

I

(Acts whose publication is obligatory)

COMMISSION DIRECTIVE 2001/3/EC

of 8 January 2001

adapting to technical progress Council Directive 74/150/EEC relating to the type-approval of wheeled agricultural or forestry tractors and Council Directive 75/322/EEC relating to the suppression of radio interference produced by spark-ignition engines fitted to wheeled agricultural or forestry tractors

(Text with EEA relevance)

THE COMMISSION OF THE EUROPEAN COMMUNITIES,

Having regard to the Treaty establishing the European Community,

Having regard to 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⁽¹⁾, as last amended by European Parliament and Council Directive 2000/25/EC⁽²⁾, and in particular Article 11 thereof,

Whereas:

- (1) It is necessary to clarify certain Articles of Directive 74/150/EEC and to align the Annexes thereto with the Annexes to Council Directive 70/156/EEC of 6 February 1970 on the approximation of the laws of the Member States relating to the type-approval of motor vehicles and their trailers⁽³⁾, as last amended by European Parliament and Council Directive 2000/40/EC⁽⁴⁾, and with the Annexes to Council Directive 92/61/EEC of 30 June 1992 relating to the type-approval of two- or three-wheel motor vehicles⁽⁵⁾, as last amended by European Parliament and Council Directive 2000/7/EC⁽⁶⁾.
- (2) Council Directive 75/322(EEC)⁽⁷⁾, as last amended by Commission Directive 2000/2/EC⁽⁸⁾, contains an information document which needs to be renumbered to take account of the numbering scheme introduced by this Directive.

(3) Directives 74/150/EEC and 75/322/EEC should be adapted accordingly.

(4) The provisions of this Directive are in accordance with the opinion of the Committee for Adaptation to Technical Progress established by Article 12 of Directive 74/150/EEC,

HAS ADOPTED THIS DIRECTIVE:

Article 1

Directive 74/150/EEC is hereby amended as follows:

1. In Article 2(b), the words 'special Directives' are replaced by the words 'special Directives listed in Annex II'.
2. In Article 3, the second sentence is replaced by the following:

'An application shall be accompanied by an exhaustive list of information or an information document, the models of which are given in Annex I, and by the documents referred to therein.'
3. In Article 4(1), the introductory wording is replaced by the following:

'A Member State shall approve all tractor types (defined in Annex II, along with the category to which it belongs) which satisfy the following conditions:'.
4. The Annexes are replaced by the text shown in Annex I to this Directive.

Article 2

Annex IIA (other than its appendices) to Directive 75/322/EEC is replaced by the text shown in Annex II to this Directive.

⁽¹⁾ OJ L 84, 28.3.1974, p. 10.

⁽²⁾ OJ L 173, 12.7.2000, p. 1.

⁽³⁾ OJ L 42, 23.2.1970, p. 1.

⁽⁴⁾ OJ L 203, 10.8.2000, p. 9.

⁽⁵⁾ OJ L 225, 10.8.1992, p. 72.

⁽⁶⁾ OJ L 106, 3.5.2000, p. 1.

⁽⁷⁾ OJ L 147, 9.6.1975, p. 28.

⁽⁸⁾ OJ L 21, 26.1.2000, p. 23.

Article 3

Member States shall bring into force the laws, regulations and administrative provisions necessary to comply with this Directive no later than 30 June 2002. They shall immediately inform the Commission thereof.

When Member States adopt those provisions, they shall contain a reference to this Directive or be accompanied by such a reference on the occasion of their official publication. Member States shall determine how such reference is to be made.

Article 4

This Directive shall enter into force on the 20th day following its publication in the *Official Journal of the European Communities*.

Article 5

This Directive is addressed to the Member States.

Done at Brussels, 8 January 2001.

For the Commission

Erkki LIIKANEN

Member of the Commission

ANNEX I

'LIST OF ANNEXES

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ANNEX I

MODEL INFORMATION DOCUMENTS

(All of the information documents referred to in the Directive and in the separate directives shall consist solely of extracts from this exhaustive list and shall use its numbering system to the exclusion of all others.)

The following information, if applicable, must be supplied in triplicate and include a list of contents. 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, if any, must show sufficient detail.

MODEL A**Exhaustive list**

Model A should be used in the absence of a type-approval certificate or component type-approval certificate issued pursuant to a separate directive.

- 0. GENERAL
 - 0.1. Make(s) (trade mark registered by the manufacturer):
 - 0.2. Type (specify any variants and versions):
 - 0.2.1. Trade name(s) (where appropriate):
 - 0.3. Means of identification of type, if marked on the tractor:
 - 0.3.1. Manufacturer's plate (location and method of affixing):
 - 0.3.2. Chassis identification number (location):
 - 0.4. Category of tractor ⁽⁴⁾:
 - 0.5. Name and address of manufacturer:
 - 0.6. Location of and method of affixing statutory plates and inscriptions (photographs or drawings):
 - 0.7. Location of the EC type-approval mark on systems, components and separate technical units, and method of affixing it:
 - 0.8. Name(s) and address(es) of assembly plant(s):
- 1. GENERAL CONSTRUCTION CHARACTERISTICS OF THE TRACTOR

(attach 3/4 front and 3/4 rear photographs or drawings of a representative vehicle, and a dimensioned drawing of the entire tractor)

 - 1.1. Number of axles and wheels:
 - 1.1.1. Number and position of axles with twinned wheels (if applicable):
 - 1.1.2. Number and position of steered axles:
 - 1.1.3. Powered axles (number, position, interconnection):
 - 1.1.4. Brakes axles (number, position):
 - 1.2. Position and arrangement of the engine:

- 1.3. Position of the steering wheel: right/left/centre ⁽¹⁾
- 1.4. Reversible driving position: yes/no ⁽¹⁾
- 1.5. Chassis: backbone/chassis with side members/articulated chassis/other ⁽¹⁾
- 1.6. Tractor designed for driving on the: right/left ⁽¹⁾
- 2. MASSES AND DIMENSIONS ⁽⁵⁾ (in kg and mm)
(refer to drawings where applicable)
- 2.1. Unladen mass(es)
- 2.1.1. Unladen mass(es) of the tractor in running order ⁽¹⁵⁾ (serving as a reference point for the various separate directives) (including the roll-over protection structure, excluding optional accessories, but with coolant, lubricants, fuel, tools and driver) ⁽⁶⁾:
 - maximum:
 - minimum:
- 2.1.1.1. Distribution of this (these) mass(es) among the axles:
- 2.2. Maximum mass(es) as declared by the manufacturer:
- 2.2.1. Maximum laden mass(es) of tractor according to the tyre specification:
- 2.2.2. Distribution of this (these) mass(es) among the axles:
- 2.2.3. Limits on the distribution of this (these) mass(es) among the axles (specify the minimum limits in percentages on the front axle and on the rear axle)
- 2.2.3.1. Mass(es) and tyre(s):

| Axle No | Tyres (dimensions) | Load capacity | Technically permissible maximum mass on each axle | Maximum permissible vertical load (*) on the coupling point |
|---------|--------------------|---------------|---|---|
| 1 | | | | |
| 2 | | | | |
| 3 | | | | |

(*) Load transmitted to the reference centre of the coupling under static conditions.

- 2.2.4. Payload ⁽¹⁵⁾:
- 2.3. Ballast masses (total weight, material, number of components):
- 2.3.1. Distribution of this (these) mass(es) among the axles:
- 2.4. Technically permissible towable mass(es) (according to type of coupling)
- 2.4.1. Unbraked towable mass:
- 2.4.2. Independently braked towable mass:
- 2.4.3. Inertia-braked towable mass:
- 2.4.4. Towable mass when fitted with hydraulic or pneumatic braking:
- 2.4.5. Total technically permissible mass(es) of the tractor-trailer combination for each configuration of trailer braking:

- 2.4.6. Position of coupling point
 - 2.4.6.1. Height above ground:
 - 2.4.6.1.1. Maximum:
 - 2.4.6.1.2. Minimum:
 - 2.4.6.2. Distance from the vertical plane passing through the axis of the rear axle:
- 2.5. Wheelbase ⁽⁷⁾:
- 2.6. Maximum and minimum width of track of each axle (measured between the symmetry planes of the single or twin tyres normally fitted) (to be stated by the manufacturer) ⁽⁸⁾:
- 2.7. Overall dimensions of the tractor, including coupling unit
 - 2.7.1. Length for on-road use ⁽⁹⁾:
 - maximum:
 - minimum:
 - 2.7.2. Width for on-road use ⁽¹⁰⁾:
 - maximum:
 - minimum:
 - 2.7.3. Height for on-road use ⁽¹¹⁾:
 - maximum:
 - minimum:
 - 2.7.4. Forward overhang ⁽¹²⁾:
 - maximum:
 - minimum:
 - 2.7.5. Rear overhang ⁽¹³⁾:
 - maximum:
 - minimum:
 - 2.7.6. Ground clearance ⁽¹⁴⁾:
 - maximum:
 - minimum:

3. ENGINE

3.1. Part 1 — General

3.1.1. Parent engine/engine type ⁽¹⁾ ⁽²⁰⁾

Manufacturer's registered trade mark(s):

3.1.2. Type and commercial description of the parent engine and (where appropriate) of the family of engine(s) ⁽¹⁾:

.....

