

Directive 2000/25/EC of the European Parliament and of the Council of 22 May 2000 on action to be taken against the emission of gaseous and particulate pollutants by engines intended to power agricultural or forestry tractors and amending Council Directive 74/150/EEC (repealed)

DIRECTIVE 2000/25/EC OF THE EUROPEAN  
PARLIAMENT AND OF THE COUNCIL

of 22 May 2000

on action to be taken against the emission of gaseous and particulate pollutants by engines intended to power agricultural or forestry tractors and amending Council Directive 74/150/EEC (repealed)

THE EUROPEAN PARLIAMENT AND THE COUNCIL OF THE EUROPEAN UNION,

Having regard to the Treaty establishing the European Community, and in particular Article 95 thereof,

Having regard to the proposal from the Commission<sup>(1)</sup>,

Having regard to the opinion of the Economic and Social Committee<sup>(2)</sup>,

Acting in accordance with the procedure laid down in Article 251 of the Treaty<sup>(3)</sup>,

Whereas:

- (1) To ensure the proper functioning of the internal market, Council Directive 74/150/EEC of 4 March 1974 on the approximation of the laws of the Member States relating to the type-approval of wheeled agricultural or forestry tractors<sup>(4)</sup> and the 22 specific Directives adopted between 1974 and 1989 harmonised the technical specifications in this field.
- (2) In order to further safeguard the environment, it is necessary to supplement the measures already adopted by Council Directive 77/537/EEC of 28 June 1977 on the approximation of the laws of the Member States relating to the measures to be taken against the emission of pollutants from diesel engines for use in wheeled agricultural or forestry tractors<sup>(5)</sup> (opacity of exhaust gases) with other measures relating, in particular, to physicochemical emissions. By referring to the provisions of Directive 97/68/EC of the European Parliament and of the Council of 16 December 1997 on the approximation of the laws of the Member States relating to measures against the emission of gaseous and particulate pollutants from internal combustion engines to be installed in non-road mobile machinery<sup>(6)</sup>, this Directive lays down the limit values for emissions of gaseous and particulate pollutants to be applied in successive stages, and the test procedure for internal combustion engines intended to power agricultural or forestry tractors. Compliance with the provisions of Council Directive 88/77/EEC of 3 December 1987 on the approximation of the laws of the Member States relating to the measures to be taken against the emission of gaseous pollutants from diesel engines for use in vehicles<sup>(7)</sup>, can also be accepted as compliance with the requirements of this Directive.

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- (3) In order to facilitate access to third-country markets, it is necessary to establish equivalence between the requirements of this Directive for the first stage and the requirements laid down in United Nations Economic Commission for Europe (UN/ECE) Regulation No 96 concerning the component type-approval of compression ignition engines intended to be fitted to agricultural or forestry tractors in terms of their pollutant emissions.
- (4) In order to maximise the benefits for the European environment and, at the same time, to ensure the unity of the market, it is necessary to adopt very strict mandatory standards at regular intervals. Any further reduction in the limit values and any changes to the test procedure can be adopted only on the basis of studies and research to be conducted into existing and foreseeable technological potential and into the cost effectiveness thereof, in order to allow production on an industrial scale of agricultural or forestry tractors that are capable of meeting these more stringent limits.
- (5) Technical progress requires rapid adaptation of the technical requirements set out in the Annexes to this Directive. The Commission is committed to aligning without delay the limit values and dates in this Directive to future changes in Directive 97/68/EC. In every case where the European Parliament and the Council empower the Commission to implement the rules drawn up for agricultural or forestry tractors, a prior consultation procedure involving the Commission and the Member States meeting in committee should be introduced.
- (6) The requirements of this Directive supplement those of Directive 77/537/EEC, which is referred to in Item 2.8.1 of Annex II to Directive 74/150/EEC; Directive 74/150/EEC thus needs to be amended in order to add a new Item 2.8.2 in Annex II covering the topic dealt with by this Directive in conjunction with the reference SD (Specific Directive).
- (7) The objective of reducing the level of pollutant emissions from agricultural or forestry tractors and the smooth functioning of the internal market for such vehicles cannot be sufficiently achieved by individual Member States and can therefore be better achieved by the approximation of the laws of the Member States relating to measures to be taken against air pollution by such vehicles. The measures contained in this Directive do not go beyond what is necessary to achieve the objectives of the Treaty,

HAVE ADOPTED THIS DIRECTIVE:

#### *Article 1*

#### **Definitions**

For the purposes of this Directive:

- ‘agricultural or forestry tractor’ (hereinafter referred to as ‘tractor’) means any vehicle as defined in Article 1(1) of Directive 74/150/EEC,
- ‘engine’ means any internal combustion engine intended to power tractors as defined in Annex I,
- ‘type-approval of an engine type or family as a separate technical unit with respect to pollutant emissions’ means the instrument whereby a Member State certifies that an

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- engine type or family intended to power tractors meets the technical requirements of this Directive,
- ‘type-approval of a tractor type in respect of pollutant emissions’ means the instrument whereby a Member State certifies that a tractor type equipped with an engine meets the technical requirements of this Directive,
  - ‘family of engines’ means two or more types of engine that are similar in design and which, therefore, could display characteristics that are comparable in terms of pollutant emissions<sup>[F1]</sup>,
  - ‘<sup>[F2]</sup>replacement engine’ means a newly built engine which replaces an engine in a machine and which has been supplied for this purpose only<sup>[F3]</sup>,
  - <sup>[F4]</sup>‘flexibility scheme’ means the exemption procedure by means of which a Member State permits the placing on the market and entry into service of a limited number of tractors in accordance with the requirements laid down by Article 3a,
  - ‘engine category’ means the classification of engines which combines the power range with the stage of exhaust emission limits,
  - ‘making available on the market’ means any supply of a tractor or engine for distribution or use on the Union market in the course of a commercial activity, whether in return for payment or free of charge,
  - ‘placing on the market’ means the first making available on the market of a tractor or engine,
  - ‘entry into service’ means the first use, for its intended purpose, in the Union of a tractor or engine. The date on which it is registered, if applicable, or placed on the market shall be considered the date of entry into service.]

#### Textual Amendments

- F1** Substituted by [Commission Directive 2005/13/EC of 21 February 2005 amending Directive 2000/25/EC of the European Parliament and of the Council concerning the emission of gaseous and particulate pollutants by engines intended to power agricultural or forestry tractors, and amending Annex I to Directive 2003/37/EC of the European Parliament and of the Council concerning the type-approval of agricultural or forestry tractors \(Text with EEA relevance\).](#)
- F2** Inserted by [Commission Directive 2005/13/EC of 21 February 2005 amending Directive 2000/25/EC of the European Parliament and of the Council concerning the emission of gaseous and particulate pollutants by engines intended to power agricultural or forestry tractors, and amending Annex I to Directive 2003/37/EC of the European Parliament and of the Council concerning the type-approval of agricultural or forestry tractors \(Text with EEA relevance\).](#)
- F3** Substituted by [Directive 2011/72/EU of the European Parliament and of the Council of 14 September 2011 amending Directive 2000/25/EC as regards the provisions for tractors placed on the market under the flexibility scheme \(Text with EEA relevance\).](#)
- F4** Inserted by [Directive 2011/72/EU of the European Parliament and of the Council of 14 September 2011 amending Directive 2000/25/EC as regards the provisions for tractors placed on the market under the flexibility scheme \(Text with EEA relevance\).](#)

## Article 2

### Type-approval procedure

The procedure for granting type-approval for an engine type or family in respect of pollutant emissions, the procedure for granting type-approval for tractors with respect

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to pollutant emissions, and the conditions of the unrestricted placing on the market of such engines and tractors, are as laid down in Directive 74/150/EEC.

### Article 3

#### Obligations

1 Subject to Article 5, any engine type or family must meet the requirements of Annex I.

2 Any tractor type must meet the requirements of Annex II. In this respect type-approvals for engine type or families which have been approved in accordance with Annex I or the provisions mentioned in Annex III shall be recognised.

[<sup>F23</sup> Replacement engines shall comply with the limit values that the engine to be replaced had to meet when originally placed on the market.

The text ‘REPLACEMENT ENGINE’ shall be attached to a label on the engine or inserted into the owner’s manual.]

#### Textual Amendments

- F2** Inserted by [Commission Directive 2005/13/EC of 21 February 2005 amending Directive 2000/25/EC of the European Parliament and of the Council concerning the emission of gaseous and particulate pollutants by engines intended to power agricultural or forestry tractors, and amending Annex I to Directive 2003/37/EC of the European Parliament and of the Council concerning the type-approval of agricultural or forestry tractors \(Text with EEA relevance\).](#)

### [<sup>F3</sup> Article 3a

#### Flexibility scheme

By way of derogation from Article 3(1) and (2), Member States shall provide that, at the request of the tractor manufacturer, and on condition that the approval authority has granted the relevant permit for placing on the market in accordance with the procedures laid down in Annex IV, a limited number of tractors fitted with engines approved in accordance with the requirements of the emission limits stage immediately preceding the applicable one may enter into service.

The flexibility scheme shall begin when a given stage becomes applicable and shall have the same duration as the stage itself. The flexibility scheme set out in section 1.2 of Annex IV shall, however, be restricted to the duration of Stage III B or to three years where no subsequent stage exists.]

