

ANNEX VII

VERIFYING AXLE DATA

3. General requirements

The axle gears and all bearings, except wheel end bearings used for the measurements, shall not be used.

On request of the applicant different gear ratios can be tested in one axle housing using the same wheel ends.

Different axle ratios of hub reduction axles and single portal axles (HR, HRT, SP) may be measured by exchanging the hub reduction only. The provisions as specified in Appendix 4 to this Annex shall apply.

The total run-time for the optional run-in and the measurement of an individual axle (except for the axle housing and wheel-ends) shall not exceed 120 hours.

For testing the losses of an axle the torque loss map for each ratio of an individual axle shall be measured, however axles can be grouped in axle families following the provisions of Appendix 4 to this Annex.

3.1 Run-in

On request of the applicant a run-in procedure may be applied to the axle. The following provisions shall apply for a run-in procedure.

- 3.1.1 Only factory fill oil shall be used for the run-in procedure. The oil used for the run-in shall not be used for the testing described in paragraph 4.
- 3.1.2 The speed and torque profile for the run-in procedure shall be specified by the manufacturer.
- 3.1.3 The run-in procedure shall be documented by the manufacturer with regard to run-time, speed, torque and oil temperature and reported to the approval authority.
- 3.1.4 The requirements for the oil temperature (4.3.1), measurement accuracy (4.4.7) and test set-up (4.2) do not apply for the run-in procedure.