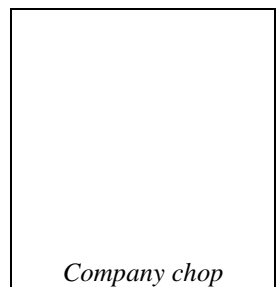
- (a) adequate arrangements will be made to ensure uninterrupted supply of urea solution complying with DIN 70070 / ISO 22241 standards in appropriate locations such as customer service centres or maintenance depots to customers;
- (b) characteristics of urea solution (e.g. type, concentration and operational temperature conditions), proper operation of the vehicles and the frequency of refilling the urea solution should be informed to the customers;
- (c) information about the urea refilling infrastructure such as locations and the contact numbers will be disseminated to customers upon the purchase of vehicles equipped with SCR system; and
- (d) any change of location for urea solution should inform the customers and Motor Trader Association as far as practicable by appropriate means.

Authorized Dealer's Staff Signature: \_\_\_\_\_

Name: \_\_\_\_\_ Date: \_\_\_\_\_

Position: \_\_\_\_\_

Company: \_\_\_\_\_



**PART II INFORMATION OF THE VEHICLE (ENGINE) MODEL FOR TYPE APPROVAL**

Please list out the corresponding supporting documents for Parts II.A, B & C		
Documents	Document name (e.g. ABC.pdf)	Total pages
(1)		
(2)		
(3)		
(4)		
(5)		
(6)		
(7)		
(8)		
(9)		
(10)		
(11)		
(12)		
(13)		
(14)		
(15)		
(16)		
(17)		
(18)		
(19)		
(20)		

## This vehicle model can meet the qualifying standards of Environment-friendly Commercial Vehicles.

### **II.A. Details of the Motor Vehicle, Engine, Air–Intake and Exhaust Control Systems**

#### **A.1) Description of Motor Vehicle**

Vehicle Make (0.1. of TA001)	:	
Vehicle Type (0.2. of TA001)	:	
Variant (0.2. of TA001)	:	
Version (0.2. of TA001)	:	
Model Code (0.2. of TA001)	:	
Commercial Name or Model Name or Sale	:	
Designation (0.2.1. of TA001)		
Class of Vehicle (e.g. Public Bus) (0.4. of TA001)	:	
Category of Vehicle <sup>G2</sup> (e.g. M3)	:	
Name and Address of Manufacturer (0.5. of TA001)	:	
Name and Address of Manufacturer's Local	:	
Authorized Representative and his C&E ID,		
if any (0.5a. of TA001)		
Vehicle Identification Number	:	
Design Weight (kg) <sup>G3</sup>	:	[page __ of Doc ( )]
Unladen Mass of Vehicle (kg)	:	[page __ of Doc ( )]
Technically Permissible Maximum Laden	:	[page __ of Doc ( )]
Mass (kg) <sup>G4</sup>		
Seating Capacity (Including Driver)	:	[page __ of Doc ( )]
Number of Doors (Excluding Hatchback)	:	[page __ of Doc ( )]
Gearbox (Make)	:	
Gearbox Type	:	
		[page ____ of Doc ( )]
Gearbox (Model No.)	:	
Number of Gears	:	Forward:
		Reverse:

<sup>G2</sup> As defined in the Consolidated Resolution on the Construction of Vehicles (R.E.3.), document ECE/TRANS/WP.29/78

<sup>G3</sup> Maximum design loaded vehicle weight as recommended by the manufacture of a motor vehicle and to be marked on the Approval Letter

<sup>G4</sup> “Technically permissible maximum laden mass” means the maximum mass of the vehicle based on its construction and performance, stated by the manufacturer

Gear Ratios:

[page \_\_\_\_ of Doc ( )]

Gear Ratios:			
Transmission	Internal gearbox ratios	Final drive ratio(s)	
	1	7	
	2	8	
	3	9	
	4	10	
	5	11	
	6	12	
	Reverse:		
CVT <sup>G5</sup>	Max:	Min:	
	Reverse:		

Maximum Vehicle Speed (km/h)