#### Textual Amendments

- F3** Substituted by [Directive 2011/72/EU of the European Parliament and of the Council of 14 September 2011 amending Directive 2000/25/EC as regards the provisions for tractors placed on the market under the flexibility scheme \(Text with EEA relevance\).](#)

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## Article 4

### Timetable

- 1 Member States may not after 30 September 2000:
- refuse to grant EC type-approval or national type-approval in respect of an engine type or family, or
  - prohibit the sale, entry into service or use of a new engine, or
  - refuse to grant EC type-approval or national type-approval of tractor types, or
  - prohibit the use, the sale, the initial entry into service of tractor types,
- on grounds relating to air pollution if the pollutants emitted by those engines or the engines fitted to those tractors meet the requirements of this Directive.
- 2 Member States may no longer grant EC type-approval or national type-approval for a type or family of engines or a tractor type where the pollutants emitted by the engine do not meet the requirements of this Directive:
- a in stage I
    - after 31 December 2000 for engines of categories B and C (power range as defined in Article 9(2) of Directive 97/68/EC);
  - b in stage II
    - after 31 December 2000 for engines of categories D and E (power range as defined in Article 9(3) of Directive 97/68/EC),
    - after 31 December 2001 for engines of category F (power range as defined in Article 9(3) of Directive 97/68/EC),
    - after 31 December 2002 for engines of category G (power range as defined in Article 9(3) of Directive 97/68/EC)<sup>[F1];</sup>
  - <sup>[F2]</sup>c in stage III A
    - after 31 December 2005 for engines of categories H, I and K (power range as defined in Article 9(3a) of Directive 97/68/EC),
    - after 31 December 2006 for engines of category J (power range as defined in Article 9(3a) of Directive 97/68/EC);
  - d in stage III B
    - after 31 December 2009 for engines of category L (power range as defined in Article 9(3c) of Directive 97/68/EC),
    - after 31 December 2010 for engines of categories M and N (power range as defined in Article 9(3c) of Directive 97/68/EC),
    - after 31 December 2011 for engines of category P (power range as defined in Article 9(3c) of Directive 97/68/EC);
  - e in stage IV
    - after 31 December 2012 for engines of category Q (power range as defined in Article 9(3d) of Directive 97/68/EC),
    - after 30 September 2013 for engines of category R (power range as defined in Article 9(3d) of Directive 97/68/EC).]
- 3 Member States shall prohibit the initial entry into service of engines and tractors where the pollutants emitted by the engines do not meet the requirements of the Directive:
- after 30 June 2001 for engines of categories A, B, and C,
  - after 31 December 2001 for engines of categories D and E,

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- after 31 December 2002 for engines of category F,
- after 31 December 2003 for engines of category G<sup>[F1]</sup>,
- <sup>[F2]</sup>after 31 December 2005 for engines of category H,
- after 31 December 2006 for engines of categories I,
- after 31 December 2006 for engines of categories K,
- after 31 December 2007 for engines of category J,
- after 31 December 2010 for engines of category L,
- after 31 December 2011 for engines of categories M
- after 31 December 2011 for engines of categories N,
- after 31 December 2012 for engines of category P,
- after 31 December 2013 for engines of category Q,
- after 30 September 2014 for engines of category R.]

However, for tractors fitted with category E or F engines, the above dates shall be postponed for six months.

4 The requirements of paragraph 3 do not apply to engines intended to be installed in tractor types for export to third countries and the replacement of engines for tractors in service.

<sup>[F15]</sup> For engines of categories A to G Member States may postpone the dates laid down in paragraph 3 for two years with respect to engines with a production date prior to the said date. They may grant other exceptions under the conditions laid down in Article 10 of Directive 97/68/EC.]

<sup>[F26]</sup> For engines of categories H to R, the dates laid down in paragraph 3 shall be postponed for two years with respect to engines with a production date prior to the said date.

7 For engine types or engine families meeting the limit values set out in the table in section 4.1.2.4, 4.1.2.5 and 4.1.2.6 of Annex I to Directive 97/68/EC before the dates laid down in paragraph 3 of this Article, Member States shall allow special labelling and marking to show that the equipment concerned meets the required limit values before the dates laid down.

8 In accordance with the procedure referred to in Article 20(2) of Directive 2003/37/EC, the Commission shall align the limit values and dates of stages IIIB and IV with the limit values and dates decided following the revision procedure provided for in Article 2(b) of Directive 2004/26/EC, with a view to the needs of agricultural or forestry tractors and, in particular, tractors of categories T2, T4.1 and C2.]

#### Textual Amendments

- F1** Substituted by [Commission Directive 2005/13/EC of 21 February 2005 amending Directive 2000/25/EC of the European Parliament and of the Council concerning the emission of gaseous and particulate pollutants by engines intended to power agricultural or forestry tractors, and amending Annex I to Directive 2003/37/EC of the European Parliament and of the Council concerning the type-approval of agricultural or forestry tractors \(Text with EEA relevance\).](#)
- F2** Inserted by [Commission Directive 2005/13/EC of 21 February 2005 amending Directive 2000/25/EC of the European Parliament and of the Council concerning the emission of gaseous and particulate pollutants by engines intended to power agricultural or forestry tractors, and amending Annex I to Directive 2003/37/EC of the European Parliament and of the Council concerning the type-approval of agricultural or forestry tractors \(Text with EEA relevance\).](#)

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#### *Article 5*

### **Recognition of equivalence and conformity**

The authorities of Member States granting EC type-approval for a type or family of engines shall recognise the type-approvals granted in accordance with the provisions of Annex III and the corresponding type-approval marks as being in conformity with this Directive.

#### *Article 6*

### **Further reduction in emission limit values**

As soon as the provisions referred to in Article 19 of Directive 97/68/EC are adopted by the European Parliament and the Council, the Commission shall, in accordance with the procedure laid down in Article 13 of Directive 74/150/EEC, without delay align the limit values and dates contained in this Directive with those adopted following the decisions taken pursuant to the abovementioned Article 19.

#### *Article 7*

### **Technical adaptations**

Any amendments needed in order to adapt the requirements of the Annexes to technical progress shall be adopted in accordance with the procedure laid down in Article 13 of Directive 74/150/EEC.

#### *Article 8*

### **Amendment of Directive 74/150/EEC**

In Annex II to Directive 74/150/EEC the following item 2.8.2 shall be inserted: '2.8.2. Emission of gaseous and particulate pollutants by engines: SD'.

#### *Article 9*

### **Transposition into national law**

Member States shall bring into force the laws, regulations and administrative provisions necessary to comply with this Directive before 29 September 2000. They shall forthwith inform the Commission thereof.

They shall apply these provisions from 31 December 2000.

When Member States adopt these measures, they shall contain a reference to this Directive, or be accompanied by such a reference on the occasion of their official publication. The methods of making such a reference shall be laid down by the Member States.

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#### *Article 10*

#### **Entry into force**

This Directive shall enter into force on the day of its publication in the *Official Journal of the European Communities*.

#### *Article 11*

#### **Addressees**

This Directive is addressed to the Member States.



## ANNEX I

### REQUIREMENTS FOR EC TYPE-APPROVAL OF A TYPE OF ENGINE OR ENGINE FAMILY FOR A TRACTOR AS A SEPARATE TECHNICAL UNIT IN TERMS OF THE POLLUTANTS EMITTED

#### 0. GENERAL

Unless otherwise defined by this Directive, the appropriate definitions, symbols and abbreviations contained in Directive 97/68/EC are applicable.

#### 1. DEFINITIONS

- ‘type of tractor engine in terms of pollutants emitted’ means compression-ignition engines which display no essential differences with regard to the characteristics defined in Appendix 1 to Annex I,
- ‘pollutants emitted’ means gaseous pollutants (carbon monoxide, hydrocarbons, and nitrogen oxides) and polluting particulates.

#### 2. APPLICATION FOR EC TYPE-APPROVAL FOR A TYPE OF ENGINE OR ENGINE FAMILY AS A SEPARATE TECHNICAL UNIT

- 2.1. The application for the type-approval of an engine type or family in terms of the pollutants emitted shall be made by the engine manufacturer or his agent.
- 2.2. It shall be accompanied by the information document, completed in triplicate, a specimen for which is provided in Appendix 1 to this Annex.
- 2.3. An engine conforming to the ‘engine type’ or ‘parent engine’ characteristics described in Appendix 1 to this Annex shall be submitted to the technical service responsible for conducting the approval tests.
- 2.4. In the case of an applicant for type-approval of an engine family, if the approval authority determines that, with regard to the selected parent engine, the submitted application does not fully represent the engine family described in Annex II, Appendix 2, to Directive 97/68/EC an alternative and, if necessary an additional parent engine which is determined by the approval authority shall be provided for approval according to Article 3(1) of Directive 97/68/EC.

#### 3. SPECIFICATIONS AND TESTS

The provisions of Directive 97/68/EC, Annex I, Section 4 and Annexes III, IV and V are applicable.

#### 4. TYPE-APPROVAL FOR A SEPARATE TECHNICAL UNIT

An EC type-approval certificate conforming to the specimen provided in Appendix 2 to this Annex shall be issued.

#### 5. ENGINE MARKING

The engine shall be marked in accordance with the requirements of Appendix 3 to this Annex. The identification number must comply with the provisions of Appendices 4 and 5 to this Annex.

#### 6. CONFORMITY OF PRODUCTION

Without prejudice to the requirements of Article 8 of Directive 74/150/EEC, conformity of production shall be checked in accordance with the provisions of Section 5 of Annex I to Directive 97/68/EC.

