

**Model information document relating to EU type-approval of a type of (or a type of a vehicle with regard to) an external sound level system**

<b>A.</b>	<b>General information</b>	<b>Comments</b>
2.	<b>General information concerning systems, components or separate technical units</b>	
2.1.	<b>Make(s) (trade name(s) of manufacturer):</b>	
2.2.	<b>Type:</b>	
2.2.1.	Commercial name(s) (if available):	
2.2.2.	Type-approval number(s) (if available):	
2.2.3.	Type-approval(s) issued on (date, if available):	
2.2.4.	For components and separate technical units, location and method of attachment of the type-approval mark(s) (if available):	
2.3.	<b>Company name and address of manufacturer:</b>	
2.3.1.	Name(s) and address(es) of assembly/manufacture plants:	
2.3.2.	Name and address of manufacturer's authorised representative (if any):	
2.4.	<b>For systems and separate technical units, vehicle(s) for which they are intended for:</b>	
2.4.1.	Type:	
2.4.2.	Variant(s):	
2.4.3.	Version(s):	
2.4.4.	Commercial name(s) (if available):	
2.4.5.	Category, subcategory and speed index of the vehicle:	
5.	<b>General powertrain characteristics</b>	
5.1.	Maximum vehicle speed	
5.1.1.	Forward maximum vehicle speed	
5.1.1.1.	Declared maximum design vehicle speed:	_____ km/h

5.1.1.2.	Calculated maximum design vehicle speed in top gear (show factors used in calculation):	_____ km/h
5.1.1.3	Measured maximum vehicle speed:	_____ km/h
5.1.2.	Rearward maximum vehicle speed	
5.1.2.1.	Declared rearward maximum design vehicle speed:	_____ km/h
6.	<b>Essential characteristics of the engine</b>	
6.1.7.	Category and sub-category of the engine:	
6.2.1.	Combustion Cycle: four stroke cycle/two stroke cycle/rotary/other (specify):	
6.2.2.	Ignition Type: Compression ignition/spark ignition	
6.2.3.1.	Cylinders' number: and configuration:	_____ _____
6.3.2.1.	Declared rated speed:	_____ rpm
6.3.2.1.2.	Declared rated net power:	_____ kW
6.3.2.2.	Maximum power speed:	_____ rpm
6.3.2.2.2.	Maximum net power:	_____ kW
6.3.6.4.	Engine total swept volume:	_____ cm <sup>3</sup>
10.	<b>External sound level</b>	
10.1.	External sound level declared by the manufacturer	
10.1.1.	Moving:	_____ dB(A)
10.1.2	Stationary:	_____ dB(A)
10.1.3.	At engine speed:	_____ min-1
10.2.	Brief description and schematic drawing of exhaust system (including the air intake system, the devices for noise and tailpipe emission control):	
10.3.	Air-intake system	
10.3.1.	Intake manifold description (include drawings and/or photos):	
10.3.2.	Air filter	
10.3.2.1.	Photographs and/or drawings:	
10.3.2.2.	Make:	

10.3.2.3.	Type:	
10.3.3.	Intake silencer	
10.3.3.1.	Photographs and/or drawings:	
10.3.3.2.	Make:	
10.3.3.3.	Type:	
10.4.	Exhaust system	
10.4.1.	Description and/or drawing of the exhaust manifold:	
10.4.2.	Description and/or drawing of the elements of the exhaust system that are not part of the engine system:	
10.4.3.	Maximum allowable exhaust back pressure at rated engine speed and at 100 % load:	_____ kPa
10.4.4.	Type, marking of the exhaust noise-abatement device(s):	
10.4.4.1.	Exhaust noise-abatement device containing fibrous materials: yes/no:	
10.4.5.	Exhaust system volume:	_____ dm <sup>3</sup>
10.4.6.	Location of the exhaust outlet:	
10.4.7.	Additional noise-reducing measures in the engine compartment and on the engine for external noise (if any):	
10.5	Details of any non-engine related devices designed to reduce noise (if not covered by other items):	
11.	<b>Drive-train and control</b>	
11.1.	Brief description and schematic drawing of the vehicle drive-train and its control system (transmission ratio change system, clutch control or any other element of drive-train):	
11.2.	Transmission	
11.2.1.	Brief description and schematic drawing of transmission ratio change system(s) and its control:	
11.2.2.	Diagram and or drawing of the power transmission:	

11.2.3.	Type of power transmission: Gear (including planetary gear sets) / belt / hydrostatic / electric / other (if other, specify: ...)	
11.2.4.	Brief description of the electrical/electronic components (if any):	
11.2.5.	Location relative to the engine:	
11.2.6.	Method of control:	
11.2.7.	Transfer box: with/without	
11.2.8.	Type of transmission ratio change system: Mechanical (gear change) / Double clutch (gear change) / Semi-automatic (gear change) / Automatic (gear change) / Continuously Variable Transmission/ hydrostatic / not applicable / other (if other, specify: ...)	
11.3.	Clutch (if any)	
11.3.1.	Brief description and schematic drawing of the clutch and its control system:	
11.3.2.	Maximum torque conversion:	
11.4.	Gear ratios	

<b>Gear</b>	<b>Internal gearbox ratios (ratios of engine to gearbox output shaft revolutions)</b>	<b>Internal transfer box ratios (ratios of engine to transfer box output shaft revolutions)</b>	<b>Final drive ratio(s) (ratio of gearbox output shaft to driven wheel revolutions)</b>	<b>Total gear ratios</b>	<b>Ratio (engine speed/vehicle speed) for manual transmission only</b>
Maximum for CVT (*1)					
1					
2					
3					
...					
Minimum for CVT (*1)					
Reverse					
1					
...					

(<sup>\*1</sup>) Continuously variable transmission