:

[page \_\_ of Doc ( )]

Driving Wheels (Powered Axles)

:

[page \_\_ of Doc ( )]

## Tyre Specifications

- Axle 1 :  
 - Axle 2 :  
 - Axle 3 :  
 - Axle 4 :  
 - Axle 5 :

## Tyre / Wheel Combination(s):

- Axle 1 :  
 - Axle 2 :  
 - Axle 3 :  
 - Axle 4 :  
 - Axle 5 :

**A.2) Description of Engine and/or Electric Motor**

[page \_\_\_\_ of Doc ( )]

Engine Manufacturer (Make) (3.1. of TA001)

:

Electric Motor Manufacturer (Make)

:

Engine Code Marked (Type) (3.1.1. of TA001)

:

Electric Motor Marked (Type)

:

Cycle

:

Others \_\_\_\_\_

Ignition System

:

Number and Arrangement of Cylinders

:

Bore (mm)

:

Stroke (mm)

:

Firing Order of Cylinders

:

Engine Capacity (c.c.) (3.2.1.3. of TA001)

:

Battery Capacity of the Vehicle

:

\_\_\_\_\_ Ah@ \_\_\_\_\_ V= \_\_\_\_\_ kWh

<sup>G5</sup> Maximum and minimum ratios for CVT



Volumetric Compression Ratio : \_\_\_\_\_

Low (Normal) Idle Engine Speed (rpm) : \_\_\_\_\_ + \_\_\_\_\_ / - \_\_\_\_\_

Rated Maximum Power Output of Engine : \_\_\_\_\_ kW at \_\_\_\_\_ - \_\_\_\_\_ rpm

Rated Maximum Torque Output of Engine : \_\_\_\_\_ Nm at \_\_\_\_\_ - \_\_\_\_\_ rpm

Rated Maximum Power Output of Electric Motor : \_\_\_\_\_ kW at \_\_\_\_\_ - \_\_\_\_\_ rpm

Maximum Hourly Output of Electric Motor : \_\_\_\_\_ kW

Maximum Designed No Load Engine Speed (Diesel only) (rpm) : \_\_\_\_\_ + \_\_\_\_\_ / - \_\_\_\_\_

Fuel Used : \_\_\_\_\_ Other \_\_\_\_\_  
[page \_\_\_\_ of Doc ( )]

Vehicle Fuel Type : \_\_\_\_\_

Maximum Amount of Biofuel Acceptable : \_\_\_\_\_ % by volume

Fuel Supply System : \_\_\_\_\_  
[page \_\_\_\_ of Doc ( )]

Cooling System : \_\_\_\_\_

Method of Aspiration : \_\_\_\_\_  
Other \_\_\_\_\_

Hybrid Electric Vehicle : \_\_\_\_\_ [page \_\_\_\_ of Doc ( )]  
(If YES, Pure Electric Range: \_\_\_\_\_ km)  
(If YES, Battery Capacity: \_\_\_\_\_ kWh)

Category of Hybrid Electric Vehicle<sup>G6</sup> : \_\_\_\_\_  
[page \_\_\_\_a of Doc ( )]

Operating Mode Switch : \_\_\_\_\_

Start-Stop System : \_\_\_\_\_

Access to Vehicle OBD and Vehicle Repair and Maintenance Information : \_\_\_\_\_  
[page \_\_\_\_ of Doc ( )]

Engine Electronic Control Unit (EECU) (all engine types) [page \_\_\_\_ of Doc ( )]

(i) Make : \_\_\_\_\_

(ii) Type : \_\_\_\_\_

(iii) Software calibration number(s) : \_\_\_\_\_

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<sup>G6</sup> Plug-in hybrid allows off-vehicle charging by plugging it into an external source of electric power

### **A.3) Description and Drawings of the Air-intake and Exhaust Control System**

#### **1. Air-Intake System:**

Description and Drawings (showing in a plan view and a lateral view) of the air-intake system indicating the location of the intake silencer(s) and the air filter(s):