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## 7. NOTIFICATION ON THE ISSUE OF APPROVALS

Notice of the approval, extension, refusal or withdrawal of approval or of production definitely discontinued in relation to an engine type pursuant to Annex I or a tractor type pursuant to Annex II must be communicated to the Member States in accordance with Article 5(1) of Directive 74/150/EEC.

## 8. ENGINE FAMILY

### 8.1. Parameters defining the engine family

The engine family may be defined by basic design parameters which must be common to all engines within the family. In some cases there may be interaction of parameters. These effects must also be taken into consideration in order to ensure that only engines with similar exhaust-emission characteristics are included within an engine family.

For engines to be considered to belong to the same engine family, the following list of basic parameters must be common.

- 8.1.1. Combustion cycle: 2 stroke/4 stroke<sup>(8)</sup>
- 8.1.2. Cooling medium: air/water/oil<sup>(8)</sup>
- 8.1.3. Individual cylinder displacement
  - engines to be within a total spread of 15 %
  - number of cylinders for engines with after-treatment device
- 8.1.4. Method of air aspiration: naturally aspirated/pressure charged<sup>(8)</sup>
- 8.1.5. Combustion chamber type/design
  - pre-chamber
  - swirl chamber
  - open chamber
- 8.1.6. Valve and porting — configuration, size and number
  - cylinder head
  - cylinder wall
  - crankcase
- 8.1.7. Fuel system
  - pump-line-injector
  - in-line pump
  - distributor pump
  - single element
  - unit injector
- 8.1.8. Exhaust gas recirculation
- 8.1.9. Water injection/emulsion<sup>(8)</sup>
- 8.1.10. Air injection
- 8.1.11. Charge cooling system
- 8.1.12. Oxidation catalyst

8.1.13. Reduction catalyst

8.1.14. Thermal reactor

8.1.15. Particulates trap

8.2. Choice of parent engine

8.2.1. The parent engine of the family shall be selected using the primary criterion of the highest fuel delivery per stroke at the declared maximum torque speed. If two or more engines share this primary criterion, the parent engine shall be selected using the secondary criterion of highest fuel delivery per stroke at rated speed. Under certain circumstances, the approval authority may conclude that the worst-case emission rate of the family can best be characterised by testing a second engine. Thus, the approval authority may select an additional engine for tests based on features which indicate that it may have the highest emission levels of the engines within that family.

8.2.2. If engines within the family incorporate other variable features which could be considered to affect exhaust emissions, these features must also be identified and taken into account in the selection of the parent engine.

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## [<sup>F1</sup>Appendix 1]

- 4.1.15.5. Lubricant temperature: minimum: ..... K            maximum: ..... K
- 4.1.16. Pressure charger: yes/no (<sup>1</sup>)
- 4.1.16.1. Make: .....
- 4.1.16.2. Type: .....
- 4.1.16.3. Description of the system (e.g. maximum charge pressure, waste-gate, if applicable): .....
- 4.1.16.4. Intercooler: yes/no (<sup>1</sup>)
- 4.1.17. Intake system: maximum allowable intake depression at rated engine speed and at 100 % load: ..... kPa
- 4.1.18. Exhaust system: maximum permissible exhaust back pressure at rated engine speed and at 100 % load: ..... kPa
- 4.2. Additional anti-pollution devices (if any, and if not covered by another heading)
- Description and/or (<sup>1</sup>) diagram(s): .....
- 4.3. Fuel feed
- 4.3.1. Feed pump
- Pressure (<sup>2</sup>) or characteristic diagram: ..... kPa
- 4.3.2. Injection system
- 4.3.2.1. Pump
- 4.3.2.1.1. Make(s): .....
- 4.3.2.1.2. Type(s): .....
- 4.3.2.1.3. Delivery: ..... mm<sup>3</sup> (<sup>2</sup>) per stroke or cycle at pump speed of: ..... r/min (rated) and ..... r/min (maximum torque) respectively, or characteristic diagram
- State which method used: on engine/on pump bench (<sup>1</sup>)
- 4.3.2.1.4. Injection advance
- 4.3.2.1.4.1. Injection advance curve (<sup>2</sup>): .....
- 4.3.2.1.4.2. Timing (<sup>2</sup>): .....
- 4.3.2.2. Injection piping
- 4.3.2.2.1. Length: ..... mm
- 4.3.2.2.2. Internal diameter: ..... mm
- 4.3.2.3. Injector(s)
- 4.3.2.3.1. Make(s): .....
- 4.3.2.3.2. Type(s): .....
- 4.3.2.3.3. Opening pressure (<sup>2</sup>) or characteristic diagram (<sup>1</sup>): .....

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- 4.1.15.5. Lubricant temperature: minimum: ..... K      maximum: ..... K
- 4.1.16. Pressure charger: yes/no <sup>(1)</sup>
- 4.1.16.1. Make: .....
- 4.1.16.2. Type: .....
- 4.1.16.3. Description of the system (e.g. maximum charge pressure, waste-gate, if applicable): .....
- 4.1.16.4. Intercooler: yes/no <sup>(1)</sup>
- 4.1.17. Intake system: maximum allowable intake depression at rated engine speed and at 100 % load: ..... kPa
- 4.1.18. Exhaust system: maximum permissible exhaust back pressure at rated engine speed and at 100 % load: ..... kPa
- 4.2. Additional anti-pollution devices (if any, and if not covered by another heading)
- Description and/or <sup>(1)</sup> diagram(s): .....
- 4.3. Fuel feed
- 4.3.1. Feed pump
- Pressure <sup>(2)</sup> or characteristic diagram: ..... kPa
- 4.3.2. Injection system
- 4.3.2.1. Pump
- 4.3.2.1.1. Make(s): .....
- 4.3.2.1.2. Type(s): .....
- 4.3.2.1.3. Delivery: ..... mm<sup>3</sup> <sup>(2)</sup> per stroke or cycle at pump speed of: ..... r/min (rated) and ..... r/min (maximum torque) respectively, or characteristic diagram
- State which method used: on engine/on pump bench <sup>(1)</sup>
- 4.3.2.1.4. Injection advance
- 4.3.2.1.4.1. Injection advance curve <sup>(2)</sup>: .....
- 4.3.2.1.4.2. Timing <sup>(2)</sup>: .....
- 4.3.2.2. Injection piping
- 4.3.2.2.1. Length: ..... mm
- 4.3.2.2.2. Internal diameter: ..... mm
- 4.3.2.3. Injector(s)
- 4.3.2.3.1. Make(s): .....
- 4.3.2.3.2. Type(s): .....
- 4.3.2.3.3. Opening pressure <sup>(2)</sup> or characteristic diagram <sup>(1)</sup>: .....
- 4.3.2.4. Governor(s)

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- 4.1.15.5. Lubricant temperature: minimum: ..... K      maximum: ..... K
- 4.1.16. Pressure charger: yes/no <sup>(1)</sup>
- 4.1.16.1. Make: .....
- 4.1.16.2. Type: .....
- 4.1.16.3. Description of the system (e.g. maximum charge pressure, waste-gate, if applicable): .....
- 4.1.16.4. Intercooler: yes/no <sup>(1)</sup>
- 4.1.17. Intake system: maximum allowable intake depression at rated engine speed and at 100 % load: ..... kPa
- 4.1.18. Exhaust system: maximum permissible exhaust back pressure at rated engine speed and at 100 % load: ..... kPa
- 4.2. Additional anti-pollution devices (if any, and if not covered by another heading)
- Description and/or <sup>(1)</sup> diagram(s): .....
- 4.3. Fuel feed
- 4.3.1. Feed pump
- Pressure <sup>(2)</sup> or characteristic diagram: ..... kPa
- 4.3.2. Injection system
- 4.3.2.1. Pump
- 4.3.2.1.1. Make(s): .....
- 4.3.2.1.2. Type(s): .....
- 4.3.2.1.3. Delivery: ..... mm<sup>3</sup> <sup>(2)</sup> per stroke or cycle at pump speed of: ..... r/min (rated) and ..... r/min (maximum torque) respectively, or characteristic diagram
- State which method used: on engine/on pump bench <sup>(1)</sup>
- 4.3.2.1.4. Injection advance
- 4.3.2.1.4.1. Injection advance curve <sup>(2)</sup>: .....
- 4.3.2.1.4.2. Timing <sup>(2)</sup>: .....
- 4.3.2.2. Injection piping
- 4.3.2.2.1. Length: ..... mm
- 4.3.2.2.2. Internal diameter: ..... mm
- 4.3.2.3. Injector(s)
- 4.3.2.3.1. Make(s): .....
- 4.3.2.3.2. Type(s): .....
- 4.3.2.3.3. Opening pressure <sup>(2)</sup> or characteristic diagram <sup>(1)</sup>: .....
- 4.3.2.4. Governor(s)