- 3.1.3. Means of identification of type, if marked on the engine(s), and method of affixing it:
- 3.1.3.1. Location, means of identification and method of affixing the engine type identification characters:
- 3.1.3.2. Location and method of affixing the EC type-approval number:
- 3.1.4. Name and address of manufacturer:
- 3.1.5. Addresses of assembly plants:
- 3.1.6. Operating principle:
- spark/compression ignition ⁽¹⁾
 - direct/indirect injection ⁽¹⁾
 - two/four-stroke ⁽¹⁾
- 3.1.7. Fuel:
- diesel/petrol/LPG/other ⁽¹⁾
- 3.2. **Part 2 — Engine type**
- Essential characteristics of the engine type**
- 3.2.1. Description of the compression ignition engine
- 3.2.1.1. Manufacturer:
- 3.2.1.2. Engine type affixed by the manufacturer:
- 3.2.1.3. Working principle: four/two-stroke ⁽¹⁾
- 3.2.1.4. Bore: mm
- 3.2.1.5. Stroke: mm
- 3.2.1.6. Number and arrangement of cylinders:
- 3.2.1.7. Engine displacement: cm³
- 3.2.1.8. Engine rating: min⁻¹
- 3.2.1.9. Maximum torque: min⁻¹
- 3.2.1.10. Compression ratio ⁽²⁾:
- 3.2.1.11. Combustion system:
- 3.2.1.12. Drawing(s) of combustion chamber and piston crown:
- 3.2.1.13. Minimum cross-section of inlet and exhaust pipes:
- 3.2.1.14. Cooling system
- 3.2.1.14.1. Liquid
- 3.2.1.14.1.1. Type of liquid:
- 3.2.1.14.1.2. Circulation pump(s): with/without ⁽¹⁾
- 3.2.1.14.1.3. Characteristics or make(s) and type(s) (if applicable):

- 3.2.1.14.1.4. Drive ratio(s) (if applicable):
- 3.2.1.14.2. Air
- 3.2.1.14.2.1. Blower: with/without ⁽¹⁾
- 3.2.1.14.2.2. Characteristics or make(s) and type(s) (if applicable):
- 3.2.1.14.2.3. Drive ratio(s) (if applicable):
- 3.2.1.15. Temperature authorised by the manufacturer:
- 3.2.1.15.1. Liquid cooling: maximum outlet temperature: K
- 3.2.1.15.2. Air cooling: reference point:
- Maximum temperature at reference point: K
- 3.2.1.15.3. Maximum air supply temperature at the egress point of the inlet intercooler (where applicable): K
- 3.2.1.15.4. Maximum temperature of exhaust gases in the exhaust pipes adjacent to the outlet flanges of the exhaust manifold: K
- 3.2.1.15.5. Temperature of the lubricant: min.: K, max.: K
- 3.2.1.16. Supercharger: with/without ⁽¹⁾
- 3.2.1.16.1. Make:
- 3.2.1.16.2. Type:
- 3.2.1.16.3. Description of the system (e.g. maximum pressure, discharge valve, if applicable):
- 3.2.1.16.4. Intercooler: with/without ⁽¹⁾
- 3.2.1.17. Intake system: maximum permissible inlet depression at rated engine speed and full engine load: ... kPa
- 3.2.1.18. Exhaust system: maximum permissible back pressure at rated engine speed and full engine load: ... kPa
- 3.2.2. Additional anti-pollution devices (if any, and if not covered by another heading):
- Description and/or diagrams:
- 3.2.3. Fuel feed
- 3.2.3.1. Feed pump
- Pressure ⁽²⁾ or characteristic diagram: kPa
- 3.2.3.2. Injection system
- 3.2.3.2.1. Pump
- 3.2.3.2.1.1. Make(s):
- 3.2.3.2.1.2. Type(s):
- 3.2.3.2.1.3. Delivery: mm³ ⁽²⁾ per injection or per cycle at a rated pump speed of: min⁻¹ (rated) and of: min⁻¹ (maximum torque) respectively, or diagram:
- Indicate method used: on engine/on test bench ⁽¹⁾

| | | |
|----------------|---|-------------------------|
| 3.2.3.2.1.4. | Injection advance | |
| 3.2.3.2.1.4.1. | Injection advance curve (²): | ..... |
| 3.2.3.2.1.4.2. | Timing (²): | ..... |
| 3.2.3.2.2. | Injection piping | |
| 3.2.3.2.2.1. | Length(s): | mm |
| 3.2.3.2.2.2. | Internal diameter: | mm |
| 3.2.3.2.3. | Injector(s) | |
| 3.2.3.2.3.1. | Make(s): | ..... |
| 3.2.3.2.3.2. | Type(s): | ..... |
| 3.2.3.2.3.3. | Starting pressure (²) or diagram (¹): | ..... |
| 3.2.3.2.4. | Governor | |
| 3.2.3.2.4.1. | Make(s): | ..... |
| 3.2.3.2.4.2. | Type(s): | ..... |
| 3.2.3.2.4.3. | Cut-off initiation speed under full load (²): | min ⁻¹ |
| 3.2.3.2.4.4. | Maximum no-load speed (²): | min ⁻¹ |
| 3.2.3.2.4.5. | Idling speed (²): | min ⁻¹ |
| 3.2.3.3. | Cold-start system | |
| 3.2.3.3.1. | Make(s): | ..... |
| 3.2.3.3.2. | Type(s): | ..... |
| 3.2.3.3.3. | Description: | ..... |
| 3.2.4. | Valve timing | |
| 3.2.4.1. | Maximum valve lift and opening and closing angles in relation to top dead centre or equivalent characteristics: | ..... |
| 3.2.4.2. | Reference clearances and/or setting range (¹) | |
| 3.2.5. | Electronic control functions | |
| | If the engine has electronic control functions, relevant performance data must be provided, and in particular: | |
| 3.2.5.1. | Make: | ..... |
| 3.2.5.2. | Type: | ..... |
| 3.2.5.3. | Component number: | ..... |
| 3.2.5.4. | Location of electronic control unit: | ..... |
| 3.2.5.4.1. | Components detected: | ..... |

3.2.5.4.2. Components controlled:

3.3 **Part 3 — Compression ignition engine family**

Essential characteristics of engine family

3.3.1. List of engine types making up the family

3.3.1.1. Name of engine family:

3.3.1.2. Specifications of engine types within the family

| | | | | | Representative engine |
|--|--|--|--|--|-----------------------|
| Engine types | | | | | |
| Number of cylinders | | | | | |
| Nominal rating (min ⁻¹) | | | | | |
| Fuel intake per stroke (mm ³) at nominal rating | | | | | |
| Net rated power (kW) | | | | | |
| Maximum torque (min ⁻¹) | | | | | |
| Fuel intake per stroke (mm ³) at maximum torque | | | | | |
| Maximum torque (N.m) | | | | | |
| Idling speed (min ⁻¹) | | | | | |
| Cylinder capacity as a percentage of the representative engine | | | | | 100 |

3.4. **Part 4 — Engine type within the family**

Essential characteristics of the family's representative engine type ⁽²⁰⁾

3.4.1. Description of the compression ignition engine

3.4.1.1. Manufacturer:

3.4.1.2. Engine type affixed by the manufacturer:

3.4.1.3. Four/two-stroke ⁽¹⁾

3.4.1.4. Bore: mm

3.4.1.5. Stroke: mm

3.4.1.6. Number and arrangement of cylinders:

3.4.1.7. Engine displacement: cm³

3.4.1.8. Engine rating: min⁻¹

3.4.1.9. Engine speed at maximum torque: min⁻¹

3.4.1.10. Compression ratio ⁽²⁾:

3.4.1.11. Combustion system:

- 3.4.1.12. Drawing(s) of combustion chamber and piston crown:
- 3.4.1.13. Minimum cross-section of inlet and exhaust pipes:
- 3.4.1.14. Cooling system
- 3.4.1.14.1. Liquid
- 3.4.1.14.1.1. Type of liquid:
- 3.4.1.14.1.2. Circulation pump(s): with/without ⁽¹⁾
- 3.4.1.14.1.3. Characteristics or make(s) and type(s) (if applicable):
- 3.4.1.14.1.4. Drive ratio(s) (if applicable):
- 3.4.1.14.2. Air
- 3.4.1.14.2.1. Blower: with/without ⁽¹⁾
- 3.4.1.14.2.2. Characteristics or make(s) and type(s) (if applicable):
- 3.4.1.14.2.3. Drive ratio(s) (if applicable):
- 3.4.1.15. Temperature authorised by the manufacturer:
- 3.4.1.15.1. Liquid cooling: maximum outlet temperature: K
- 3.4.1.15.2. Air cooling: reference point:
- Maximum temperature at reference point: K
- 3.4.1.15.3. Maximum air supply temperature at the egress point of the inlet intercooler (where applicable): K
- 3.4.1.15.4. Maximum temperature of exhaust gases in the exhaust pipes adjacent to the outlet flanges of the exhaust manifold: K
- 3.4.1.15.5. Temperature of the lubricant: minimum: K, maximum: K
- 3.4.1.16. Supercharger: with/without ⁽¹⁾
- 3.4.1.16.1. Make:
- 3.4.1.16.2. Type:
- 3.4.1.16.3. Description of the system (e.g. maximum pressure, discharge valve, where applicable):
- 3.4.1.16.4. Intercooler: with/without ⁽¹⁾
- 3.4.1.17. Intake system: maximum permissible inlet depression at rated engine speed: kPa
- 3.4.1.18. Exhaust system: maximum permissible back pressure at rated engine speed: kPa
- 3.4.2. Additional anti-pollution devices (if any, and if not covered by another heading)
- Description and/or ⁽¹⁾ diagram(s):
- 3.4.3. Fuel feed

- 3.4.3.1. Feed pump
 - Pressure (²) or characteristic diagram: kPa
- 3.4.3.2. Injection system
 - 3.4.3.2.1. Pump
 - 3.4.3.2.1.1. Make(s):
 - 3.4.3.2.1.2. Type(s):
 - 3.4.3.2.1.3. Delivery: mm³ (²) per injection or per cycle at a rated pump speed of: min⁻¹ (rated) and of: min⁻¹ (maximum torque) respectively, or diagram.