**(i) Air Filter, Drawing Number:** [page a\_\_a of Doc ( )]

Model / Type:

Identification Marks:

Manufacturer / Authorized Agent:

**(ii) Air Intake Silencer, Drawing Number:** [page a\_\_a of Doc ( )]

Model / Type:

Identification Marks:

Manufacturer / Authorized Agent:

#### **2. Exhaust Control System**

Description and Drawings (showing in a plan view and a lateral view) of the exhaust system indicating the location of the muffler(s), the catalytic converter(s), the oxygen sensor(s) and NOx sensor etc.:

**(i) Exhaust Silencer, Drawing Number:** [page a\_\_a of Doc ( )]

Model / Type (with numbers):

Identification Marks:

Manufacturer / Authorized Agent:

**(ii) Device for Recycle Crankcase Gases:** [page a\_\_a of Doc ( )]

Description and Drawing Number:

**(iii) Catalytic Converter, Drawing Number:** [page a\_\_a of Doc ( )]

Model / Type (with numbers):

Identification Marks:

Manufacturer / Authorized Agent:

**(iv) DeNOx System:** [page a\_\_a of Doc ( )]

Type of the deNOx System:

Description and Drawing Number:

Consumable reagents (where appropriate):

Type and concentration of reagent needed for catalytic action:

International standard (where appropriate):

Frequency of reagent refill:

(v) **Oxygen Sensor, Drawing Number:** [page a\_\_a of Doc ( )]

Model / Type (with numbers):

Identification Marks:

Manufacturer / Authorized Agent:

(vi) **Secondary Air Injection:** [page a\_\_a of Doc ( )]

Description and Drawing Number:

Type (Pulse air, air pump etc.):

(vii) **Exhaust Gas Recirculation:** [page \_\_aa of Doc ( )]

Description and Drawing Number:

**(For Positive Ignition Engine Only)**

(viii) **Evaporative Emission Control System:** [page aa\_\_ of Doc ( )]

Description and drawing (showing in schematic diagram):

Drawing Number of Carbon Canister:

(ix) **Particulate Trap / Diesel Particulate Filter :** [page a\_\_a of Doc ( )]

Type and design:

Method or system of regeneration:

Description and Drawing Number:

(x) **NOx Sensor:** [page \_\_aa of Doc ( )]

Description and Drawing Number:

(xi) **Torque limiter:** [page a\_\_a of Doc ( )]

Description of the torque limiter activation:

Description of the full load curve limitation:

(xii) **Other Anti-Pollution Devices:** [page a\_\_a of Doc ( )]

Description and Drawing Number:

**A.4) Description and Diagram of Motor Vehicle with Overall Dimensions**

[page a\_\_a of Doc ( )]

*Note: Attach separate sheet(s) showing a plan view, a front view and a lateral (side) view of Motorcycle if necessary*

Petrol Vehicle Fuel Tank Filling Pipe Neck Inside Diameter  $\leq 23.6\text{mm}$ : Yes / No \*

Fuel Tank Filling Pipe Neck Inside Diameter for Petrol Vehicle = \_\_\_\_ mm

Overall Dimensions of Motor Vehicle

\_\_\_\_ (Length) x \_\_\_\_ (Width) x \_\_\_\_ (Height) mm

**A.5) Maintenance and Service Schedule under Normal and Severe Use** [page a\_\_a of Doc ( )]

*Note: Attach separate sheet(s) if necessary*

**A.6) Details of On-Board Diagnostic (OBD) System**

[page a\_\_a of Doc ( )]

1. The OBD system complies with the OBD requirements laid down in Directive 2005/55/EC or 595/2009 \* of the European Parliament and of the Council as amended by its subsequent amendments up to and including amendments made by Commission Directive 2008/74/EC or other equivalent.\*

(state if any) \_\_\_\_\_ [page \_\_\_\_ of Doc ( )]

2. Attach comprehensive fault code list and descriptions of the malfunction indicator (MI) used by the OBD system to signal the presence of faults.