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- 4.1.15.5. Lubricant temperature: minimum: ..... K      maximum: ..... K
- 4.1.16. Pressure charger: yes/no <sup>(1)</sup>
- 4.1.16.1. Make: .....
- 4.1.16.2. Type: .....
- 4.1.16.3. Description of the system (e.g. maximum charge pressure, waste-gate, if applicable): .....
- 4.1.16.4. Intercooler: yes/no <sup>(1)</sup>
- 4.1.17. Intake system: maximum allowable intake depression at rated engine speed and at 100 % load: ..... kPa
- 4.1.18. Exhaust system: maximum permissible exhaust back pressure at rated engine speed and at 100 % load: ..... kPa
- 4.2. Additional anti-pollution devices (if any, and if not covered by another heading)
- Description and/or <sup>(1)</sup> diagram(s): .....
- 4.3. Fuel feed
- 4.3.1. Feed pump
- Pressure <sup>(2)</sup> or characteristic diagram: ..... kPa
- 4.3.2. Injection system
- 4.3.2.1. Pump
- 4.3.2.1.1. Make(s): .....
- 4.3.2.1.2. Type(s): .....
- 4.3.2.1.3. Delivery: ..... mm<sup>3</sup> <sup>(2)</sup> per stroke or cycle at pump speed of: ..... r/min (rated) and ..... r/min (maximum torque) respectively, or characteristic diagram
- State which method used: on engine/on pump bench <sup>(1)</sup>
- 4.3.2.1.4. Injection advance
- 4.3.2.1.4.1. Injection advance curve <sup>(2)</sup>: .....
- 4.3.2.1.4.2. Timing <sup>(2)</sup>: .....
- 4.3.2.2. Injection piping
- 4.3.2.2.1. Length: ..... mm
- 4.3.2.2.2. Internal diameter: ..... mm
- 4.3.2.3. Injector(s)
- 4.3.2.3.1. Make(s): .....
- 4.3.2.3.2. Type(s): .....
- 4.3.2.3.3. Opening pressure <sup>(2)</sup> or characteristic diagram <sup>(1)</sup>: .....
- 4.3.2.4. Governor(s)

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- 4.1.15.5. Lubricant temperature: minimum: ..... K      maximum: ..... K
- 4.1.16. Pressure charger: yes/no <sup>(1)</sup>
- 4.1.16.1. Make: .....
- 4.1.16.2. Type: .....
- 4.1.16.3. Description of the system (e.g. maximum charge pressure, waste-gate, if applicable): .....
- 4.1.16.4. Intercooler: yes/no <sup>(1)</sup>
- 4.1.17. Intake system: maximum allowable intake depression at rated engine speed and at 100 % load: ..... kPa
- 4.1.18. Exhaust system: maximum permissible exhaust back pressure at rated engine speed and at 100 % load: ..... kPa
- 4.2. Additional anti-pollution devices (if any, and if not covered by another heading)
- Description and/or <sup>(1)</sup> diagram(s): .....
- 4.3. Fuel feed
- 4.3.1. Feed pump
- Pressure <sup>(2)</sup> or characteristic diagram: ..... kPa
- 4.3.2. Injection system
- 4.3.2.1. Pump
- 4.3.2.1.1. Make(s): .....
- 4.3.2.1.2. Type(s): .....
- 4.3.2.1.3. Delivery: ..... mm<sup>3</sup> <sup>(2)</sup> per stroke or cycle at pump speed of: ..... r/min (rated) and ..... r/min (maximum torque) respectively, or characteristic diagram
- State which method used: on engine/on pump bench <sup>(1)</sup>
- 4.3.2.1.4. Injection advance
- 4.3.2.1.4.1. Injection advance curve <sup>(2)</sup>: .....
- 4.3.2.1.4.2. Timing <sup>(2)</sup>: .....
- 4.3.2.2. Injection piping
- 4.3.2.2.1. Length: ..... mm
- 4.3.2.2.2. Internal diameter: ..... mm
- 4.3.2.3. Injector(s)
- 4.3.2.3.1. Make(s): .....
- 4.3.2.3.2. Type(s): .....
- 4.3.2.3.3. Opening pressure <sup>(2)</sup> or characteristic diagram <sup>(1)</sup>: .....
- 4.3.2.4. Governor(s)



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- 4.1.15.5. Lubricant temperature: minimum: ..... K      maximum: ..... K
- 4.1.16. Pressure charger: yes/no <sup>(1)</sup>
- 4.1.16.1. Make: .....
- 4.1.16.2. Type: .....
- 4.1.16.3. Description of the system (e.g. maximum charge pressure, waste-gate, if applicable): .....
- 4.1.16.4. Intercooler: yes/no <sup>(1)</sup>
- 4.1.17. Intake system: maximum allowable intake depression at rated engine speed and at 100 % load: ..... kPa
- 4.1.18. Exhaust system: maximum permissible exhaust back pressure at rated engine speed and at 100 % load: ..... kPa
- 4.2. Additional anti-pollution devices (if any, and if not covered by another heading)
- Description and/or <sup>(1)</sup> diagram(s): .....
- 4.3. Fuel feed
- 4.3.1. Feed pump
- Pressure <sup>(2)</sup> or characteristic diagram: ..... kPa
- 4.3.2. Injection system
- 4.3.2.1. Pump
- 4.3.2.1.1. Make(s): .....
- 4.3.2.1.2. Type(s): .....
- 4.3.2.1.3. Delivery: ..... mm<sup>3</sup> <sup>(2)</sup> per stroke or cycle at pump speed of: ..... r/min (rated) and ..... r/min (maximum torque) respectively, or characteristic diagram
- State which method used: on engine/on pump bench <sup>(1)</sup>
- 4.3.2.1.4. Injection advance
- 4.3.2.1.4.1. Injection advance curve <sup>(2)</sup>: .....
- 4.3.2.1.4.2. Timing <sup>(2)</sup>: .....
- 4.3.2.2. Injection piping
- 4.3.2.2.1. Length: ..... mm
- 4.3.2.2.2. Internal diameter: ..... mm
- 4.3.2.3. Injector(s)
- 4.3.2.3.1. Make(s): .....
- 4.3.2.3.2. Type(s): .....
- 4.3.2.3.3. Opening pressure <sup>(2)</sup> or characteristic diagram <sup>(1)</sup>: .....
- 4.3.2.4. Governor(s)

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- 4.1.15.5. Lubricant temperature: minimum: ..... K      maximum: ..... K
- 4.1.16. Pressure charger: yes/no <sup>(1)</sup>
- 4.1.16.1. Make: .....
- 4.1.16.2. Type: .....
- 4.1.16.3. Description of the system (e.g. maximum charge pressure, waste-gate, if applicable): .....
- 4.1.16.4. Intercooler: yes/no <sup>(1)</sup>
- 4.1.17. Intake system: maximum allowable intake depression at rated engine speed and at 100 % load: ..... kPa
- 4.1.18. Exhaust system: maximum permissible exhaust back pressure at rated engine speed and at 100 % load: ..... kPa
- 4.2. Additional anti-pollution devices (if any, and if not covered by another heading)
- Description and/or <sup>(1)</sup> diagram(s): .....
- 4.3. Fuel feed
- 4.3.1. Feed pump
- Pressure <sup>(2)</sup> or characteristic diagram: ..... kPa
- 4.3.2. Injection system
- 4.3.2.1. Pump
- 4.3.2.1.1. Make(s): .....
- 4.3.2.1.2. Type(s): .....
- 4.3.2.1.3. Delivery: ..... mm<sup>3</sup> <sup>(2)</sup> per stroke or cycle at pump speed of: ..... r/min (rated) and ..... r/min (maximum torque) respectively, or characteristic diagram
- State which method used: on engine/on pump bench <sup>(1)</sup>
- 4.3.2.1.4. Injection advance
- 4.3.2.1.4.1. Injection advance curve <sup>(2)</sup>: .....
- 4.3.2.1.4.2. Timing <sup>(2)</sup>: .....
- 4.3.2.2. Injection piping
- 4.3.2.2.1. Length: ..... mm
- 4.3.2.2.2. Internal diameter: ..... mm
- 4.3.2.3. Injector(s)
- 4.3.2.3.1. Make(s): .....
- 4.3.2.3.2. Type(s): .....
- 4.3.2.3.3. Opening pressure <sup>(2)</sup> or characteristic diagram <sup>(1)</sup>: .....
- 4.3.2.4. Governor(s)

## Appendix 2

### SPECIMEN

(Maximum format A4 (210 x 297 mm))

- 4.1.15.5. Lubricant temperature: minimum: ..... K      maximum: ..... K
- 4.1.16. Pressure charger: yes/no <sup>(1)</sup>
- 4.1.16.1. Make: .....
- 4.1.16.2. Type: .....
- 4.1.16.3. Description of the system (e.g. maximum charge pressure, waste-gate, if applicable): .....
- 4.1.16.4. Intercooler: yes/no <sup>(1)</sup>
- 4.1.17. Intake system: maximum allowable intake depression at rated engine speed and at 100 % load: ..... kPa
- 4.1.18. Exhaust system: maximum permissible exhaust back pressure at rated engine speed and at 100 % load: ..... kPa
- 4.2. Additional anti-pollution devices (if any, and if not covered by another heading)
- Description and/or <sup>(1)</sup> diagram(s): .....
- 4.3. Fuel feed
- 4.3.1. Feed pump
- Pressure <sup>(2)</sup> or characteristic diagram: ..... kPa
- 4.3.2. Injection system
- 4.3.2.1. Pump
- 4.3.2.1.1. Make(s): .....
- 4.3.2.1.2. Type(s): .....
- 4.3.2.1.3. Delivery: ..... mm<sup>3</sup> <sup>(2)</sup> per stroke or cycle at pump speed of: ..... r/min (rated) and ..... r/min (maximum torque) respectively, or characteristic diagram
- State which method used: on engine/on pump bench <sup>(1)</sup>
- 4.3.2.1.4. Injection advance
- 4.3.2.1.4.1. Injection advance curve <sup>(2)</sup>: .....
- 4.3.2.1.4.2. Timing <sup>(2)</sup>: .....
- 4.3.2.2. Injection piping
- 4.3.2.2.1. Length: ..... mm
- 4.3.2.2.2. Internal diameter: ..... mm
- 4.3.2.3. Injector(s)

