



TRANSPORT FOR LONDON (TfL) LOW EMISSIONS CERTIFICATE (LEC) INFORMATION DOCUMENT FOR APPROVAL OF LOW EMISSIONS ADAPTATIONS

'LEC (Adaptations) Information Document'

1. GENERAL:

- 1.1. Name and address of manufacturer:
- 1.2. Name and address of manufacturer's authorised representative (if any):
- 1.3. Contact details (telephone number – website address):
- 1.4. Address(es) of assembly plant(s):
- 1.5. Make (Brand Name):
- 1.6. Manufacturer's designation of device (type or model):
- 1.7. Device type (Particulate Trap/Catalyst/etc):
- 1.8. Description of technology and operating principle (including schematic and assembly drawings):
- 1.9. Means of identification of type as marked on the device (model codes/part numbers):
- 1.10. Location of marking according to Paragraph 9.2.2 of the 'LEC Technical Requirements':
- 1.11. Details of any low emissions reduction accreditation (e.g. VERT, RDW, KBA):
- 1.12. Details of any other applicable technical standards (e.g. CE marking, Radio Interference):
 - 1.12.1. ECE R10 or 72/245/EEC (as amended) EMC Approval Number (if applicable):
- 1.13. Details of any design feature which could permit a non-conforming mode – for example, reversible filters or where a Low Emissions Adaptation incorporates any form of internal or external bypass and/or



permits exhaust gas to emerge to atmosphere without the required particulate reduction:

1.14. Detailed description and analysis of potential operational modes where circumstances may exist in-service which significantly reduce the effectiveness of the Low Emissions Adaptation – including details of the methods used to notify the vehicle driver/operator of these conditions when they occur:

1.14.1. Details of any special fuel/fuel additive requirements necessary for the correct functioning of the Low Emissions adaptation together with details of the measures taken to ensure the correct in-service operation of the adaptation:

2. TFL LEC EMISSIONS STANDARD:

2.1. LEC Limit/Stage(s) for which application is sought:

3. **ENGINE FITMENT DETAILS:** This section should be completed to identify the range of engine types/specifications to which the Low Emissions Adaptation may be fitted.

3.1. Make:

3.2. Type:

3.2.1. Location of type marking:

Either 3.3 or 3.4 -

3.3. ECE Regulation 49 or 88/77/EEC (as amended) approval number:

3.3.1. Location of approval number (if available):

3.3.2. Certified Particulate Level (g/kWh):

or

3.4. ECE Regulation 83 or 70/220/EEC (as amended) approval number:

3.4.1. Location of approval number (if available):

3.4.2. Certified Particulate Level (g/km):



- 3.5. Capacity (cm³):
- 3.6. Number of cylinders:
- 3.7. Maximum net power (kW):
 - 3.7.1. at (rpm):
- 3.8. Maximum net torque (Nm):
 - 3.8.1. at (rpm):
- 3.9. Cycle (2 stroke/4 stroke):
- 3.10. Pressure charger (None/Turbo-charged/Super-charged):
- 3.11. Charge air cooling (None/air-water/air-air):

4. VEHICLE INSTALLATION DETAILS: This section should be completed to cover the range of vehicle specifications to which the device may be fitted.

- 4.1. Vehicle type (Bus/Coach/Tipper/Drawbar/etc):
- 4.2. Vehicle Category/Categories (N1,N2,N3,M2,M3):
- 4.3. Applicable duty cycles, including any vehicle operational restrictions:
- 4.4. Installation instructions for the device including details to identify any critical dimensions and/or features that must be adhered with to ensure the correct functioning of the device (for example, the length of the exhaust pipe between the system and the outlet of the turbocharger):
- 4.5. Details of maintenance and service instructions to ensure the continued functioning of the device:
- 4.6. Details of in-service warranty provisions:



5. LIST OF ATTACHMENTS:

- Signature
- Name
- Company
- Position
- Date

Note: In submitting an LEC (Adaptations) Information Document, the applicant accepts that, following successful LEC approval, information given in the document may be made public.