\_\_\_\_\_ [page \_\_\_\_ of Doc ( )]

3. Attach list of all relevant parts of the vehicle's emission control system that are monitored by the OBD system such as catalyst monitoring, deNOx system monitoring, diesel particulate filter monitoring, electronic fuelling system monitoring, reagent consumption monitoring or other components monitored by the OBD system etc., if equipped, for compression ignition engines. Details of monitoring method, monitoring flow chart (if any), monitoring condition and malfunction criteria for each relevant part monitored by the OBD system.

\_\_\_\_\_ [page \_\_\_\_ of Doc ( )]

4. Full OBD system test report

Attach an OBD system test report.

The OBD system test has been carried out in accordance with OBD specifications laid down in Directive 2005/55/EC or 595/2009 \* of the European Parliament and of the Council as amended by its subsequent amendments up to and including amendments made by Commission Directive 2008/74/EC or other equivalent\* (state if any). \_\_\_\_\_ [page \_\_\_\_ of Doc ( )]

**A.7) Details of reagent control and measures to discourage tampering of exhaust aftertreatment systems** [page \_\_\_\_ of Doc ( )]

*Note: Attach separate sheet(s) if applicable and necessary.*

## **II.B. Exhaust Emission Results**

### ***Important Notes:***

- (1) For emission tests conforming to EC Directive, please complete Parts B.1 and B.2 and provide necessary EC Type Approval Certificates for Exhaust Emission, Gaseous and Particulate Emission, Smoke Emission or third party supporting information such as emission test report, etc. for verifying the emission test results in Part B.2.
- (2) For emission tests conforming to US Standard, please complete Parts B.1 and B.2 and provide necessary supporting information such as emission test reports for verifying emission test results in Part B.2.

### **B.1) Certificate of Compliance for Gaseous, Particulate & Smoke Emission**

#### **1. List out EC Certificate Number / Conforming Standard for**

Whole Vehicle Type Approval	:	[page a__a of Doc ( )]
Exhaust Emission	:	[page a__a of Doc ( )]
Smoke Emission	:	[page a__a of Doc ( )]

#### **2. List out Test Report Number for**

Whole Vehicle Type Approval	:	[page __aa of Doc ( )]
Exhaust Emission	:	[page a__a of Doc ( )]
Smoke Emission	:	[page __aa of Doc ( )]
OBD System	:	[page a__a of Doc ( )]
Test Fuel Specifications	:	[page a__a of Doc ( )]

## B.2) Engine Emission Test Report

### 1. Identification of Vehicle Tested

Engine No.<sup>E1</sup> : [page a\_\_a of Doc ( )]  
Chassis No.<sup>E1</sup> :  
Odometer Reading (km) :  
Maximum and/or Minimum :  
Intake Depression (kPa)  
Maximum Back Pressure (kPa) :

### 2. Emission Test Results

Please specify the emission standards complied: and  
complete the relevant section accordingly.

#### 2.1(A) For emission tests conforming to EC Directive

2.1(A).1 WHSC Tests [page aa\_\_ of Doc ( )]

Date of Testing:

<i>Parameter</i>	<i>Emitted Mass</i>	<i>Unit</i>	<i>Deterioration Factor</i>	<i>Results</i>	<i>Limit</i>
CO		(g/kWh)			
HC		(g/kWh)			
NO <sub>x</sub>		(g/kWh)			
NH <sub>3</sub>		(in ppm)			
PM		(g/kWh)			
PN		(#/kWh)			
Smoke		(m <sup>-1</sup> )			

2.1(A).2 WHTC Test [page a\_\_a of Doc ( )]

Date of Testing:

<i>Parameter</i>	<i>Emitted Mass</i>	<i>Unit</i>	<i>Deterioration Factor</i>	<i>Results</i>	<i>Limit</i>
CO		(g/kWh)			
HC		(g/kWh)			
NMHC		(g/kWh)			
NO <sub>x</sub>		(g/kWh)			
CH <sub>4</sub>		(g/kWh)			
NH <sub>3</sub>		(ppm)			
PM		(g/kWh)			
PN		(#/kWh)			

