

AGREEMENT

CONCERNING THE ADOPTION OF UNIFORM CONDITIONS OF APPROVAL AND RECIPROCAL RECOGNITION OF APPROVAL FOR MOTOR VEHICLE EQUIPMENT AND PARTS

done at Geneva on 20 March 1958

Addendum 58: Regulation No. 59

Date of entry into force as an annex to the Agreement
1 October 1983

Amendment 1

*Supplement 1 to this Regulation in its original form (not requiring changes
in the approval number) – Date of entry into force: 28 January 1990*

UNIFORM PROVISIONS CONCERNING THE APPROVAL OF REPLACEMENT
SILENCING SYSTEMS



UNITED NATIONS

Paragraph 3.3.3.2., amend to read:

"... stationary must not exceed by more than 3 dB(A) the reference value ..."

Paragraph 6.4., amend to read:

"... submitted to conventional conditioning using one of the three installations and procedures described below. When the procedure described ..."

Add new paragraphs 6.4.1. and 6.4.2. as follows:

6.4.1. Continuous road operation for 10 000 km

6.4.1.1. About half this operation shall consist of town driving and the other half of long-distance runs at high speed: continuous road operation can be replaced by a corresponding test-track programme.

6.4.1.2. The two engine speeds must be alternated several times.

6.4.1.3. The complete test programme must include a minimum of 10 breaks of at least three-hour duration in order to reproduce the effects of cooling and any condensation which may occur.

6.4.2. Conditioning on a test bench

6.4.2.1. Using standard parts and observing the vehicle manufacturer's instructions, the silencer must be fitted to the engine, which is coupled to a dynamometer.

6.4.2.2. The test must be conducted in six six-hour periods with a break of at least 12 hours between each period in order to reproduce the effects of cooling and any condensation which may occur.

6.4.2.3. During each six-hour period, the engine shall be run under the following conditions in turn:

- (1) five minutes at idling speed;
- (2) one-hour sequence under 1/4 load at 3/4 of rated maximum speed (S);
- (3) one-hour sequence under 1/2 load at 3/4 of rated maximum speed (S);
- (4) 10-minute sequence under full load at 3/4 of rated maximum speed (S);
- (5) 15-minute sequence under 1/2 load at rated maximum speed (S);
- (6) 30-minute sequence under 1/4 load at rated maximum speed (S);

Total duration of the six sequences: three hours.

Each period must comprise two sets of the six above-mentioned sequences.

- 6.4.2.4. During the test, the silencer must not be cooled by a forced draught simulating normal airflow around the vehicle. Nevertheless, at the request of the manufacturer, the silencer may be cooled in order not to exceed the temperature recorded at its inlet when the vehicle is running at maximum speed."

Paragraphs 6.4.1. - 6.4.1.1., should be renumbered subsequently as paragraphs 6.4.3. - 6.4.3.1., and paragraphs 6.4.2. - 6.4.2.8. as paragraphs 6.4.3.2. - 6.4.3.2.8.

Title of paragraph 6.4.3. (new) should read: "Conditioning by pulsation".