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- 4.1.15.5. Lubricant temperature: minimum: ..... K      maximum: ..... K
- 4.1.16. Pressure charger: yes/no <sup>(1)</sup>
- 4.1.16.1. Make: .....
- 4.1.16.2. Type: .....
- 4.1.16.3. Description of the system (e.g. maximum charge pressure, waste-gate, if applicable): .....
- 4.1.16.4. Intercooler: yes/no <sup>(1)</sup>
- 4.1.17. Intake system: maximum allowable intake depression at rated engine speed and at 100 % load: ..... kPa
- 4.1.18. Exhaust system: maximum permissible exhaust back pressure at rated engine speed and at 100 % load: ..... kPa
- 4.2. Additional anti-pollution devices (if any, and if not covered by another heading)
- Description and/or <sup>(1)</sup> diagram(s): .....
- 4.3. Fuel feed
- 4.3.1. Feed pump
- Pressure <sup>(2)</sup> or characteristic diagram: ..... kPa
- 4.3.2. Injection system
- 4.3.2.1. Pump
- 4.3.2.1.1. Make(s): .....
- 4.3.2.1.2. Type(s): .....
- 4.3.2.1.3. Delivery: ..... mm<sup>3</sup> <sup>(2)</sup> per stroke or cycle at pump speed of: ..... r/min (rated) and ..... r/min (maximum torque) respectively, or characteristic diagram
- State which method used: on engine/on pump bench <sup>(1)</sup>
- 4.3.2.1.4. Injection advance
- 4.3.2.1.4.1. Injection advance curve <sup>(2)</sup>: .....
- 4.3.2.1.4.2. Timing <sup>(2)</sup>: .....
- 4.3.2.2. Injection piping
- 4.3.2.2.1. Length: ..... mm
- 4.3.2.2.2. Internal diameter: ..... mm
- 4.3.2.3. Injector(s)
- 4.3.2.3.1. Make(s): .....
- 4.3.2.3.2. Type(s): .....
- 4.3.2.3.3. Opening pressure <sup>(2)</sup> or characteristic diagram <sup>(1)</sup>: .....
- 4.3.2.4. Governor(s)

## Appendix 3

### Marking of engines

1. Any engine approved as a separate technical unit must bear:
  - 1.1. the trade mark or trade name of the engine's manufacturer;
  - 1.2. the engine type, and if applicable engine family, and a unique engine identification number;
  - 1.3. the EC type-approval mark in accordance with Appendix 5 of this Annex.
2. These marks must last throughout the useful life of the engine and remain clearly legible and indelible. If labels or plates are used, they must be affixed in such a way that they too last throughout the useful life of the engine, and the labels/plates cannot be removed without destroying or defacing them.
3. The marks must be secured to an engine part that is necessary for normal engine operation and not normally requiring replacement during engine life.

These marks must be located so as to be readily visible to the average person once the engine has been fitted to the tractor, together with all the accessories needed for engine operation. If a bonnet is to be removed in order to make the mark visible, this requirement shall be considered to have been met if removal of that bonnet is simple and does not require the use of a tool.

In case of doubt concerning the meeting of this requirement, it shall be considered to have been met if an additional mark containing at least the engine identification number and the name, trade name or logo of the manufacturer has been added.

That additional mark shall be affixed to, or next to, a major component that would not normally have to be replaced during the service life of the engine, and be easily accessible, without the assistance of tools, during routine maintenance operations; otherwise, it must be located at a distance from the original mark on the engine crankcase. The original mark and, where appropriate, the additional mark shall both be clearly visible once all of the accessories needed for the operation of the engine have been fitted. A bonnet meeting the requirements set out in the above paragraph shall be authorised. The additional mark shall be affixed in a durable manner preferably directly to the topside of the engine, for example by means of an engraving, or a sticker or plate that meets the requirements of Item 2.

4. The engines must be classified by means of their identification numbers in such a way that the production sequence can be determined unambiguously.
5. Before leaving the production line, the engines must bear all of the required marks.
6. The exact location of the engine marks shall be declared in the information document, in accordance with Annexes I and II.

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## Appendix 4

### Numbering

1. The EC type-approval number shall consist of five sections, separated by the sign ‘\*’:

Section 1	<p>A lower-case letter ‘e’ followed by the distinguishing number of the Member State which has granted the type-approval:</p> <ul style="list-style-type: none"> <li>‘1’ for Germany</li> <li>‘2’ for France</li> <li>‘3’ for Italy</li> <li>‘4’ for the Netherlands</li> <li>‘5’ for Sweden</li> <li>‘6’ for Belgium</li> <li>[<sup>F5</sup>‘7’ for Hungary</li> <li>‘8’ for the Czech Republic]</li> <li>‘9’ for Spain</li> <li>‘11’ for the United Kingdom</li> <li>‘12’ for Austria</li> <li>‘13’ for Luxembourg</li> <li>‘17’ for Finland</li> <li>‘18’ for Denmark</li> <li>[<sup>F6</sup>19 for Romania]</li> <li>[<sup>F5</sup>‘20’ for Poland]</li> <li>‘21’ for Portugal</li> <li>‘23’ for Greece</li> <li>‘24’ for Ireland</li> <li>[<sup>F5</sup>‘26’ for Slovenia</li> <li>‘27’ for Slovakia</li> <li>‘29’ for Estonia</li> <li>‘32’ for Latvia</li> <li>[<sup>F6</sup>34 for Bulgaria]</li> <li>‘36’ for Lithuania</li> <li>‘CY’ for Cyprus</li> <li>‘MT’ for Malta]</li> </ul>
[ <sup>F7</sup> Section 2	<p>The number of the base Directive followed by a letter A for stage I, letter B for stage II, letter C for stage IIIA, letter D for stage IIIB and letter E for stage IV]</p>
Section 3	<p>The number of the latest amending Directive applicable to the approval. If a Directive contains different implementation dates referring to different technical standards, an alphabetical character shall be added in order to specify the standard in accordance with which the approval was granted</p>
Section 4	<p>A four-digit sequential number (with leading zeros as applicable) to denote the base</p>

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	approval number. The sequence shall start from 0001 for each base Directive
Section 5	A two-digit sequential number (with leading zeros as applicable) to denote the extension. The sequence shall start from 00 for each approval number

#### Textual Amendments

- F5** Inserted by Act concerning the conditions of accession of the Czech Republic, the Republic of Estonia, the Republic of Cyprus, the Republic of Latvia, the Republic of Lithuania, the Republic of Hungary, the Republic of Malta, the Republic of Poland, the Republic of Slovenia and the Slovak Republic and the adjustments to the Treaties on which the European Union is founded.
- F6** Inserted by Council Directive 2006/96/EC of 20 November 2006 adapting certain Directives in the field of free movement of goods, by reason of the accession of Bulgaria and Romania.
- F7** Substituted by Commission Directive 2010/22/EU of 15 March 2010 amending, for the purposes of their adaptation to technical progress, Council Directives 80/720/EEC, 86/298/EEC, 86/415/EEC and 87/402/EEC and Directives 2000/25/EC and 2003/37/EC of the European Parliament and of the Council relating to the type-approval of agricultural or forestry tractors (Text with EEA relevance).

- Example of the third approval by France according to this Directive meeting the requirements of stage I of this Directive:  
e2\*NN/NN<sup>(9)</sup> A\*00/00\*0003\*00
- Example of the second extension to the fourth approval issued by the United Kingdom according to this Directive meeting the requirements of stage II of this Directive:  
e11\*NN/NN<sup>(9)</sup> B\*00/00\*0004\*02

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## Appendix 5

### EC type-approval mark

1. The EC type-approval mark will consist of a rectangle surrounding the lower case letter 'e' followed by the distinguishing number or letters of Sections 2 to 5 of the EC type-approval number.
2. Example of the EC type-approval mark:



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- 4.1.15.5. Lubricant temperature: minimum: ..... K      maximum: ..... K
- 4.1.16. Pressure charger: yes/no <sup>(1)</sup>
- 4.1.16.1. Make: .....
- 4.1.16.2. Type: .....
- 4.1.16.3. Description of the system (e.g. maximum charge pressure, waste-gate, if applicable): .....
- 4.1.16.4. Intercooler: yes/no <sup>(1)</sup>
- 4.1.17. Intake system: maximum allowable intake depression at rated engine speed and at 100 % load: ..... kPa
- 4.1.18. Exhaust system: maximum permissible exhaust back pressure at rated engine speed and at 100 % load: ..... kPa
- 4.2. Additional anti-pollution devices (if any, and if not covered by another heading)
- Description and/or <sup>(1)</sup> diagram(s): .....
- 4.3. Fuel feed
- 4.3.1. Feed pump
- Pressure <sup>(2)</sup> or characteristic diagram: ..... kPa
- 4.3.2. Injection system
- 4.3.2.1. Pump
- 4.3.2.1.1. Make(s): .....
- 4.3.2.1.2. Type(s): .....
- 4.3.2.1.3. Delivery: ..... mm<sup>3</sup> <sup>(2)</sup> per stroke or cycle at pump speed of: ..... r/min (rated) and ..... r/min (maximum torque) respectively, or characteristic diagram
- State which method used: on engine/on pump bench <sup>(1)</sup>
- 4.3.2.1.4. Injection advance
- 4.3.2.1.4.1. Injection advance curve <sup>(2)</sup>: .....
- 4.3.2.1.4.2. Timing <sup>(2)</sup>: .....
- 4.3.2.2. Injection piping
- 4.3.2.2.1. Length: ..... mm
- 4.3.2.2.2. Internal diameter: ..... mm
- 4.3.2.3. Injector(s)
- 4.3.2.3.1. Make(s): .....
- 4.3.2.3.2. Type(s): .....
- 4.3.2.3.3. Opening pressure <sup>(2)</sup> or characteristic diagram <sup>(1)</sup>: .....
- 4.3.2.4. Governor(s)

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## ANNEX II

### REQUIREMENTS FOR THE EC TYPE-APPROVAL OF A TRACTOR TYPE EQUIPPED WITH A COMPRESSION-IGNITION ENGINE IN RESPECT OF THE POLLUTANTS EMITTED

#### 0. GENERAL

Unless otherwise defined by this Directive, the appropriate definitions, symbols and abbreviations contained in Directive 97/68/EC are applicable.