	<i>WHSC Test</i>	<i>WHTC Test</i>
CO <sub>2</sub> Emission (g/kWh)		
Fuel Consumption (g/kWh)		

<sup>E1</sup> Details of the engine / chassis code to support the vehicle / engine tested are applicable to the applied vehicle

2.1(A).3 Portable Emissions Measurement System (PEMS) Test: \_\_\_\_\_

[page \_\_aa of Doc ( )]

Date of Testing:

<b>Parameter</b>	<b>Conformity Factor #</b>		<b>Limit</b>		
CO					
HC					
NOx					
CH <sub>4</sub>					
# - Work Window 90% percentile conformity factor. The fuel standard should be EN590.					

2.1(A).4 World Harmonized Not-To-Exceed ( ) Test: \_\_\_\_\_

[page a\_\_a of Doc ( )]

	<b>Result 1</b>	<b>Result 2</b>	<b>Result 3</b>	<b>Unit</b>	<b>Limit</b>
CO				(g/kWh)	
HC				(g/kWh)	
NOx				(g/kWh)	
PM				(g/kWh)	

2.1(A).5 Durability of Anti-Pollution Control Devices

Date of Testing:

[page \_\_\_\_a of Doc ( )]

Durability Type :

Deterioration Factors :

	<b>CO</b>	<b>HC</b>	<b>NMHC</b>	<b>CH<sub>4</sub></b>	<b>NOx</b>	<b>PM</b>	<b>PN</b>
Deterioration Factors							

Name and Address of the :

Approved Test Laboratory

Laboratory Approved by :

(Name and Address of

National or Recognized Authority)

## 2.1(B) For emission tests conforming to US Standard

### 2.1(B).1 Engine Emission Test

[page \_\_\_ a of Doc ( )]

Date of Testing:

Testing Cycle:

<i>Parameter</i>	<i>Emitted Mass</i>	<i>Unit</i>	<i>Deterioration Factor</i>	<i>Results</i>	<i>Limit</i>
CO		(g/kWh)			
HC		(g/kWh)			
NMHC		(g/kWh)			
NOx		(g/kWh)			
PM		(g/kWh)			

### 2.1(B).2 Durability of Anti-Pollution Control Devices

[page \_\_\_ a of Doc ( )]

Date of Testing:

Durability type:

Deterioration Factors:

	<i>CO</i>	<i>HC</i>	<i>NMHC</i>	<i>NOx</i>	<i>PM</i>
Deterioration Factors					

Name and Address of the :  
Approved Test Laboratory

Laboratory Approved by :  
(Name and Address of  
National or Recognized Authority)

## 2.2 Smoke Test (For compression ignition engine of EU5 emission only) [page \_\_\_ a of Doc ( )]

Free Acceleration Smoke Test Result according to 72/306/EC test procedure and its subsequent amendments up to and including amendments made by 2005/21/EC.

### Identification of Vehicle Tested

Engine No. <sup>(E2)</sup> :

Chassis No. <sup>(E2)</sup> :

Odometer Reading (km) :

Date of Testing :

Opacimeter Used :

	<i>Measured</i>	<i>Corrected</i>	<i>Limit</i>
Light Absorption Coefficient (m <sup>-1</sup> )			1.0

<sup>E2</sup> Details of the engine / chassis code to support the vehicle / engine tested are applicable to the applied vehicle.



Name and Address of the :  
Approved Test Laboratory

Laboratory Approved by (Name :  
and Address of National or  
Recognized Authority)

### **2.3 Carbon Monoxide Emission at Idling Speed (For positive ignition engine only)**

Date of Testing :  
At Idling Engine Speed ( $\text{min}^{-1}$ ) :  
Corrected CO Value (% Volume) :  
Limit (% Volume) :

### **2.4 Emission of Crankcase Gases (For positive ignition engine only)**

Date of Testing :  
Test Result :

### **2.5 Evaporative Emission Test (For positive ignition engine only)**

Date of Testing :  
Test Method :  
Test Result (g/test) :