Indicate method used: on engine/on test bench (¹)
 - 3.4.3.2.1.4. Injection advance:
 - 3.4.3.2.1.4.1. Injection advance curve (²):
 - 3.4.3.2.1.4.2. Timing (²):
 - 3.4.3.2.2. Injection piping
 - 3.4.3.2.2.1. Length(s): mm
 - 3.4.3.2.2.2. Internal diameter: mm
 - 3.4.3.2.3. Injector(s):
 - 3.4.3.2.3.1. Make(s):
 - 3.4.3.2.3.2. Type(s):
 - 3.4.3.2.3.3. Starting pressure (²) or diagram:
 - 3.4.3.2.4. Governor
 - 3.4.3.2.4.1. Make(s):
 - 3.4.3.2.4.2. Type(s):
 - 3.4.3.2.4.3. Cut-off initiation speed under full load (²): min⁻¹
 - 3.4.3.2.4.4. Maximum no-load speed (²): min⁻¹
 - 3.4.3.2.4.5. Idling speed (²): min⁻¹
- 3.4.3.3. Cold-start system
 - 3.4.3.3.1. Make(s):
 - 3.4.3.3.2. Type(s):
 - 3.4.3.3.3. Description:
- 3.4.4. Valve timing
 - 3.4.4.1. Maximum valve lift and opening and closing angles in relation to top dead centre or equivalent characteristics:

- 3.4.4.2. Reference clearances and/or setting range ⁽¹⁾:
- 3.4.5. Electronic control functions
- If the engine has electronic control functions, information concerning their performance must be supplied, and in particular:
- 3.4.5.1. Make:
- 3.4.5.2. Type:
- 3.4.5.3. Component number:
- 3.4.5.4. Location of electronic control unit
- 3.4.5.4.1. Components detected:
- 3.4.5.4.2. Components controlled:
- 3.5. Fuel tank(s)
- 3.5.1. Number, capacity, materials:
- 3.5.2. Drawing, photograph or description clearly indicating the position of the tank(s):
- 3.5.3. Reserve fuel tank(s)
- 3.5.3.1. Number, capacity, materials:
- 3.5.3.2. Drawing, photograph or description clearly indicating the position of the tank(s):
- 3.6. Rated power: kW at min⁻¹ at standard setting (in accordance with European Parliament and Council Directive 97/68/EC (OJ L 59, 27.2.1998, p. 1))
- 3.6.1. Power at the power take-off (PTO), (in accordance with code 1 or 2 of the OECD or ISO 789-10), if any, at the rated speed(s)
- | Rated speed PTO
(min ⁻¹) | Corresponding engine speed
(min ⁻¹) | Power
(kW) |
|---|--|---------------|
| 1-540 | | |
| 2-1 000 | | |
- 3.7. Maximum torque: N.m at min⁻¹ (according to Directive 97/68/EC)
- 3.8. Other traction engines or motors (spark ignition, etc.), or combinations thereof (characteristics of components):
- 3.9. Air filter
- 3.9.1. Make(s):
- 3.9.2. Type(s):
- 3.9.3. Average depression at maximum power ⁽²⁾: kPa
- 3.10. Exhaust system
- 3.10.1. Description and diagrams:
- 3.10.2. Make(s):

- 3.10.3. Type(s):
- 3.11. Electrical system
- 3.11.1. Nominal voltage, positive/negative earth ⁽¹⁾ V
- 3.11.2. Generator
- 3.11.2.1. Type:
- 3.11.2.2. Rated power: VA
- 4. TRANSMISSION ⁽¹⁵⁾
- 4.1. Diagram of the transmission system:
- 4.2. Type (mechanical, hydraulic, electric, etc.):
- 4.2.1. Brief description of the electrical/electronic components (if any):
- 4.3. Engine flywheel moment of inertia:
- 4.3.1. Additinal moment of inertia if no gear is engaged:
- 4.4. Clutch (type) (if any):
- 4.4.1. Maximum torque conversion (if any):
- 4.5. Gearbox (type, direct engagement, method of control) (if any):
- 4.6. Gear ratios (if any) with or without transfer box ⁽¹⁶⁾

| Gear | Gearbox ratio | Transfer-box ratio(s) | Final drive ratio | Overall gear ratio |
|---------------------|---------------|-----------------------|-------------------|--------------------|
| Maximum for CVT (*) | | | | |
| 1 | | | | |
| 2 | | | | |
| 3 | | | | |
| Minimum for CVT (*) | | | | |
| Reverse | | | | |
| 1 | | | | |
| ... | | | | |

(*) Continuously variable transmission.

- 4.6.1. Maximum dimensions of tyres on powered axles:
- 4.7. Calculated maximum tractor design speed in top gear (show factors used in calculation) ⁽¹⁶⁾: km/h
- 4.7.1. Measured maximum speed: km/h
- 4.8. Actual forward movement of powered wheels corresponding to one complete revolution:
- 4.9. Speed governor: yes/no ⁽¹⁾
- 4.9.1. Description:
- 4.10. Speedometer, tachometer and hour meter (if fitted)

- 4.10.1. Speedometer (if fitted)
 - 4.10.1.1. Method of operation and description of drive mechanism:
 - 4.10.1.2. Instrument constant:
 - 4.10.1.3. Measuring mechanism tolerance:
 - 4.10.1.4. Overall transmission ratio:
 - 4.10.1.5. Design of the instrument dial or of the other forms of read-out:
 - 4.10.1.6. Brief description of the electrical/electronic components:
- 4.10.2. Tachometer and hour meter (if fitted): yes/no ⁽¹⁾
- 4.11. Differential lock (if fitted): yes/no ⁽¹⁾
- 4.12. Power take-off(s) (revolutions per minute and ratio of this figure to that of the engine) (number, type and position)
 - 4.12.1. Main power take-off(s):
 - 4.12.2. Other(s):
 - 4.12.3. Power take-off guard(s) (description, dimensions, photographs):
- 4.13. Protection of engine parts, projecting parts and wheels (descriptions, drawings, sketches, photographs)
 - 4.13.1. Single surface protection:
 - 4.13.2. Multi-surface protection:
 - 4.13.3. Protection by total encapsulation:
- 4.14. Brief description of the electrical/electronic components (if any):
- 5. AXLES
 - 5.1. Description of each axle:
 - 5.2. Make (where appropriate):
 - 5.3. Type (where appropriate):
- 6. SUSPENSION (where appropriate)
 - 6.1. Extreme (maximum-minimum) tyre/wheel combinations (if any) (dimensions, characteristics, inflation pressure for road use, maximum permissible load, wheel dimensions and front/rear combinations):
 - 6.2. Type of suspension (if fitted) for each axle or wheel:
 - 6.2.1. Level adjustment: yes/no/optional ⁽¹⁾
 - 6.2.2. Brief description of the electrical/electronic components (if any):
 - 6.3. Other devices (if any):
- 7. STEERING (descriptive diagram)
 - 7.1. Steering category: manual/power-assisted/servo steering ⁽¹⁾
 - 7.1.1. Reversible driving position (description):

- 7.2. Transmission and control
- 7.2.1. Type of steering transmission (specify for front and rear, if applicable):
- 7.2.2. Linkage to the wheels (including other than mechanical means; specify for front and rear, if applicable):
- 7.2.2.1. Brief description of the electrical/electronic components (if any):
- 7.2.3. Method of power assistance, if any:
- 7.2.3.1. Method and diagram of operation, make(s) and type(s):
- 7.2.4. Diagram of the steering equipment as a whole, showing the position on the tractor of the various devices influencing its steering behaviour:
- 7.2.5. Schematic diagram(s) of the steering control(s):
- 7.2.6. Range and method of adjustment, if any, of the steering control:
- 7.3. Maximum turning angle of the wheels (if fitted):
- 7.3.1. To the right: degrees Number of steering wheel turns:
- 7.3.2. To the left: degrees Number of steering wheel turns:
- 7.4. Minimum turning circle (without braking) ⁽¹⁷⁾:
- 7.4.1. To the right: mm
- 7.4.2. To the left: mm
- 7.5. Method of adjustment of the steering control (where applicable):
- 7.6. Brief description of the electrical/electronic components (if any):
8. BRAKES (overall sketch and operating sketch) ⁽¹⁸⁾
- 8.1. Service braking system:
- 8.2. Secondary braking system (if fitted):
- 8.3. Parking brake:
- 8.4. Any additional braking device(s) (and especially retarder):
- 8.5. For tractors with anti-lock brake systems, description of system operation (including any electronic parts), electric block diagram, hydraulic or pneumatic circuit plan:
- 8.6. List of braking-system components, properly identified:
- 8.7. Dimensions of the largest permissible tyres on the brakes axles:
- 8.8. Calculation for the braking system (determination of the ratio of the total braking forces at the circumference of the wheels to the force applied to the braking control):
- 8.9. Locking of left and right braking controls:
- 8.10. External energy source(s) (if any)
- (characteristics, capacity of energy reservoirs, maximum and minimum pressure, pressure gauge and minimum-pressure warning device on the dashboard, vacuum reservoirs and supply valve, supply compressors, compliance with provisions regarding pressure equipment):

