COUNCIL

DEcision of the Council

Amending the Decision Establishing the OECD Standard Codes for the Official Testing of Agricultural Tractors

(adopted by the Council on 15 December 1995 under the written procedure [CES/PE(95)19; C/M(95)21])
THE COUNCIL,

Having regard to Article 5 a) and c) of the Convention on the Organisation for Economic Co-operation and Development of 14 December 1960;

Having regard to the Decision of the Council of 24 November 1987 Establishing the OECD Standard Codes for the Official Testing of Agricultural Tractors [C(87)53(Final)], as amended [C(90)79(Final), C(91)20/FINAL, C(91)106/FINAL, C(92)52/FINAL, C(92)173/FINAL, C(93)52/FINAL, C(93)127/FINAL C(93)133/FINAL and C(95)17/FINAL];

On the proposal of the Committee for Agriculture;

DECIDES:

Annexes I, II, III, IV, V, VI, VII et VIII (Codes I, II, III, IV, V, VI, VII et VIII) to the Decision referred to above shall be amended as follows:

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Note: In the following text, page numbers refer to the following publications:


-- the technical document AGR/CA(92)11 for Code VIII.
A. AMENDMENT RELATING TO ENGINE TESTS

ANNEXES I and II (Codes I and II)

II. COMPULSORY TESTS

1. MAIN POWER TAKE-OFF

1.8 Engine tests made in addition to or in place of the main power take-off tests

The first paragraph shall read: (page 27 for Code I, page 79 for Code II)

In the case of tractors without power take-off or with a power take-off unable to transmit the full power of the engine, the engine must be tested. It shall be equipped with all the accessories, including the cowling, ...

B. AMENDMENT RELATING TO MINIMUM MASS REQUIREMENT FOR DYNAMIC TEST

ANNEX III (Code III)

FIELD OF APPLICATION

The first paragraph shall read: (page 114)

1. This OECD Standard Code is applicable to tractors having at least two axles for pneumatic tyred wheels with or without track attachments and with an unballasted tractor mass greater than 600 kg but generally less than 6 000 kg.

C. AMENDMENT RELATING TO THE NOISE MEASUREMENT AT THE DRIVING POSITION

ANNEX V (Code V)

The title of the Code shall read: (page 177)

OECD STANDARD CODE FOR THE OFFICIAL MEASUREMENT OF NOISE AT THE DRIVING POSITION(S) OF AGRICULTURAL AND FORESTRY TRACTORS

RULES AND DIRECTIONS

1. General regulations

1.3 Retesting

The first paragraph shall read: (page 181)

A testing station will "--" [Delete "only"] retest a tractor model if it has been modified so that its performance may be affected, its gearbox changed, another model of protective structure mounted or cab sound proofing materials changed, or seat reference point changed. If the name of the tractor or protective structure only has been changed, the testing station may certify that the test already reported applies to the new tractor or protective structure.
1.7. Checking power and speed specifications

Speed specifications and the power in the range of speed between rated engine speed and no-load engine speed (high idle) must be checked as specified in Figure 5.4.

The governor control lever should be set fully open. The p.t.o. power at rated engine speed shall be determined. The tractor shall operate for a period of 20 minutes subsequent to a sufficiently long warming-up period for the power to become stabilized. The power at rated engine speed shall be the average of at least five readings made during the 20-minute period. The power and the engine speed shall be noted and the flow rate of the injection pump (dm³/h) shall be measured. The measured no-load engine speed shall also be noted.

The power curve shall be checked, and adjusted if required, to ensure that the governor is operating within the speed range specified by the manufacturer.

The tolerance for rated engine speed shall be -0/+50 rpm and for the power values shall be ±5 per cent.
2. Test conditions

2.2 Conditions for measurement

Add at the end of 2.2 a new paragraph as follows: (page 183)

If the tractor has a reversible driving position, the test may be repeated in the reverse position.

Points 3 and 4 shall read as follows: (page 183)

3. Measurement method

During measurement the microphone diaphragm shall be facing forward. The microphone shall be placed so that its centre is 250 mm to the side of the median plane of the seat, on the side on which the higher noise level is encountered, and is 790 mm above and 150 mm forward of the seat reference point. The seat reference point shall be determined with the seat set at or as near as possible to the midpoint of its horizontal and vertical adjustment. Any suspension of the seat shall be depressed until the seat reaches the midpoint of its dynamic range. Excessive vibration of the microphone must be avoided.

If the tractor can be fitted with different seats, the noise levels at the corresponding microphone positions must be checked.