#### 1. DEFINITIONS

- ‘Type of tractor in terms of the pollutants emitted’ means tractors which display no essential differences with regard to the characteristics as defined in Appendix 1 to this Annex,
- ‘Pollutants emitted’ means gaseous pollutants (carbon monoxide, hydrocarbons, and nitrogen oxides) and polluting particulates.

#### 2. APPLICATION FOR EC TYPE-APPROVAL FOR A TRACTOR TYPE

##### 2.1. Application for the EC type-approval of a tractor type in respect of its engine

2.1.1. The application for type-approval of a tractor type in terms of the pollutants emitted shall be made by the tractor manufacturer or his agent.

2.1.2. It shall be accompanied by the information document, completed in triplicate, a specimen for which is provided in Appendix 1 to this Annex.

2.1.3. The tractor engine conforming to the ‘engine type’ or ‘parent engine’ characteristics described in Appendix 1 to this Annex shall be submitted to the technical service responsible for conducting the approval tests.

##### 2.2. Application for the EC type-approval of a tractor type with an approved engine

2.2.1. The application for type-approval of a tractor type in terms of the pollutants emitted shall be made by the tractor manufacturer or his agent.

2.2.2. It shall be accompanied by the information document, completed in triplicate, a specimen for which is provided in Appendix 1 to this Annex and a copy of the EC type-approval certificate for the engine or engine family, if applicable, for the separate technical unit which is installed in the tractor type.

#### 3. SPECIFICATIONS AND TESTS

##### 3.1. General

The provisions of Directive 97/68/EC, Annex I, Section 4, Annexes III, IV and V are applicable.

##### 3.2. Engine installation on the vehicle

The engine installation on the vehicle shall comply with the following characteristics in respect to the type-approval of the engine:

3.2.1. intake depression shall not exceed that specified for the type-approved engine,

3.2.2. exhaust back pressure shall not exceed that specified for the type-approved engine.

3.3. Those tractor components which may affect the pollutants emitted shall be designed, built and assembled in such a way as to meet the technical requirements of this

Directive under the tractor's normal operating conditions and despite any vibrations to which it could be subjected.

#### 4. APPROVAL

Any tractor type fitted with an engine which has been issued with a certificate of approval in accordance with Annex I or the provisions mentioned in Annex III shall be issued with a type-approval certificate in accordance with Appendix 2 to this Annex.

#### 5. ENGINE MARKING

The engine shall be marked in accordance with the requirements of Appendix 3 to Annex I. The EC type-approval identification number must meet the requirements of Appendices 4 and 5 to Annex I.

#### 6. CONFORMITY OF PRODUCTION

Without prejudice to the requirements of Article 8 of Directive 74/150/EEC, conformity of production shall be checked in accordance with the provisions of Section 5 of Annex I to Directive 97/68/EC.

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## Appendix 1

### Information document

Concerning the EC type-approval of a type of tractor equipped with a compression-ignition engine in terms of the pollutants emitted

The information set out below shall be supplied in triplicate and be accompanied by a list of enclosures. Any drawings needed shall be supplied to an appropriate scale and with sufficient details in A4 format or in a folder of this format. Photographs shall, where needed, show sufficient detail

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- 4.1.15.5. Lubricant temperature: minimum: ..... K      maximum: ..... K
- 4.1.16. Pressure charger: yes/no <sup>(1)</sup>
- 4.1.16.1. Make: .....
- 4.1.16.2. Type: .....
- 4.1.16.3. Description of the system (e.g. maximum charge pressure, waste-gate, if applicable): .....
- 4.1.16.4. Intercooler: yes/no <sup>(1)</sup>
- 4.1.17. Intake system: maximum allowable intake depression at rated engine speed and at 100 % load: ..... kPa
- 4.1.18. Exhaust system: maximum permissible exhaust back pressure at rated engine speed and at 100 % load: ..... kPa
- 4.2. Additional anti-pollution devices (if any, and if not covered by another heading)
- Description and/or <sup>(1)</sup> diagram(s): .....
- 4.3. Fuel feed
- 4.3.1. Feed pump
- Pressure <sup>(2)</sup> or characteristic diagram: ..... kPa
- 4.3.2. Injection system
- 4.3.2.1. Pump
- 4.3.2.1.1. Make(s): .....
- 4.3.2.1.2. Type(s): .....
- 4.3.2.1.3. Delivery: ..... mm<sup>3</sup> <sup>(2)</sup> per stroke or cycle at pump speed of: ..... r/min (rated) and ..... r/min (maximum torque) respectively, or characteristic diagram
- State which method used: on engine/on pump bench <sup>(1)</sup>
- 4.3.2.1.4. Injection advance
- 4.3.2.1.4.1. Injection advance curve <sup>(2)</sup>: .....
- 4.3.2.1.4.2. Timing <sup>(2)</sup>: .....
- 4.3.2.2. Injection piping
- 4.3.2.2.1. Length: ..... mm
- 4.3.2.2.2. Internal diameter: ..... mm
- 4.3.2.3. Injector(s)
- 4.3.2.3.1. Make(s): .....
- 4.3.2.3.2. Type(s): .....
- 4.3.2.3.3. Opening pressure <sup>(2)</sup> or characteristic diagram <sup>(1)</sup>: .....
- 4.3.2.4. Governor(s)

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- 4.1.15.5. Lubricant temperature: minimum: ..... K      maximum: ..... K
- 4.1.16. Pressure charger: yes/no <sup>(1)</sup>
- 4.1.16.1. Make: .....
- 4.1.16.2. Type: .....
- 4.1.16.3. Description of the system (e.g. maximum charge pressure, waste-gate, if applicable): .....
- 4.1.16.4. Intercooler: yes/no <sup>(1)</sup>
- 4.1.17. Intake system: maximum allowable intake depression at rated engine speed and at 100 % load: ..... kPa
- 4.1.18. Exhaust system: maximum permissible exhaust back pressure at rated engine speed and at 100 % load: ..... kPa
- 4.2. Additional anti-pollution devices (if any, and if not covered by another heading)
- Description and/or <sup>(1)</sup> diagram(s): .....
- 4.3. Fuel feed
- 4.3.1. Feed pump
- Pressure <sup>(2)</sup> or characteristic diagram: ..... kPa
- 4.3.2. Injection system
- 4.3.2.1. Pump
- 4.3.2.1.1. Make(s): .....
- 4.3.2.1.2. Type(s): .....
- 4.3.2.1.3. Delivery: ..... mm<sup>3</sup> <sup>(2)</sup> per stroke or cycle at pump speed of: ..... r/min (rated) and ..... r/min (maximum torque) respectively, or characteristic diagram
- State which method used: on engine/on pump bench <sup>(1)</sup>
- 4.3.2.1.4. Injection advance
- 4.3.2.1.4.1. Injection advance curve <sup>(2)</sup>: .....
- 4.3.2.1.4.2. Timing <sup>(2)</sup>: .....
- 4.3.2.2. Injection piping
- 4.3.2.2.1. Length: ..... mm
- 4.3.2.2.2. Internal diameter: ..... mm
- 4.3.2.3. Injector(s)
- 4.3.2.3.1. Make(s): .....
- 4.3.2.3.2. Type(s): .....
- 4.3.2.3.3. Opening pressure <sup>(2)</sup> or characteristic diagram <sup>(1)</sup>: .....
- 4.3.2.4. Governor(s)