- 8.11. Tractors fitted with trailer braking devices
 - 8.11.1. Trailer-brake actuating device (description, characteristics):
 - 8.11.2. Mechanical/hydraulic/pneumatic coupling ⁽¹⁾
 - 8.11.3. Connectors, couplings, safety devices (description, drawing, sketch):
 - 8.11.4. Single- or two-line connections ⁽¹⁾
 - 8.11.4.1. Supply overpressure (1 line): kPa
 - 8.11.4.2. Supply overpressure (2 line): kPa
- 9. FIELD OF VISION, GLAZING, WINDSCREEN WIPERS AND REAR-VIEW MIRRORS
 - 9.1. Field of vision
 - 9.1.1. Drawing(s) or photograph(s) showing the position of parts in the forward field of vision:
 - 9.2. Glazing
 - 9.2.1. Data for quick identification of reference point:
 - 9.2.2. Windscreen(s)
 - 9.2.2.1. Material(s) used:
 - 9.2.2.2. Method of fitting:
 - 9.2.2.3. Rake angle(s): degrees
 - 9.2.2.4. Component type-approval mark(s):
 - 9.2.2.5. Windscreen accessories and their location and concise description of any electrical/electronic components:
 - 9.2.3. Other window(s)
 - 9.2.3.1. Position(s):
 - 9.2.3.2. Material(s) used:
 - 9.2.3.3. Component type-approval mark(s):
 - 9.2.3.4. Brief description of the electrical/electronic components (if fitted) of the side-window operating mechanism:
 - 9.3. Windscreen wipers: yes/no ⁽¹⁾ (description, number, frequency of operation):
 - 9.4. Rear-view mirror(s)
 - 9.4.1. Class(es):
 - 9.4.2. Component type-approval mark(s):
 - 9.4.3. Position(s) in relation to tractor structure (drawings):
 - 9.4.4. Fixing method(s):
 - 9.4.5. Optional equipment that might restrict the field of vision to the rear:
 - 9.4.6. Brief description of the electrical/electronic components (if fitted) of the adjusting system:
 - 9.5. Defrosting and demisting:
 - 9.5.1. Technical description:

| | | |
|-----------|---|----------|
| 10. | ROLL-OVER PROTECTIVE STRUCTURES, WEATHER PROTECTION, SEATS, LOAD PLATFORMS | |
| 10.1. | Roll-over protective structures (dimensioned drawings, photographs (where appropriate), description): | .. |
| 10.1.1. | Frame(s) | |
| 10.1.1.1. | Trademark(s): | ..... |
| 10.1.1.2. | Component type-approval mark(s): | ..... |
| 10.1.1.3. | Internal and external dimensions: | ..... |
| 10.1.1.4. | Material(s) and method of construction: | ..... |
| 10.1.2. | Cab(s) | |
| 10.1.2.1. | Trademark(s): | ..... |
| 10.1.2.2. | Component type-approval mark(s): | ..... |
| 10.1.2.3. | Doors (number, dimensions, direction of opening, latches and hinges): | ..... |
| 10.1.2.4. | Windows and emergency exit(s) (number, dimensions, positions): | ..... |
| 10.1.2.5. | Other weather protection arrangements (description): | ..... |
| 10.1.2.6. | Internal and external dimensions: | ..... |
| 10.1.3. | Roll bar(s) mounted and front/rear ⁽¹⁾ , fold-down or not ⁽¹⁾ | |
| 10.1.3.1. | Description (position, fixing, etc.): | ..... |
| 10.1.3.2. | Trade mark(s) or name(s): | ..... |
| 10.1.3.3. | Component type-approval mark(s): | ..... |
| 10.1.3.4. | Dimensions: | ..... |
| 10.1.3.5. | Material(s) and method of construction: | ..... |
| 10.2. | Operating space and access to driving cab (description, characteristics, or dimensioned drawings): | ..... |
| 10.3. | Seats and footrests | |
| 10.3.1. | Driving seat(s) (drawings, photographs, description): | ..... |
| 10.3.1.1. | Trade mark(s) or name(s): | ..... |
| 10.3.1.2. | Component type-approval mark(s): | ..... |
| 10.3.1.3. | Seat type category: category A class I/II/III, category B ⁽¹⁾ | |
| 10.3.1.4. | Position and main characteristics: | ..... |
| 10.3.1.5. | Adjustment system: | ..... |
| 10.3.1.6. | Displacement and locking system: | ..... |
| 10.3.2. | Passenger seats (number, dimensions, position and characteristics): | ..... |
| 10.3.3. | Footrests (number, dimensions and positions): | ..... |
| 10.4. | Load platform | |
| 10.4.1. | Dimensions: | mm |
| 10.4.2. | Position: | ..... |
| 10.4.3. | Technically permissible load: | kg |

- 10.4.4. Distribution of load among the axles: kg
- 10.5. Suppression of radio interference
- 10.5.1. Description and drawings/photographs of the shapes and constituent materials of the part of the body forming the engine compartment and adjacent parts of the passenger compartment:
- 10.5.2. Drawings or photographs of the position of the metal components housed in the engine compartment (e.g. heating appliances, spare wheel, air filter, steering mechanism, etc.):
- 10.5.3. Table and drawing of radio interference control equipment:
- 10.5.4. Particulars of the nominal value of the direct current resistances, and in the case of resistive ignition cables, of their nominal resistance per metre:
11. LIGHTING AND LIGHT-SIGNALLING DEVICES (dimensioned sketches of the exterior of the tractor showing the position of the illuminating surface of all devices; number, wiring, type-approval mark and colour of lights)
- 11.1. Compulsory devices
- 11.1.1. Dipped-beam headlamps:
- 11.1.2. Front position (side) lamps:
- 11.1.3. Rear position lamps:
- 11.1.4. Direction indicator lamps:
 — front:
 — rear:
 — side:
- 11.1.5. Rear reflex reflectors:
- 11.1.6. Rear registration plate lamps:
- 11.1.7. Stop lamps:
- 11.1.8. Hazard-warning device:
- 11.2. Optional devices
- 11.2.1. Main-beam headlamps:
- 11.2.2. Front fog lamps:
- 11.2.3. Rear fog lamps:
- 11.2.4. Reversing lamps:
- 11.2.5. Work lamps:
- 11.2.6. Parking lamps:
- 11.2.7. End-outline marker lamps:
- 11.2.8. Warning light(s) for trailer direction indicator lamps:
- 11.3. Brief description of electrical/electronic components other than lamps (if any):
12. MISCELLANEOUS
- 12.1. Audible warning device(s) (position):

- 12.1.1. Component type-approval mark(s):
- 12.2. Mechanical couplings between tractor and towed vehicles
- 12.2.1. Type(s) of coupling:
- 12.2.2. Trademark(s):
- 12.2.3. Component type-approval mark(s):
- 12.2.4. Device designed for a maximum horizontal load of kg; and for a maximum vertical load (if any) of kg ⁽¹⁹⁾
- 12.3. Hydraulic lift: three-point coupling: yes/no ⁽¹⁾
- 12.4. Power connection for lighting and light-signalling devices on trailer (description):
- 12.5. Installation, location, functioning and marking of controls (description, photographs or diagrams):
- 12.6. Location of rear registration plate (shape and dimensions):
- 12.7. Front coupling device (dimensioned drawing):
- 12.8. Description on the on-board electronics used for the operation and control of the vehicle-mounted or towed implements:

Notes

- ⁽¹⁾ Delete if not applicable.
- ⁽²⁾ Give the tolerance.
- ⁽³⁾ If a part has been type-approved, that part need not be described if reference is made to such approval. Similarly, a part need not be described if its construction is clearly apparent from the attached diagrams or drawings.
State the numbers of the corresponding annexes for each heading where photographs or drawings must be attached.
- ⁽⁴⁾ Classification according to the definitions set out in Annex II.
- ⁽⁵⁾ Standards ISO 612 — 1978 and 1176 — 1990.
- ⁽⁶⁾ The mass of the driver shall be assumed to be 75 kg. 'Tools' means 'Tool box'.
- ⁽⁷⁾ Standard ISO 612 — 1978 (item 6.4).
- ⁽⁸⁾ Standard ISO 4004 — 1983.
- ⁽⁹⁾ Standard ISO 612 — 1978 (item 6.1).
- ⁽¹⁰⁾ Standard ISO 612 — 1978 (item 6.2).
- ⁽¹¹⁾ Standard ISO 612 — 1978 (item 6.3).
- ⁽¹²⁾ Standard ISO 612 — 1978 (item 6.6).
- ⁽¹³⁾ Standard ISO 612 — 1978 (item 6.7).
- ⁽¹⁴⁾ Standard ISO 612 — 1978 (item 8).
- ⁽¹⁵⁾ The information requested should be supplied for all possible variants.
- ⁽¹⁶⁾ A 5 % tolerance is permitted. This provision must be based on a measured speed not exceeding 43 km/h, including the tolerance of 3 km/h (See Commission Directive 98/89/EC (OJ L 322, 1.12.1998, p. 40)).
- ⁽¹⁷⁾ Standard ISO 789/3 — 1993.
- ⁽¹⁸⁾ The following particulars are to be given for each braking device:
- type and character of brakes (dimensioned sketch) (drums or discs, etc., braked wheels, transmission to those wheels, friction surfaces, their properties and effective areas, radius of drums, shoes or discs, weight of drums and adjustment devices),
 - transmission and control (attach diagram) (construction, adjustment, lever ratios, accessibility of control and its position, ratchet controls in the case of mechanical transmission, characteristics of the main parts of the transmission, control cylinders and pistons, brake cylinders).
- ⁽¹⁹⁾ Values in respect of the mechanical strength of the coupling device.
- ⁽²⁰⁾ In the case of applications involving more than one parent engine, a separate form should be submitted for each one.

MODEL B**Simplified information document for the purposes of EC tractor type-approval**

Part I

Model B is to be used where one or more type-approval or component type-approval certificates issued pursuant to separate directives are available.

The numbers of the relevant type-approval or component type-approval certificates must be given in the table in Part III.

The information referred to in Annex III (certificate of conformity) must be provided for each of chapters 1-12 below and for each type/variant/version of tractor.

Where no type-approval or component type-approval certificate issued pursuant to a separate directive is available, the information referred to in model A of the information document must also be provided for the corresponding chapters.

0. GENERAL
 - 0.1. Make(s) (trade mark registered by the manufacturer):
 - 0.2. Type (specify any variants and versions):
 - 0.2.1. Trade name(s) (where appropriate):
 - 0.3. Manufacturer's type coding if marked on the tractor
 - 0.3.1. Manufacturer's plate (location and method of affixing):
 - 0.3.2. Chassis identification number (location):
 - 0.4. Category of tractor⁽¹⁾:
 - 0.5. Name and address of manufacturer:
 - 0.7. In the case of components or separate technical units, location and method of affixing the EC approval mark:
 - 0.8. Name(s) and address(es) of assembly plant(s):
1. GENERAL CONSTRUCTION CHARACTERISTICS OF THE TRACTOR
(attach 3/4 front and 3/4 rear photographs or drawings of a representative version, and a dimensioned drawing of the entire tractor)
2. MASSES AND DIMENSIONS
3. ENGINE
4. TRANSMISSION
5. AXLES
6. SUSPENSION
7. STEERING
8. BRAKES
9. FIELD OF VISION, GLAZING, WINDSCREEN WIPERS AND REAR-VIEW MIRROR
10. ROLL-OVER PROTECTION STRUCTURE, WEATHER PROTECTION, SEATS, LOAD PLATFORM
11. LIGHTING AND LIGHT SIGNALLING DEVICES
12. MISCELLANEOUS

⁽¹⁾ Classification according to the definitions set out in Annex II.

Part II

Table summarising the authorised combinations in the various versions of those items in Part I for which there are multiple entries. Each entry for each of these components is to receive a letter which will identify the entry or entries in the table concerning a specific component or components that can apply to a specific version.

A separate table is to be drawn up for each variant of the type.

Multiple entries subject to no restriction as regards their combination within a variant shall be entered in the 'All versions' column.

| Item No | All versions | Version 1 | Version 2 | etc. | Version 'n' |
|---------|--------------|-----------|-----------|------|-------------|
| | | | | | |

This information may be presented in an alternative format or layout so long as the original purpose is fulfilled.

Each variant and version shall be identified by a numerical or alphanumerical code, which must also be entered on the certificate of conformity (Annex III) of the tractor concerned.

Part III

Typ-approval numbers relating to the separate directives

Supply the information requested below in the aspects ⁽¹⁾ applying to the tractor.

For the purposes of EC type-approval, all the type-approval or component type-approval certificates concerned (together with their annexes) must be included and presented to the approval authorities.

| Purpose | EC-type-approval or component type-approval number | Date of type-approval or component type-approval | Type(s), variant(s), version(s) covered |
|-----------------------------------|--|--|---|
| <i>Example</i> Braking devices | E1*76/432*97/54*0026*00 E4*76/432*97/54*0039*00 | 3.2.2000 1.3.2000 | MF/320/U MF/320/F |

Signature:

Position within organisation:

Date:

⁽¹⁾ Information which appears on the relevant installation approval certificate need not be repeated here.

ANNEX II

CHAPTER A

Definition of tractor categories and types

1. THE TRACTOR CATEGORIES ARE DEFINED AS FOLLOWS:

- Category T₁: wheeled tractors with a maximum design speed of not more than 40 km/h, with at least one axle having a minimum track width of not less than 1 150 mm, with an unladen mass, in running order, of more than 600 kg, and with a ground clearance of not more than 1 000 mm.
- Category T₂: wheeled tractors with a maximum design speed of not more than 40 km/h, with a minimum track width of less than 1 150 mm, with an unladen mass, in running order, of more than 600 kg and with a ground clearance of not more than 600 mm. However, where the height of the centre of gravity of the tractor ⁽¹⁾ (measured in relation to the ground) divided by the average minimum track for each axle exceeds 0,90, the maximum design speed is restricted to 30 km/h.
- Category T₃: wheeled tractors with a maximum design speed of not more than 40 km/h, and with an unladen mass, in running order, of not more than 600 kg.
- Category T₄: other wheeled tractors with a maximum design speed of not more than 40 km/h (as defined in Appendix 1).

2. THE TYPE OF TRACTOR IS DEFINED AS FOLLOWS:

“type” means tractors of the same category that are identical in respect of at least the following essential aspects:

- manufacturer,
- manufacturer's type designation,
- essential construction and design characteristics:
 - backbone chassis/chassis with side members/articulated chassis (obvious and fundamental differences),
 - engine (internal combustion/electric/hybrid),
 - axles (number),

“variant” means tractors of the same type identical in respect of at least the following aspects:

- engine:
 - operating principle,
 - number and arrangement of cylinders,
 - power difference of no more than 30 % (the highest power being no more than 1,3 times the lowest power),
 - cylinder capacity difference of no more than 20 % (the highest figure being no more than 1,2 times the lowest figure),
- powered axles (number, position, interconnection),
- steered axles (number and position),
- maximum laden mass differing by no more than 10 %,
- transmission (type),
- roll-over protection structure,
- braked axles (number),

“version” of a variant means tractors which consist of a combination of items shown in the information package in accordance with Annex I.

⁽¹⁾ In accordance with ISO standard 789, part 6.

CHAPTER B

List of requirements for the purposes of EC tractor type approval

PART I

List of separate Directives

(As appropriate, taking account of the scope and latest amendments to each of the following separate Directives)

| No | Subject | Basic Directive and Annex | Official Journal (OJ) L | Applicability (for T4 see Appendix 1) | | |
|------|--|---------------------------|-------------------------|--|----|----|
| | | | | T1 | T2 | T3 |
| 1.1 | Maximum laden mass | 74/151/EEC I | 84, 28.3.1974, p. 25 | X | X | X |
| 1.2 | Registration plate | 74/151/EEC II | — | X | X | X |
| 1.3 | Fuel tank | 74/151/EEC III | — | X | X | X |
| 1.4 | Ballast masses | 74/151/EEC IV | — | X | X | X |
| 1.5 | Audible warning device | 74/151/EEC V | — | X | X | X |
| 1.6 | Sound leel (external) | 74/151/EEC VI | — | X | X | X |
| 2.1 | Maximum speed | 74/152/EEC paragraph 1 | 84, 28.3.1974, p. 33 | X | X | X |
| 2.2 | Load platforms | 74/152/EEC paragraph 2 | — | X | X | X |
| 3.1 | Rear-view mirrors | 74/346/EEC | 191, 15.7.1974, p. 1 | X | X | X |
| 4.1 | Field of vision and windscreen wipers | 74/347/EEC | 191, 15.7.1974, p. 5 | X | X | X |
| 5.1 | Steering | 75/321/EEC | 147, 9.6.1975, p. 24 | X | X | X |
| 6.1 | Suppression of radio interference | 75/322/EEC | 147, 9.6.1975, p. 28 | X | X | X |
| 7.1 | Braking devices | 76/432/EEC | 122, 8.5.1976, p. 1 | X | X | X |
| 8.1 | Passenger seats | 76/763/EEC | 262, 27.9.1976, p. 135 | X | — | X |
| 9.1 | Sound levels (internal) | 77/311/EEC | 105, 28.4.1977, p. 1 | X | X | X |
| 10.1 | Roll-over protective structures (ROPS) | 77/536/EEC | 220, 29.8.1977, p. 1 | X | — | — |
| 11.1 | Diesel emissions (smoke) | 77/537/EEC | 220, 29.8.1977, p. 38 | X | X | X |
| 12.1 | Driving seat | 78/764/EEC | 255, 18.9.1978, p. 1 | X | X | X |
| 13.1 | Lighting installation | 78/933/EEC | 325, 20.11.1978, p. 16 | X | X | X |
| 14.1 | Lighting and light signalling devices | 79/532/EEC | 145, 13.6.1979, p. 16 | X | X | X |
| 15.1 | Coupling and reversing devices | 79/533/EEC | 145, 13.6.1979, p. 20 | X | X | X |
| 16.1 | ROPS (static testing) | 79/622/EEC | 179, 17.7.1979, p. 1 | X | — | — |