## **II.C. Details of the Noise Emission Test and the Test Results**

### ***Important Notes:***

- (1) For noise emission tests conforming to European Union (EU) Directive other than Regulation (EU) No 540/2014, please complete Part C and Appendix I. Please also provide necessary EU Type Approval Certificate for Noise Emission or certificate for noise emission issued by third party recognized by EU Type Approval Authority, etc. for verifying the noise emission test results in Part C & Appendix I. A copy of the corresponding test report is necessary.
- (2) For noise emission tests conforming to Japan Standard, please complete Part C and Appendix I and supplement the following information:
  - (a) a proof that this model is approved under appropriate system in Japan; and
  - (b) a copy of the test report recognized/approved by Japan Authority / NTSEL or any other documents which can prove noise emission in compliance to the satisfaction of EPD is attached.
- (3) For noise emission tests conforming to Regulation (EU) No. 540/2014 or United Nation Economic Commission for Europe (UNECE) Regulation No. 51, 03 series of amendment (51R-03), please complete Part C and Appendix I: Items 1, 2, 3 & 4, if applicable. Please also provide necessary relevant Type Approval Certificate for Noise Emission or certificate for noise emission issued by third party recognized by relevant Type Approval Authority, etc. for verifying the noise emission test results in Part C & Appendix I. A copy of the corresponding test report is necessary.

## C. Motor Vehicle Noise Emission Level Test Results

The description of the motor vehicle and

is in Parts A1 & A2.

### Identification of Vehicle Tested

Number of Type Approval Certificate(s) :

Number of Test Report(s) :

Vehicle Type :

Variant :

Version :

Engine No.<sup>N1</sup> :

Electric Motor No.<sup>N1</sup> :

Chassis No.<sup>N1</sup> :

Test Date :

Test Site :

Name and Address of the Technical Service Responsible for Carrying Out the Tests:

### Conforming Noise Standards

The tests have been carried out in accordance with the testing procedures of the noise standards in the Noise Control (Motor Vehicles) Regulation. The specific testing procedures adopted are as follows:

- |                          |  |   |
|--------------------------|--|---|
| <input type="checkbox"/> | Moving Vehicle Noise Test                        | (EU 540/2014 or 51R-03 standards only)  |
| <input type="checkbox"/> | Stationary Noise Level Test                      | (EU standard only)  |
| <input type="checkbox"/> | Compressed Air Noise Test                        | (where applicable, EU standard only)  |
| <input type="checkbox"/> | Accelerated Running Noise Level Test             | (EU 70/157/EEC as amended by 92/97/EEC and 96/20/EC or 51R-02* and Japan standards) |
| <input type="checkbox"/> | Additional Sound Emission Provisions (ASEP) Test | (where applicable, EU 540/2014 or 51R-03 standards only)                            |
| <input type="checkbox"/> | Steady Running Noise Level Test                  | (Japan standard only)   |
| <input type="checkbox"/> | Proximity Stationary Noise Level Test            | (Japan standard only)   |

*You should also **provide the appropriate test results** which comply with the noise standards indicated above. A model test results format as shown in the Appendix I, for reference, should facilitate the interpretation of test results.*

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<sup>N1</sup> Details of the engine / electric motor / chassis code to support the vehicle / engine / electric motor tested are applicable to the applied vehicle

## Appendix I Model Format for the Presentation of the Motor Vehicle Noise Results

### 1) Moving Vehicle Noise Test (for EU 540/2014 or 51R-03 standards only):

Source of reference: [page \_\_\_\_ of Doc ( )]