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- 4.1.15.5. Lubricant temperature: minimum: ..... K      maximum: ..... K
- 4.1.16. Pressure charger: yes/no <sup>(1)</sup>
- 4.1.16.1. Make: .....
- 4.1.16.2. Type: .....
- 4.1.16.3. Description of the system (e.g. maximum charge pressure, waste-gate, if applicable): .....
- 4.1.16.4. Intercooler: yes/no <sup>(1)</sup>
- 4.1.17. Intake system: maximum allowable intake depression at rated engine speed and at 100 % load: ..... kPa
- 4.1.18. Exhaust system: maximum permissible exhaust back pressure at rated engine speed and at 100 % load: ..... kPa
- 4.2. Additional anti-pollution devices (if any, and if not covered by another heading)
- Description and/or <sup>(1)</sup> diagram(s): .....
- 4.3. Fuel feed
- 4.3.1. Feed pump
- Pressure <sup>(2)</sup> or characteristic diagram: ..... kPa
- 4.3.2. Injection system
- 4.3.2.1. Pump
- 4.3.2.1.1. Make(s): .....
- 4.3.2.1.2. Type(s): .....
- 4.3.2.1.3. Delivery: ..... mm<sup>3</sup> <sup>(2)</sup> per stroke or cycle at pump speed of: ..... r/min (rated) and ..... r/min (maximum torque) respectively, or characteristic diagram
- State which method used: on engine/on pump bench <sup>(1)</sup>
- 4.3.2.1.4. Injection advance
- 4.3.2.1.4.1. Injection advance curve <sup>(2)</sup>: .....
- 4.3.2.1.4.2. Timing <sup>(2)</sup>: .....
- 4.3.2.2. Injection piping
- 4.3.2.2.1. Length: ..... mm
- 4.3.2.2.2. Internal diameter: ..... mm
- 4.3.2.3. Injector(s)
- 4.3.2.3.1. Make(s): .....
- 4.3.2.3.2. Type(s): .....
- 4.3.2.3.3. Opening pressure <sup>(2)</sup> or characteristic diagram <sup>(1)</sup>: .....
- 4.3.2.4. Governor(s)

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- 4.1.15.5. Lubricant temperature: minimum: ..... K      maximum: ..... K
- 4.1.16. Pressure charger: yes/no <sup>(1)</sup>
- 4.1.16.1. Make: .....
- 4.1.16.2. Type: .....
- 4.1.16.3. Description of the system (e.g. maximum charge pressure, waste-gate, if applicable): .....
- 4.1.16.4. Intercooler: yes/no <sup>(1)</sup>
- 4.1.17. Intake system: maximum allowable intake depression at rated engine speed and at 100 % load: ..... kPa
- 4.1.18. Exhaust system: maximum permissible exhaust back pressure at rated engine speed and at 100 % load: ..... kPa
- 4.2. Additional anti-pollution devices (if any, and if not covered by another heading)
- Description and/or <sup>(1)</sup> diagram(s): .....
- 4.3. Fuel feed
- 4.3.1. Feed pump
- Pressure <sup>(2)</sup> or characteristic diagram: ..... kPa
- 4.3.2. Injection system
- 4.3.2.1. Pump
- 4.3.2.1.1. Make(s): .....
- 4.3.2.1.2. Type(s): .....
- 4.3.2.1.3. Delivery: ..... mm<sup>3</sup> <sup>(2)</sup> per stroke or cycle at pump speed of: ..... r/min (rated) and ..... r/min (maximum torque) respectively, or characteristic diagram
- State which method used: on engine/on pump bench <sup>(1)</sup>
- 4.3.2.1.4. Injection advance
- 4.3.2.1.4.1. Injection advance curve <sup>(2)</sup>: .....
- 4.3.2.1.4.2. Timing <sup>(2)</sup>: .....
- 4.3.2.2. Injection piping
- 4.3.2.2.1. Length: ..... mm
- 4.3.2.2.2. Internal diameter: ..... mm
- 4.3.2.3. Injector(s)
- 4.3.2.3.1. Make(s): .....
- 4.3.2.3.2. Type(s): .....
- 4.3.2.3.3. Opening pressure <sup>(2)</sup> or characteristic diagram <sup>(1)</sup>: .....
- 4.3.2.4. Governor(s)



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- 4.1.15.5. Lubricant temperature: minimum: ..... K      maximum: ..... K
- 4.1.16. Pressure charger: yes/no <sup>(1)</sup>
- 4.1.16.1. Make: .....
- 4.1.16.2. Type: .....
- 4.1.16.3. Description of the system (e.g. maximum charge pressure, waste-gate, if applicable): .....
- 4.1.16.4. Intercooler: yes/no <sup>(1)</sup>
- 4.1.17. Intake system: maximum allowable intake depression at rated engine speed and at 100 % load: ..... kPa
- 4.1.18. Exhaust system: maximum permissible exhaust back pressure at rated engine speed and at 100 % load: ..... kPa
- 4.2. Additional anti-pollution devices (if any, and if not covered by another heading)
- Description and/or <sup>(1)</sup> diagram(s): .....
- 4.3. Fuel feed
- 4.3.1. Feed pump
- Pressure <sup>(2)</sup> or characteristic diagram: ..... kPa
- 4.3.2. Injection system
- 4.3.2.1. Pump
- 4.3.2.1.1. Make(s): .....
- 4.3.2.1.2. Type(s): .....
- 4.3.2.1.3. Delivery: ..... mm<sup>3</sup> <sup>(2)</sup> per stroke or cycle at pump speed of: ..... r/min (rated) and ..... r/min (maximum torque) respectively, or characteristic diagram
- State which method used: on engine/on pump bench <sup>(1)</sup>
- 4.3.2.1.4. Injection advance
- 4.3.2.1.4.1. Injection advance curve <sup>(2)</sup>: .....
- 4.3.2.1.4.2. Timing <sup>(2)</sup>: .....
- 4.3.2.2. Injection piping
- 4.3.2.2.1. Length: ..... mm
- 4.3.2.2.2. Internal diameter: ..... mm
- 4.3.2.3. Injector(s)
- 4.3.2.3.1. Make(s): .....
- 4.3.2.3.2. Type(s): .....
- 4.3.2.3.3. Opening pressure <sup>(2)</sup> or characteristic diagram <sup>(1)</sup>: .....
- 4.3.2.4. Governor(s)

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## Appendix 2

### SPECIMEN

(Maximum format A4 (210 x 297 mm))

- 4.1.15.5. Lubricant temperature: minimum: ..... K      maximum: ..... K
- 4.1.16. Pressure charger: yes/no <sup>(1)</sup>
- 4.1.16.1. Make: .....
- 4.1.16.2. Type: .....
- 4.1.16.3. Description of the system (e.g. maximum charge pressure, waste-gate, if applicable): .....
- 4.1.16.4. Intercooler: yes/no <sup>(1)</sup>
- 4.1.17. Intake system: maximum allowable intake depression at rated engine speed and at 100 % load: ..... kPa
- 4.1.18. Exhaust system: maximum permissible exhaust back pressure at rated engine speed and at 100 % load: ..... kPa
- 4.2. Additional anti-pollution devices (if any, and if not covered by another heading)
- Description and/or <sup>(1)</sup> diagram(s): .....
- 4.3. Fuel feed
- 4.3.1. Feed pump
- Pressure <sup>(2)</sup> or characteristic diagram: ..... kPa
- 4.3.2. Injection system
- 4.3.2.1. Pump
- 4.3.2.1.1. Make(s): .....
- 4.3.2.1.2. Type(s): .....
- 4.3.2.1.3. Delivery: ..... mm<sup>3</sup> <sup>(2)</sup> per stroke or cycle at pump speed of: ..... r/min (rated) and ..... r/min (maximum torque) respectively, or characteristic diagram
- State which method used: on engine/on pump bench <sup>(1)</sup>
- 4.3.2.1.4. Injection advance
- 4.3.2.1.4.1. Injection advance curve <sup>(2)</sup>: .....
- 4.3.2.1.4.2. Timing <sup>(2)</sup>: .....
- 4.3.2.2. Injection piping
- 4.3.2.2.1. Length: ..... mm
- 4.3.2.2.2. Internal diameter: ..... mm
- 4.3.2.3. Injector(s)

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- 4.1.15.5. Lubricant temperature: minimum: ..... K      maximum: ..... K
- 4.1.16. Pressure charger: yes/no <sup>(1)</sup>
- 4.1.16.1. Make: .....
- 4.1.16.2. Type: .....
- 4.1.16.3. Description of the system (e.g. maximum charge pressure, waste-gate, if applicable): .....
- 4.1.16.4. Intercooler: yes/no <sup>(1)</sup>
- 4.1.17. Intake system: maximum allowable intake depression at rated engine speed and at 100 % load: ..... kPa
- 4.1.18. Exhaust system: maximum permissible exhaust back pressure at rated engine speed and at 100 % load: ..... kPa
- 4.2. Additional anti-pollution devices (if any, and if not covered by another heading)
- Description and/or <sup>(1)</sup> diagram(s): .....
- 4.3. Fuel feed
- 4.3.1. Feed pump
- Pressure <sup>(2)</sup> or characteristic diagram: ..... kPa
- 4.3.2. Injection system
- 4.3.2.1. Pump
- 4.3.2.1.1. Make(s): .....
- 4.3.2.1.2. Type(s): .....
- 4.3.2.1.3. Delivery: ..... mm<sup>3</sup> <sup>(2)</sup> per stroke or cycle at pump speed of: ..... r/min (rated) and ..... r/min (maximum torque) respectively, or characteristic diagram
- State which method used: on engine/on pump bench <sup>(1)</sup>
- 4.3.2.1.4. Injection advance
- 4.3.2.1.4.1. Injection advance curve <sup>(2)</sup>: .....
- 4.3.2.1.4.2. Timing <sup>(2)</sup>: .....
- 4.3.2.2. Injection piping
- 4.3.2.2.1. Length: ..... mm
- 4.3.2.2.2. Internal diameter: ..... mm
- 4.3.2.3. Injector(s)
- 4.3.2.3.1. Make(s): .....
- 4.3.2.3.2. Type(s): .....
- 4.3.2.3.3. Opening pressure <sup>(2)</sup> or characteristic diagram <sup>(1)</sup>: .....
- 4.3.2.4. Governor(s)