| No | Subject | Basic Directive and Annex | Official Journal (OJ) L | Applicability (for T4 see Appendix 1) | | |
|------|---|---------------------------|-------------------------|--|----|----|
| | | | | T1 | T2 | T3 |
| 17.1 | Operating space, access to the driving position | 80/720/EEC | 194, 28.7.1980, p. 1 | X | — | X |
| 18.1 | Power take-offs | 86/297/EEC | 186, 8.7.1986, p. 19 | X | X | X |
| 19.1 | Rear-mounted ROPS (narrow-track tractors) | 86/298/EEC | 186, 8.7.1986, p. 26 | — | X | — |
| 20.1 | Installation of the controls | 86/415/EEC | 240, 26.8.1986, p. 1 | X | X | X |
| 21.1 | Front-mounted ROPS (narrow-track tractors) | 87/402/EEC | 220, 8.8.1987, p. 1 | — | X | — |
| 22.1 | Dimensions and towable mass | 89/173/EEC I | 67, 10.3.1989, p. 1 | X | X | X |
| 22.2 | Glazing | 89/173/EEC III | — | X | X | X |
| 22.3 | Speed governor | 89/173/EEC II,1 | — | X | X | X |
| 22.4 | Protection of drive components | 89/173/EEC II,2 | — | X | X | X |
| 22.5 | Mechanical linkages | 89/173/EEC IV | — | X | X | X |
| 22.6 | Registration plate | 89/173/EEC V | — | X | X | X |
| 22.7 | Trailer-brake coupling | 89/173/EEC VI | — | X | X | X |
| 23.1 | Pollutant emissions | 2000/25/EC | 173, 12.7.2000, p. 1 | X | X | X |

X = Directive applicable as it is.
 — = Not applicable.

PART II

In the following table, the technical requirements of the separate directives relating to motor vehicles (in the latest version in force) may be used applied in place of those of the corresponding directives relating to agricultural tractors.

| Number given in the table in Part I and subject of the Directive relating to agricultural tractors | | Number of the basic Directive relating to motor vehicles | Official Journal L |
|--|--------------------------------------|--|------------------------|
| 1.5. | Audible warning device | 70/388/EEC | 329, 25.11.1982, p. 31 |
| 1.6. | (External) sound levels | 70/157/EEC | 42, 23.2.1970, p. 16 |
| 4.1. | Field of vision and windscreen wiper | 77/649/EEC | 284, 10.10.1978, p. 11 |
| 5.1. | Steering | 70/311/EEC | 133, 18.6.1970, p. 10 |
| 6.1. | Suppression of radio interference | 72/245/EEC | 152, 6.7.1972, p. 15 |
| 7.1. | Braking devices | 71/320/EEC | 202, 6.9.1971, p. 37 |
| 11.1. | Diesel emissions (smoke) | 72/306/EEC | 190, 20.8.1972, p. 1 |
| 14.1. | Rear reflex reflectors | 76/757/EEC | 262, 27.9.1976, p. 32 |
| 14.1. | Rear lamps | 76/758/EEC | 262, 27.9.1976, p. 54 |
| 14.1. | Direction indicator | 76/759/EEC | 262, 27.9.1976, p. 71 |
| 14.1. | Number plate illumination | 76/760/EEC | 262, 27.9.1976, p. 85 |
| 14.1. | Headlights | 76/761/EEC | 262, 27.9.1976, p. 96 |
| 14.1. | Dipped-beam headlamps | 76/761/EEC | — |
| 14.1. | Front fog lamps | 76/762/EEC | 262, 27.9.1976, p. 122 |
| 14.1. | Rear fog lamps | 77/538/EEC | 220, 29.8.1977, p. 60 |
| 14.1. | Reversing lamps | 77/539/EEC | 220, 29.8.1977, p. 72 |
| 22.2. | Safety glazing | 92/22/EEC | 129, 14.5.1992, p. 11 |
| 23.1. | Pollutant emissions | 88/77/EEC | 36, 9.2.1988, p. 33 |

Appendix 1

Part I

Definition of T4 tractors and conditions of use

1. T4 tractors

1.1. T4.1 High-clearance tractors:

Tractors designed for working with high-growing crops e.g. vines. They feature a raised chassis or section of chassis, enabling them to advance in parallel with the crop with left and right wheels on either side of one or more rows of the crop. They are intended for carrying or operating tools, which may be fitted at the front, between the axles, at the rear or on a platform. When the tractor is in working position the ground clearance perpendicular to the crop rows exceeds 1 000 mm. Where the height of the centre of gravity of the tractor⁽¹⁾ (measured in relation to the ground, using the tyres normally fitted), divided by the average minimum track of all of the axles exceeds 0,90, the maximum design speed must not exceed 30 km/h.

1.2. T4.2 Extra-wide tractors:

Tractors characterised by their large dimensions, primarily intended for working large areas of farmland.

⁽¹⁾ In accordance with ISO standard 789, part 6.

Part II

Applicability of the separate Directives to T4 tractors

| No | Subject | Directive and Annex | Applicability | |
|------|---|---------------------------|---------------|------|
| | | | T4.1 | T4.2 |
| 1.1 | Maximum laden mass | 74/151/EEC I | X | (X) |
| 1.2 | Registration plate | 74/151/EEC II | X | X |
| 1.3 | Fuel tank | 74/151/EEC III | X | X |
| 1.4 | Ballast masses | 74/151/EEC IV | X | X |
| 1.5 | Audible warning device | 74/151/EEC V | X | X |
| 1.6 | Sound level (external) | 74/151/EEC VI | X | X |
| 2.1 | Maximum speed | 74/152/EEC paragraph 1 | X | X |
| 2.2 | Load platforms | 74/152/EEC paragraph 2 | (X) | X |
| 3.1 | Rear-view mirrors | 74/346/EEC | (X) | X |
| 4.1 | Field of vision and windscreen wipers | 74/347/EEC | (X) | (X) |
| 5.1 | Steering | 75/321/EEC | X | X |
| 6.1 | Suppression of radio interference | 75/322/EEC | X | X |
| 7.1 | Braking devices | 76/432/EEC | (X) | X |
| 8.1 | Passenger seats | 76/763/EEC | X | X |
| 9.1 | Sound levels (internal) | 77/311/EEC | X | X |
| 10.1 | ROPS | 77/536/EEC | SD | X |
| 11.1 | Diesel emissions (smoke) | 77/537/EEC | X | X |
| 12.1 | Driving seat | 78/764/EEC | (X) | X |
| 13.1 | Lighting installation | 78/933/EEC | (X) | (X) |
| 14.1 | Lighting and light signalling devices | 79/532/EEC | X | X |
| 15.1 | Coupling and reversing devices | 79/533/EEC | (X) | X |
| 16.1 | ROPS (static testing) | 79/622/EEC | SD | X |
| 17.1 | Operating space, access to the driving position | 80/720/EEC | (X) | (X) |
| 18.1 | Power take-offs | 86/297/EEC | X | X |
| 19.1 | Rear-mounted ROPS (narrow-track tractors) | 86/298/EEC | — | — |
| 20.1 | Installation of the controls | 86/415/EEC | X | X |
| 21.1 | Front-mounted ROPS (narrow-track tractors) | 87/402/EEC | — | — |
| 22.1 | Dimensions and towable mass | 89/173/EEC I | (X) | (X) |
| 22.2 | Glazing | 89/173/EEC III | X | X |
| 22.3 | Speed governor | 89/173/EEC II, I | X | X |
| 22.4 | Protection of drive components | 89/173/EEC II,2 | (X) | X |

| No | Subject | Directive and Annex | Applicability | |
|------|------------------------|---------------------|---------------|------|
| | | | T4.1 | T4.2 |
| 22.5 | Mechanical linkages | 89/173/EEC IV | X | (X) |
| 22.6 | Registration plate | 89/173/EEC V | X | X |
| 22.7 | Trailer-brake coupling | 89/173/EEC VI | X | (X) |
| 23.1 | Pollution emissions | 2000/25/EC | X | X |

X = Directive applicable.

(X) = Directive applicable in amended form ⁽¹⁾.

DP = Requires separate directive.

— = Not applicable.