Full throttle acceleration test		Power-to-mass ratio, PMR			Reference acceleration, $a_{wot,ref}$ (m/s <sup>2</sup> )		Target acceleration, $a_{urban}$ (m/s <sup>2</sup> )		
Used gear position	Specified speed (km/h)	Average test speed (km/h) and engine speed (min <sup>-1</sup> ) <sup>N2</sup>			Ambient noise level [dB(A)]	Average compensated vehicle noise level [dB(A)]		Average acceleration $a_{wot(i)}$ (m/s <sup>2</sup> )	Intermediate level $L_{wot(i)}$ [dB(A)]
		$v_{AA'}^{N2}$	$v_{PP'}^{N2}$	$v_{BB'}^{N2}$		Left	Right		
		$n_{AA'}^{N2}$	$n_{PP'}^{N2}$	$n_{BB'}^{N2}$					
Constant speed test									
Used gear position	Specified speed (km/h)	Average test speed (km/h) and engine speed (min <sup>-1</sup> ) <sup>N2</sup>			Ambient noise level [dB(A)]	Average compensated vehicle noise level [dB(A)]		Intermediate level at i <sup>th</sup> gear $L_{crs(i)}$ [dB(A)]	
		$v_{AA'}^{N2}$	$v_{PP'}^{N2}$	$v_{BB'}^{N2}$		Left	Right		
		$n_{AA'}^{N2}$	$n_{PP'}^{N2}$	$n_{BB'}^{N2}$					
Final test result									
Gear weighting factor (k)					$L_{wot}$ rep [dB(A)]		$L_{crs}$ rep [dB(A)]		
Partial power factor ( $k_p$ )					$L_{urban}$ [dB(A)]		Limit of $L_{urban}$ [dB(A)]		

### 2) Stationary Noise Level Test (for EU standard only)

Source of reference: [page \_\_\_\_ of Doc ( )]

No. of Measurement	Engine speed delivering maximum powered output (rpm)	Test speed (rpm)	Ambient noise level [dB(A)]	Motor vehicle noise level [dB(A)]				Test result [dB(A)]
				Measured value		Compensated value		
				Left	Right	Left	Right	
1								
2								
3								
4								

<sup>N2</sup> AA', PP' and BB' represent positions at entry, microphone position and exit along the test track respectively. Necessary test speed and engine speed results of each individual measurement shall be provided in the detailed vehicle test report for conformity assessment. **The average values of all individual measurements are to be provided here.**

3) Compressed Air Noise Test (where applicable, for EU standard only)

Source of reference: [page \_\_\_\_ of Doc ( )]

	No. of Measurement	Ambient noise level (dB(A))	Measured value [dB(A)]		Test result [dB(A)]	Overall Result [dB(A)] [Limit:72]
			Left	Right		
Pressure Regulator	1					
	2					
Park Brake	1					
	2					
Service Brake	1					
	2					

4) ASEP Test (M1 and N1 vehicles with applicable specifications, for EU 540/2014 or 51R-03 standards only) // OR a copy of statement as per the Appendix of Annex 7 in 51R-03:

Source of reference: [page \_\_\_\_ of Doc ( )]

ASEP Control Range		Power-to-mass ratio			Idle engine speed (min <sup>-1</sup> )			n <sub>BB'</sub> (min <sup>-1</sup> )	
Used gear position	Specified v <sub>BB'</sub> (km/h)	Test speed (km/h), engine speed (min <sup>-1</sup> ) & acceleration (m/s <sup>2</sup> )			Ambient noise level [dB(A)]	Compensated vehicle noise level [dB(A)]		ASEP noise level [dB(A)]	ASEP noise limit [dB(A)]
		v <sub>AA'</sub> <sup>N3</sup>	v <sub>BB'</sub> <sup>N3</sup>	a_ASEP		Left	Right		
		n <sub>AA'</sub> <sup>N3</sup>	n <sub>BB'</sub> <sup>N3</sup>						
Test Point 1									
Test Point 2									
Test Point 3									
Test Point 4									

<sup>N3</sup> 1) For two or more test gears, please fill in supplementary sheet with the similar format as above and submit separately;  
2) AA', BB' represent positions at entry and exit along the test track, respectively; necessary results of each individual measurement shall be provided in the detailed vehicle test report for conformity assessment.