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- 4.1.15.5. Lubricant temperature: minimum: ..... K      maximum: ..... K
- 4.1.16. Pressure charger: yes/no <sup>(1)</sup>
- 4.1.16.1. Make: .....
- 4.1.16.2. Type: .....
- 4.1.16.3. Description of the system (e.g. maximum charge pressure, waste-gate, if applicable): .....
- 4.1.16.4. Intercooler: yes/no <sup>(1)</sup>
- 4.1.17. Intake system: maximum allowable intake depression at rated engine speed and at 100 % load: ..... kPa
- 4.1.18. Exhaust system: maximum permissible exhaust back pressure at rated engine speed and at 100 % load: ..... kPa
- 4.2. Additional anti-pollution devices (if any, and if not covered by another heading)
- Description and/or <sup>(1)</sup> diagram(s): .....
- 4.3. Fuel feed
- 4.3.1. Feed pump
- Pressure <sup>(2)</sup> or characteristic diagram: ..... kPa
- 4.3.2. Injection system
- 4.3.2.1. Pump
- 4.3.2.1.1. Make(s): .....
- 4.3.2.1.2. Type(s): .....
- 4.3.2.1.3. Delivery: ..... mm<sup>3</sup> <sup>(2)</sup> per stroke or cycle at pump speed of: ..... r/min (rated) and ..... r/min (maximum torque) respectively, or characteristic diagram
- State which method used: on engine/on pump bench <sup>(1)</sup>
- 4.3.2.1.4. Injection advance
- 4.3.2.1.4.1. Injection advance curve <sup>(2)</sup>: .....
- 4.3.2.1.4.2. Timing <sup>(2)</sup>: .....
- 4.3.2.2. Injection piping
- 4.3.2.2.1. Length: ..... mm
- 4.3.2.2.2. Internal diameter: ..... mm
- 4.3.2.3. Injector(s)
- 4.3.2.3.1. Make(s): .....
- 4.3.2.3.2. Type(s): .....
- 4.3.2.3.3. Opening pressure <sup>(2)</sup> or characteristic diagram <sup>(1)</sup>: .....
- 4.3.2.4. Governor(s)

### [<sup>F1</sup>ANNEX III

#### RECOGNITION OF ALTERNATIVE TYPE-APPROVALS

1. For stage I the following certificates of type-approvals are recognised to be equivalent for engines of categories A, B and C as defined in Directive 97/68/EC:
  - 1.1. certificates of type-approvals according to Directive 97/68/EC;
  - 1.2. certificates of type-approvals according to Directive 88/77/EEC, complying with the requirements of stage A or B regarding Article 2 and Annex I, Section 6.2.1 of Directive 88/77/EEC as amended by Directive 91/542/EEC, or UN-ECE Regulation 49.02 series of amendments corrigenda I/2;
  - 1.3. certificates of type-approvals according to UN-ECE Regulation 96.
2. For stage II the following certificates of type-approvals are recognised to be equivalent:
  - 2.1. certificates of type-approvals according to Directive 97/68/EC, stage II for engines of categories D, E, F and G;
  - 2.2. type-approvals to Directive 88/77/EEC as amended by Directive 99/96/EC which are in compliance with stages A, B1, B2 or C provided for in Article 2 and section 6.2.1 of Annex I;
  - 2.3. UN-ECE Regulation 49.03 series of amendments;
  - 2.4. UN-ECE Regulation 96 stage B approvals according to paragraph 5.2.1 of the 01 series of amendments of Regulation 96.
3. For stage III A the following certificates of type-approvals are recognised to be equivalent:

Certificates of type-approvals according to Directive 97/68/EC, stage III A for engines of categories H, I, J and K.
4. For stage III B the following certificates of type-approvals are recognised to be equivalent:

certificates of type-approvals according to Directive 97/68/EC, stage III B for engines of categories L, M, N and P.
5. For stage IV the following certificates of type-approvals are recognised to be equivalent:

certificates of type-approvals according to Directive 97/68/EC, stage IV for engines of categories Q and R.]

### [<sup>F3</sup>ANNEX IV

#### **PROVISIONS FOR TRACTORS AND ENGINES PLACED ON THE MARKET UNDER THE FLEXIBILITY SCHEME LAID DOWN IN ARTICLE 3a**

1. ACTIONS BY THE TRACTOR MANUFACTURERS

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- 1.1. Except during Stage III B, a tractor manufacturer who wishes to make use of the flexibility scheme shall request permission from the approval authority to place tractors on the market in accordance with the relevant provisions set out in this Annex. The number of tractors shall not exceed the ceilings set out in sections 1.1.1 and 1.1.2. The engines shall meet the requirements referred to in Article 3a.
- 1.1.1. The number of tractors placed on the market under the flexibility scheme shall, in each engine category, not exceed 20 % of the annual number of tractors placed on the market by the tractor manufacturer with engines in that engine category (calculated as the average of the last five years' sales on the Union market). Where a tractor manufacturer has marketed tractors in the Union for a period of less than five years the average will be calculated based on the actual period for which the tractor manufacturer has marketed tractors in the Union.
- 1.1.2. As an alternative option to section 1.1.1, the number of tractors placed on the market under the flexibility scheme shall, in each power range, not exceed the following ceilings:

<b>Engine power range P (kW)</b>	<b>Number of tractors</b>
$19 \leq P < 37$	200
$37 \leq P < 75$	150
$75 \leq P < 130$	100
$130 \leq P \leq 560$	50

- 1.2. During Stage III B, a tractor manufacturer who wishes to make use of the flexibility scheme shall request permission from the approval authority to place tractors on the market in accordance with the relevant provisions set out in this Annex. The number of tractors shall not exceed the ceilings set out in sections 1.2.1 and 1.2.2. The engines shall meet the requirements referred to in Article 3a.
- 1.2.1. The number of tractors placed on the market under the flexibility scheme shall, in each engine category, not exceed 40 % of the annual number of tractors placed on the market by the tractor manufacturer with engines in that engine category (calculated as the average of the last five years' sales on the Union market). Where a tractor manufacturer has marketed tractors in the Union for a period of less than five years the average will be calculated based on the actual period for which the tractor manufacturer has marketed tractors in the Union.
- 1.2.2. As an alternative option to section 1.2.1, the number of tractors placed on the market under the flexibility scheme shall, in each power range, not exceed the following ceilings:

<b>Engine power range P (kW)</b>	<b>Number of tractors</b>
$37 \leq P < 56$	200
$56 \leq P < 75$	175
$75 \leq P < 130$	250
$130 \leq P \leq 560$	125

- 1.3. The tractor manufacturer shall include in his application to the approval authority the following information:
  - (a) a sample of the labels to be affixed to each tractor in which an engine placed on the market under the flexibility scheme will be installed. The labels shall bear the following text: ‘TRACTOR NO ... (sequence of tractors) OF ... (total number of tractors in respective power range) WITH ENGINE NO ... WITH TYPE-APPROVAL (Directive 2000/25/EC) NO ...’; and
  - (b) a sample of the supplementary label to be affixed on the engine bearing the text referred to in section 2.2.
- 1.4. The tractor manufacturer shall provide the approval authority with any necessary information connected with the implementation of the flexibility scheme that the approval authority may request in order to make a decision.
- 1.5. The tractor manufacturer shall file a report every six months to the approval authorities of each Member State where the tractor is placed on the market on the implementation of the flexibility schemes he is using. The report shall include cumulative data on the number of tractors placed on the market under the flexibility scheme, engine and tractor serial numbers, and the Member States where the tractor has been entered into service. This procedure shall be continued as long as a flexibility scheme is still in progress, without any exceptions.

## 2. ACTIONS BY THE ENGINE MANUFACTURER

- 2.1. An engine manufacturer may place on the market engines under the flexibility scheme approved in accordance with sections 1 and 3 of this Annex.
- 2.2. The engine manufacturer shall label those engines with the following text: ‘Engine placed on the market under the flexibility scheme’ in accordance with the requirements referred to in section 5 of Annex I.

## 3. ACTIONS BY THE APPROVAL AUTHORITY

The approval authority shall evaluate the content of the flexibility scheme request and the enclosed documents. As a consequence it will inform the tractor manufacturer of its decision as to whether or not to allow use of the flexibility scheme as requested.]

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- (1) OJ C 303, 2.10.1998, p. 9.
- (2) OJ C 101, 12.4.1999, p. 13.
- (3) Opinion of the European Parliament of 5 May 1999 (OJ C 279, 1.10.1999, p. 209), Council Common Position of 22 November 1999 (OJ C 17, 20.1.2000, p. 13) and Decision of the European Parliament of 12 April 2000 (not yet published in to Official Journal).
- (4) OJ L 84, 28.3.1974, p. 10. Directive as last amended by Directive 97/54/EC (OJ L 277, 10.10.1997, p. 24).
- (5) OJ L 220, 29.8.1977, p. 38. Directive as last amended by Directive 97/54/EC.
- (6) OJ L 59, 27.2.1998, p. 1.
- (7) OJ L 36, 9.2.1988, p. 33. Directive as last amended by Directive 96/1/EC (OJ L 40, 17.2.1996, p. 1).
- (8) Delete where inappropriate.
- (9) NN/NN = the number of these Directives.