⁽¹⁾ For EC type-approval to be granted, the parentheses will have to be removed. Meanwhile, until the "second stage" revision of the framework Directive, once all requirements of individual directives have been met, including those required by a separate directive (SD) not yet drafted, an EC type-approval certificate may be granted.

APPENDIX 2

Procedures to be followed during EC tractor type-approval

1. In the case of an application made in accordance with Article 3 (Annex I, model B), the approval authority shall:
 - (a) check that the component type-approvals and type-approvals issued pursuant to the separate directives are applicable, and shall arrange for any tests and checks required by any of the separate directives not covered by such approvals to be carried out;
 - (b) make sure, by reference to the documentation, that the tractor specification(s) and data contained in part I of the tractor information document are included in the data in the information packages or the approval certificates for the relevant separate directive approvals and, when an item number in part I of the information document is not included in the information package for any of the separate directives, confirm that the relevant part or characteristic conforms to the particulars in the information folder;
 - (c) carry out or arrange to have carried out, on a selected sample of tractors from the type to be approved, inspections of tractor parts and systems to verify that the tractor(s) is/are built in accordance with the relevant data contained in the authenticated information package in respect of all separate directive approvals;
 - (d) carry out or arrange to have carried out relevant installation checks in respect of separate technical units where applicable.
2. The number of tractors to be inspected for the purposes of paragraph 1(c) shall be sufficient to permit the proper examination of the various combinations to be approved in accordance with the following criteria:
 - engine,
 - gearbox,
 - powered axles (number, position, interconnection),
 - steered axles (number and position),
 - braked axles (number),
 - roll-over protection structure.
3. In the case of an application made in accordance with Article 3 (Annex I, model A), the approval authority shall:
 - (a) arrange for the necessary tests and checks as required by each of the relevant separate directives;
 - (b) verify that the tractor conforms to the particulars in the tractor information folder and that it meets the technical requirements of each of the relevant separate directives;
 - (c) carry out or arrange to have carried out relevant installation checks in respect of separate technical units, where applicable.

CHAPTER C

EC tractor type-approval report

PART I

SPECIMEN: (maximum format: A4 (210 × 297 mm) or a folder of A4 format)

Stamp of administration

Communication concerning:

- approval ⁽¹⁾
- extension of approval ⁽¹⁾
- refusal to grant approval ⁽¹⁾
- withdrawal of approval ⁽¹⁾

of a type of tractor pursuant to Directive 74/150/EEC, as last amended by Directive .../.../EC

Typ-approval number:

Reason for extension:

0. GENERAL

0.1. Make(s) (registered by the manufacturer):

0.2. Type (specify any variants and versions):

0.2.1. Trade name(s) (where appropriate):

0.3. Means of identification of type, if marked on the tractor:

0.3.1. Manufacturer's plate (location and method of affixing):

0.3.2. Chassis identification number (location):

0.4. Category of tractor:

0.5. Manufacturer's name and address:

0.8. Name(s) and address(es) of assembly plant(s):

I the undersigned hereby certify the accuracy of the manufacturer's description in the appended information document concerning the tractor(s) described above and the applicability of the appended results to that type of tractor.

The type of tractor meets/does not meet ⁽¹⁾ the requirements of all of the relevant separate directives.

Type-approval is granted/refused/withdrawn ⁽¹⁾

..... (Place) (Date) (Signature)

Annexes: Information file (including Parts II and III (where appropriate) of the information document model B).

Test results

Name(s) and specimen(s) of the signature of the person(s) authorised to sign the certificates of conformity, and a statement as to his/their function within the organisation.

⁽¹⁾ Delete where not applicable.

PART II

Test results

(to be completed by the approval authority and attached to the tractor type-approval report)

1. *Results of the sound-level tests (74/151/EEC)*

Number of basic directive and most recent amendment applicable for type-approval. For a directive with two or more application phases, indicate which phase:

— Variant/version:

— Moving: dB(A) dB(A) dB(A)

— Stationary: dB(A) dB(A) dB(A)

— Engine speed: min⁻¹ min⁻¹ min⁻¹

2. *Results of the exhaust emission tests*

Number of basic directive and most recent amendment applicable for type-approval. For a directive with two or more application phases, indicate which phase:

— Variant/version:

1. Results

— CO: g/kWh g/kWh g/kWh

— HC: g/kWh g/kWh g/kWh

— NO_x: g/kWh g/kWh g/kWh

— Particulates: g/kWh g/kWh g/kWh

— Smoke: m⁻¹ m⁻¹ m⁻¹

2. Results ⁽¹⁾

— CO: g/kWh g/kWh g/kWh

— NO_x: g/kWh g/kWh g/kWh

— NMHC: g/kWh g/kWh g/kWh

— CH₄: g/kWh g/kWh g/kWh

— Particulates: g/kWh g/kWh g/kWh

3. *Driver-perceived sound level (77/311/EEC)*

Number of basic directive and most recent amendment applicable for type approval. For a directive with two or more application phases, indicate which phase:

— Variant/version: dB(A) dB(A) dB(A)

⁽¹⁾ Where applicable.

APPENDIX 1

Numbering system for EC type-approval reports

1. The approval number consists of four parts where complete tractors are approved and of five parts where systems, components and separate technical units are approved, in accordance with the requirements set out below. Components and separate technical units shall be marked in accordance with the provisions of the relevant separate directive. In all cases the sections are to be separated by an asterisk.

Section 1: a lower-case letter "e" followed by the distinguishing number of the Member State issuing the approval:

1 for Germany; 2 for France, 3 for Italy; 4 for the Netherlands; 5 for Sweden, 6 for Belgium, 9 for Spain; 11 for the United Kingdom; 12 for Austria; 13 for Luxembourg; 17 for Finland; 18 for Denmark; 21 for Portugal; 23 for Greece; 24 for Ireland.

Section 2: number of the base Directive.

Section 3: number of the latest amending directive that is applicable to the approval.

In the case of tractor approvals, this is the most recent directive that amends an Article(s) of Directive 74/150/EEC.

In the case of approvals under separate directives, this is the most recent directive containing specific provisions to which the system, component or separate technical unit is to conform.

Where a directive includes different dates of entry into force which refer to different technical standards a letter of the alphabet is to be added. This letter will identify the specific technical requirement on the basis of which approval has been granted.

Section 4: 4-digit sequential number (with leading zeros as applicable) to denote the base approval number. The sequence starts from 0001 for each base directive.

Section 5: 2-digit sequential number (with a leading zero if applicable) to denote the extension. The sequence shall start from 00 for each base approval number.

2. Where a tractor is approved, section 2 shall be omitted.
3. Section 5 is to be omitted solely from the statutory plate(s).
4. Example of a third system approval (that has so far received no extension) issued by France in respect of the Directive on working clearance and access:

e 2*80/720*88/414*0003*00

or

e 2*88/77*91/542A*0003*00

in the case of a directive involving two implementation stages, namely A and B.

5. Example of a second extension to a fourth tractor approval issued by the United Kingdom:

e 11*97/54*0004*02

in which case Directive 97/54/EC is the most recent Directive so far amending the Articles of Directive 74/150/EEC.

6. Example of the approval number stamped on the tractor's statutory plate(s):

e 11*97/54*0004

ANNEX III

EC CERTIFICATE OF CONFORMITY

PART I

MODEL: (maximum format: A4 (210 × 297 mm) or a folder of A4 format)

I the undersigned:
(full name)

hereby certify that the following tractor:

- 0.1. Make(s) (registered by the manufacturer):
- 0.2. Type (specify any variants and vesions):
- 0.2.1. Trade name(s) (where appropriate):
- 0.3. Manufacturer's type coding if marked on the tractor:
- 0.3.1. Manufacturer's plate (location and method of affixing):
- 0.3.2. Chassis identification number (loation):
- 0.4. Category of tractor:
- 0.5. Manufacturer's name and address:
- 0.6. Locations of the statutory plates:
- Tractor identification number:
- Numeric or alphanumeric identification code:

according to the type(s) of tractor described in the approval(s), corresponds in every respect to the type described in:

— Type-approval number:

— Date:

The tractor may be registered permanently, without requiring any further aprovals, for driving on the right/left (¹).