The governor control lever shall be set fully open. Where measurements are made under load, starting with no load, the load applied shall be increased until the maximum sound level is found. After each increase of load, time will be allowed for the sound level to stabilize before taking the measurement. Load conditions must be such that the engine is under the control of the governor.

4. Sound level test

Sound level measurements shall be made:

-- with the drawbar pull for which the tractor gives the maximum sound level, in each forward gear, recording the corresponding engine speeds;

-- without load at the drawbar, in the gear giving the nearest nominal forward speed to 7.5 km/h and in top gear, recording the corresponding engine speeds.

The nominal speed is defined as the nominal travel speed at the rated speed of the engine calculated with the dynamic radius index of the tyres.

Results shall be given in dB(A) and reported as follows:

-- maximum sound level in the loaded gear giving the nearest nominal speed to 7.5 km/h and also in any gear giving a sound level at least 1 dB(A) greater "--".
-- sound level without load in the gear giving the nearest nominal forward speed to 7.5 km/h;

-- maximum sound level without load in the gear giving the maximum forward speed.

In the case of measurements on a 4 WD tractor, the sound level shall be measured both with the front axle engaged and disengaged.

If there is a 2 WD version, and if the manufacturer so wishes, he can have only the 4 WD version tested and asked for an extension of validity of the measurements to the 2 WD version. The sound level assigned to the 2 WD version will be the higher of the two measurements recorded with and without the front axle engaged.

If there is a reverse driving position, the noise test may be repeated in the reverse position, in accordance with present section 4, subject to the manufacturer's instructions for driving in the reverse position as stated in the handbook.

If different seats can be fitted, a single noise test report can be issued to cover all the different seats. The maximum value obtained for the different seats must be reported. The list of different seats that can be fitted, their seat reference point positions and the seat fitted for the noise test must be included in the report.

Alternatively, separate noise test reports can be issued for each different seat with corresponding noise levels.

SPECIMEN TEST REPORT

. Add to the top of the list: (page 184)

" - Name and address of tractor manufacturer: "

2.4 Tractor seat

. The third indent "- Make/model/type of optional seats ..." shall be replaced by the following paragraph: (page 185)

The alternative seats ............... (description seat 1) ............... (description seat 2) ............... etc., have significantly different positions of seat reference points and therefore different microphone positions from the seat tested. The assigned values are the maximum values measured for the different seat reference points.

2.7 Engine settings

. Change wording in the table: (page 185)

"PTO power at rated engine speed" shall replace "Maximum PTO power".
IV. TEST RESULTS

The table shall read: (page 187)

<table>
<thead>
<tr>
<th>Gear number</th>
<th>Drawbar pull</th>
<th>Engine speed</th>
<th>Measured travelling speed</th>
<th>4WD version front axle</th>
<th>Extension to 2WD version</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>kN</td>
<td>rev/min</td>
<td>km/h</td>
<td>dB(A)</td>
<td>dB(A)</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

4.1 Unloaded test in the gear giving the forward speed nearest to 7.5 km/h:
4.1.1 All openings closed (compulsory test)

4.1.2 All openings open (optional test)

4.2 Unloaded test in the gear giving the maximum forward speed:
4.2.1 All openings closed (compulsory test)

4.3 Tests with the drawbar pull for which the tractor gives the maximum sound level (combination of gear giving the nearest nominal forward speed to 7.5 km/h and also in any gear with a sound level increase of at least 1 dB(A)):

4.3.1 All openings closed (compulsory test)

4.3.2 All openings open (optional test)

Nota Bene: the assigned values are the maximum values measured for the different seat reference points
D. AMENDMENT RELATING TO THE LABELLING OF THE PROTECTIVE STRUCTURE

ANNEXES III, IV, VI, VII and VIII (Codes III, IV, VI, VII and VIII)

- Add the paragraph below:
  -- to Code VI, page 34, as point "4.3 LABELLING"
  -- to Code VII, page 72, as point "3.3 LABELLING"

- Replace with the paragraph below:
  -- in Code III, page 134, paragraph "9. Labelling"
  -- in Code IV, page 169, paragraph "12. Labelling"
  -- in Code VIII, page 13, paragraph "6. Labelling"

The text under this heading shall read:

(LABELLING)

"OECD labelling is optional. If it is utilised, it shall contain at least the following information:

.1 Name and address of the manufacturer of the protective structure;

.2 Protective structure identification number (design or serial number);

.3 Tractor make, model(s) or series number(s) that the protective structure is designed to fit;

.4 OECD Approval number of protective structure.

The label shall be durable and permanently attached to the protective structure so that it can be easily read and it shall be protected from environmental damage."