5) Accelerated Running Noise Level Test (for EU and Japan standards, other than EU 540/2014 & 51R-03)

Source of reference: [page \_\_\_\_ of Doc ( )]

No. of Measurement	Used gear position or range	Specified speed (km/h)	Test speed (km/h)		Ambient noise level [dB(A)]	Motor vehicle noise level [dB(A)]				Test result [dB(A)]	Noise level limit [dB(A)]
			Entry	Exit		Measured value		Compensated value			
						Left	Right	Left	Right		
1											
2											
3											
4											

6) Steady Running Noise Level Test (for Japan noise standard only)

Source of reference: [page \_\_\_\_ of Doc ( )]

No. of Measurement	Used gear Position or range	Specified speed (km/h)	Test speed (km/h)	Ambient noise level [dB(A)]	Motor vehicle noise level [dB(A)]		Test result [dB(A)]	Noise level Limit [dB(A)]
					Measured value	Compensated value		
1								
2								

7) Proximity Stationary Noise Level Test (for Japan noise standard only)

Source of reference: [page \_\_\_\_ of Doc ( )]

No. of Measurement		Engine speed delivering maximum powered output (rpm)	Ambient noise level [dB(A)]	Motor vehicle noise level [dB(A)]		Test result [dB(A)]	Noise level limit [dB(A)]
				Measured value	Compensated value		
Left	1						
	2						
Right	1						
	2						

### Notes 註釋

1. EPD will not accept any original documents that contain erasures or amendments unless the applicant can provide a reasonable explanation accompanied by documentary proof recognised by the EPD (e.g. explanation letters issued by vehicle manufacturers or foreign government authorities).  
環保署不會接納任何經過塗擦或更改的正本文件，除非申請人能提供合理解釋，並且附上環保署認可的證明文件（例如，由車輛製造商或外國運輸當局所簽發的解釋信）。
2. All documents submitted should be in either English or Chinese. Otherwise, they must be accompanied by English or Chinese translations certified by organisation recognised by the EPD (e.g. foreign consulates, professional translation company, etc.).  
所有遞交的文件必須以英文或中文書寫。如果文件是以英文或中文以外的另一語文寫成，該等文件必須附有由環保署認可機構（例如，外國領事館、專業翻譯公司等）所簽證的英文或中文譯本。

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  - b. administration and enforcement of relevant environmental legislation;
  - c. pollution complaint investigations;
  - d. statistical and any other legitimate purposes; and
  - e. to facilitate communications between Government and yourself.
2. The provision of personal data by means of this form is voluntary. If you do not provide sufficient information, we may not be able to process your application.

#### Classes of Transferees

3. The personal data you provided by means of this form may be disclosed to :
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4. You have a right of access and correction with respect to personal data as provided for in section 18 and 22 and principle 6 of Schedule 1 of the Personal Data (Privacy) Ordinance. Your right of access includes the right to obtain a copy of your personal data provided by this form.

#### Enquires

5. Enquires concerning the personal data collected by means of this form, including the making of access and corrections, should be addressed to :  
Senior Environmental Protection Officer (Knowledge Management)  
33/F., Revenue Tower, 5 Gloucester Road, Wanchai, Hong Kong.  
Tel: 2838 3111 Fax: 2838 3111

#### 收集個人資料

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1. 你在這份表格上提供的資料，環保署將用於下列一項或多項用途：
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  - c. 污染投訴調查；
  - d. 統計及其他法定用途；以及
  - e. 方便政府跟你聯絡。
2. 是否在本表格上提供個人資料，純屬自願性質。如果你不提供足夠的資料，本署未必可以處理你的申請。

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3. 你在本表格上提供的個人資料，本署可向下列人士披露：
  - a. 索取該等資料以作上文第1段用途的其他政府決策局、部門及第三方服務提供者；以及
  - b. 按有關法例獲准的其他人士。

#### 查閱個人資料

4. 根據個人資料（私隱）條例第18條及第22條及附表1第6原則的規定，你有權查閱和更改個人資料。你查閱個人資料的權利，包括取得這份表格上提供的個人資料副本。

#### 查詢

5. 如欲查詢經本表格填報的個人資料，包括查閱和更改個人資料，可去信：  
香港灣仔告士打道5號稅務大樓33樓  
高級環境保護主任（知識管理）  
電話：2838 3111 傳真：2838 3111