.....
(Place) (Date)

.....
(Signature) (Position)

1. GENERAL CONSTRUCTION CHARACTERISTICS OF THE TRACTOR

1.1. Number of axles and wheels:

of which

1.1.3. Powered axles:

1.1.4. Braked axles:

- 1.4. Reversible driving position: yes/no ⁽¹⁾
- 1.6. Tractor designed for driving on the: right/left ⁽¹⁾
- 2. MASSES AND DIMENSIONS
 - 2.1.1. Unladen mass(es) in running order:
 - maximum:
 - minimum:
 - 2.2.1. Maximum laden mass(es) of the tractor according to the tyre specification:
 - 2.2.2. Distribution of that mass (those masses) among the axles:
 - 2.2.3.1. Masse(es) and tyre(s):

| Axle No | Tyres (dimensions) | Load capacity | Technically permissible maximum mass on each axle | Maximum permissible vertical load on the coupling point |
|---------|--------------------|---------------|---|---|
| 1 | | | | |
| 2 | | | | |
| 3 | | | | |

- 2.3. Ballast masses: (total mass, material, number of components):
- 2.4. Technically permissible towable masses:
 - 2.4.1. Unbraked: kg
 - 2.4.2. With separate braking system: kg
 - 2.4.3. With inertia brakes: kg
 - 2.4.4. With assisted braking: kg
 - 2.4.5. Total mass of the tractor-trailer combination (for each configuration of trailer braking): kg
 - 2.4.6. Position of coupling point
 - 2.4.6.1. Height of the coupling point above the ground:
 - 2.4.6.1.1. Maximum: mm
 - 2.4.6.1.2. Minimum: mm
 - 2.4.6.2. Distance from the vertical plane passing through the axis of the rear axle: mm
- 2.5. Wheelbase: mm ⁽²⁾
- 2.6. Minimum and maximum track: / mm ⁽²⁾
- 2.7.1. Length: mm ⁽²⁾
- 2.7.2. Width: mm ⁽²⁾
- 2.7.3. Height: mm ⁽²⁾
- 3. ENGINE
 - 3.1.1. Make:
 - 3.1.3. Means of identification of type, method of the affixing, and location
 - 3.1.6. Operating principle:
 - spark/compression ignition ⁽¹⁾

- direct/indirect injection ⁽¹⁾
- two/four-stroke ⁽¹⁾

3.1.7. Fuel:

diesel/petrol/LPG/other ⁽¹⁾

3.2.1.2. Type-approval number:

3.2.1.6. Number of cylinders:

3.2.1.7. Engine displacement: cm³

3.6. Rated power: kW at min⁻¹ ⁽³⁾

3.6.1. Power at power take-off: kW ⁽³⁾ at min⁻¹ (rated speed PTO)

4. TRANSMISSION

4.5. Gearbox

Number of ratios:

- forward:
- reverse:

4.7. Calculated maximum design speed: km/h

4.7.1. Measured maximum speed: km/h

7. STEERING

7.1. Steering category: manual/power/servo steering ⁽¹⁾

8. BRAKING (brief description of the braking system):

8.11.4.1. Overpressure at coupling: (single-line): kPa

8.11.4.2. Overpressure at coupling: (two-line): kPa

10. ROLL-OVER PROTECTION STRUCTURE, SEAT, LOAD PLATFORM

10.1. Frame/cab ⁽¹⁾

- make(s):

| | |
|-------|-------|
| | |
|-------|-------|
- type-approval mark(s):

| | |
|-------|-------|
| | |
|-------|-------|

10.1.3. Roll-over hoop

- front/rear ⁽¹⁾
- fold-down/fixed ⁽¹⁾

- make(s):

| | |
|-------|-------|
| | |
|-------|-------|
- type-approval mark(s):

| | |
|-------|-------|
| | |
|-------|-------|

10.3.2. Passenger seat(s):

- Number:

- 10.4. Load platform
- 10.4.1. Dimensions: mm
- 10.4.3. Technically permissible load: kg

11. LIGHTING AND LIGHT-SIGNALLING DEVICES

- 11.2. Optional devices

12. MISCELLANEOUS

12.2. Mechanical coupling between the tractor and the trailer:

| | | |
|--|-------|-------|
| 12.2.1. Type: | ..... | ..... |
| 12.2.2. Make(s): | ..... | ..... |
| 12.2.3. Type-approval mark(s): | ..... | ..... |
| 12.2.4. Maximum horizontal load (kg) | ..... | ..... |
| Maximum vertical load (kg) (where appropriate) | ..... | ..... |

- 12.3. Hydraulic lift: three-point coupling: yes/no ⁽¹⁾

13. EXTERIOR SOUND LEVEL

Number of base directive and most recent amendment applicable for type approval. For a Directive with two or more application phases, indicate which phase:

- 13.1. stationary:dB(A)
- 13.2. moving:dB(A)

14. DRIVER-PERCEIVED SOUND LEVEL

Number of base directive and most recent amendment applicable for type approval. For a Directive with two or more application phases, indicate which phase:dB(A)

15. EXHAUST EMISSIONS ⁽²⁾

Number of basic directive and most recent amendment applicable for type approval. For a Directive with two or more application phases, indicate which phase:

15.1. Results of tests

CO: g/kWh HC: g/kWh NO_x: g/kWh
 Particulates: g/kWh Smoke ⁽³⁾: m⁻¹

15.2. Results of tests ⁽⁴⁾

CO: g/kWh NO_x: g/kWh NMHC: g/kWh
 CH₄: g/kWh Particulates: g/kWh

16. FISCAL HORSEPOWER(S) OR CLASS(ES)

- Italy: — France: — Spain:
- Belgium: — Germany: — Luxembourg:
- Denmark: — Netherlands: — Greece:
- United Kingdom: — Ireland: — Portugal:
- Austria: — Finland: — Sweden:

17. COMMENTS ⁽⁴⁾

.....

⁽¹⁾ Delete where not applicable.

⁽²⁾ State the minimum values.

⁽³⁾ State the test method used.

⁽⁴⁾ *Inter alia*, any information required with regard to the various optional areas or values an mutually dependent relationships (where appropriate, in the form of a table).

⁽⁵⁾ Where applicable.

—————

ANNEX II

ANNEX IIA

Information document No pursuant to Annex I to Directive 74/150/EEC relating to EC type-approval of an agricultural or forestry tractor concerning electromagnetic compatibility (75/322/EEC), as last amended by Directive 2000/2/EC

The following information, if applicable, must be supplied in triplicate and include a list of contents. Any drawings must be supplied in appropriate scale and in sufficient detail on size A4 or on a folder of A4 format. Photographs, if any, must show sufficient detail. Details must be provided of the working of any systems, components or technical units with electronic controls.

0. **General**

- 0.1. Make(s) (trade mark registered by the manufacturer):
- 0.2. Type (specify any variants and versions):
- 0.3. Means of identification of type, if marked on the vehicle:
 - 0.3.1. Manufacturer's plate (location and method of affixing):
- 0.4. Category of vehicle:
- 0.5. Name and address of manufacturer:
- 0.8. Name(s) and address(es) of assembly plant(s):

1. **General construction characteristics of the vehicle**

Photograph(s) and/or drawings of a representative vehicle:

- 1.2. Position and arrangement of the engine:

3. **Engine**

- 3.1.2. Type and commercial description of the parent engine (as marked on the engine or other means of identification):
- 3.1.4. Name and address of manufacturer:
- 3.1.6. Operating principle:
 - spark ignition/compression ignition ⁽¹⁾
 - direct injection/injection ⁽¹⁾
 - four stroke/two stroke ⁽¹⁾
- 3.2.1.6. Number and arrangement of cylinders:
- 3.2.1.9. Maximum torque: ... min⁻¹
- 3.2.3. Fuel feed:
 - 3.2.3.1. Feed pump:
 - Pressure ⁽²⁾ or characteristic diagram ... kPa

3.2.3.2. Injection system:

3.2.4.2.1. Description of system:

3.2.5. Electronic control functions:

Description of system:

3.11. Electrical system:

3.11.1. Nominal voltage ..., positive/negative earth ⁽¹⁾

3.11.2. Generator:

3.11.2.1. Type

3.11.2.2. Rated power: VA

4. **Transmission**

4.2. Type (mechanical, hydraulic, electric, etc.):

4.2.1. Brief description of the electrical/electronic components (if any):

6. **Suspension** (where appropriate)

6.2.2. Brief description of the electrical/electronic components (if any):

7. **Steering**

7.2.2.1. Brief description of the electrical/electronic components (if any):

7.2.6. Range and method of adjustment, if any, of the steering control:

8. **Brakes**

8.5. For tractors with anti-lock brake systems, description of system operation (including any electronic parts), electric block diagram, hydraulic or pneumatic circuit plan:

9. **Field of vision, glazing, windscreen wipers and rear-view mirrors**

9.2. Glazing:

9.2.3.4. Brief description of the electrical/electronic components (if fitted) of the side-window operating mechanism:

9.3. Windscreen wipers:

Technical description:

9.5. Defrosting and demisting:

9.5.1. Technical description:

9.4. Rear-view mirror(s) (position of each):

9.4.6. Brief description of the electrical/electronic components (if fitted) of the adjusting system:

10. **Roll-over protective structures, weather protection, seats, load platforms**
- 10.3. Seats and footrests:
- 10.3.1.4. Position and main characteristics:
- 10.3.1.5. Adjustment system:
- 10.3.1.6. Displacement and locking system:
- 10.5. Suppression of radio interference:
- 10.5.1. Description and drawings/photographs of the shapes and constituent materials of the part of the body forming the engine compartment and adjacent parts of the passenger compartment:
- 10.5.2. Drawings or photographs of the position of the metal components housed in the engine compartment (e.g. heating appliances, spare wheel, air filter, steering mechanism, etc.):
- 10.5.3. Table and drawing of radio interference control equipment:
- 10.5.4. Particulars of the nominal value of the direct current resistances, and in the case of resistive ignition cables, of their nominal resistance per metre:
11. **Lighting and light-signalling devices**
- 11.3. Brief description of electrical/electronic components other than lamps (if any):
12. **Miscellaneous**
- 12.8. Description of the on-board electronics used for the operation and control of the vehicle-mounted or towed implements:

⁽¹⁾ Delete as appropriate.

⁽²⁾ Indicate tolerance.'
