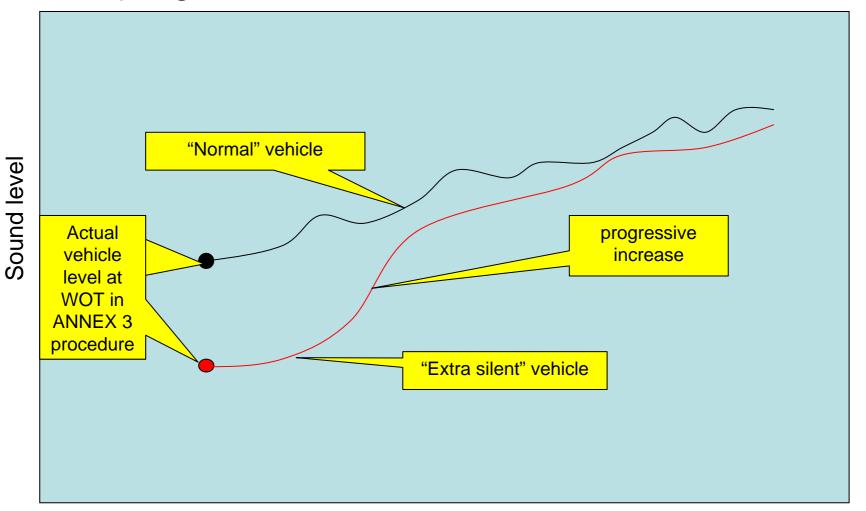
An option for a limit derived anchor point in the D/F ASEP proposal

Issued by your chairman May 2007

Open issues after the 6th meeting

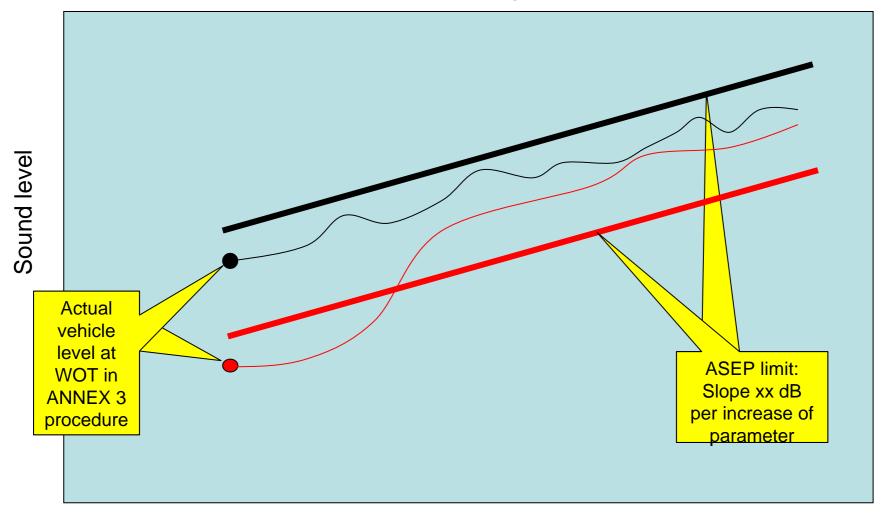
- How to deal with vehicles which are extra silent under circumstances of annex 3, but have a progressive increase to normal noise behavior under higher engine speeds? (Daimler Chrysler issue from 4th meeting)
- 2. How to deal with the separation of tyre noise and engine noise? (D/F proposal)
- 3. How to deal with the proposed 6 dB/1000 rpm limit curve compared to the spread in measured vehicles? (OICA presentation GRBIG-ASEP-05-003)
- Ref: Paper "The remaining open issues of ASEP data processing after the 6th meeting" April 2007 by the chairman.

Issue 1: extra silent vehicles with progressive increase to normal noise behavior



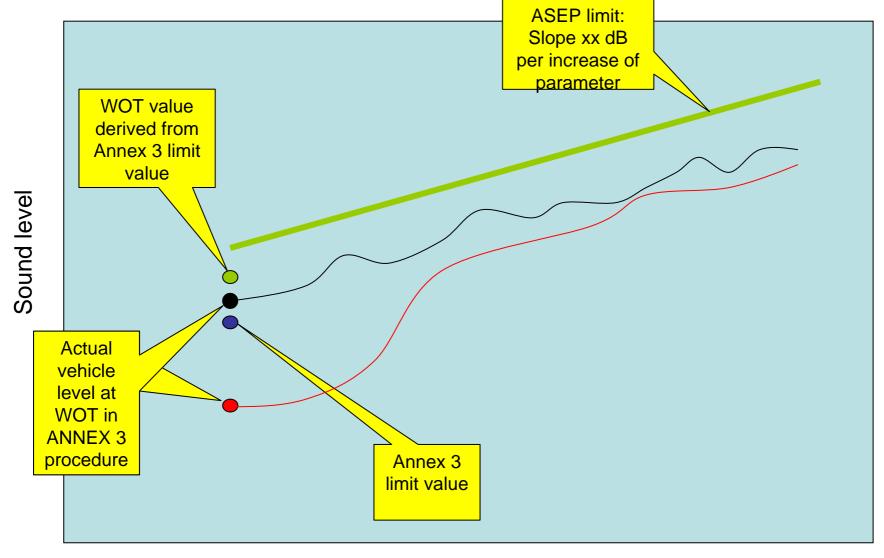
System 1: ASEP based on measured Annex 3 value:

- Black vehicle passes ASEP;
- •Red vehicle fails ASEP due to the progressive increase
- •This system would reject the red vehicle, although it is more silent than the black vehicle



System 2: ASEP based on Annex 3 limit value

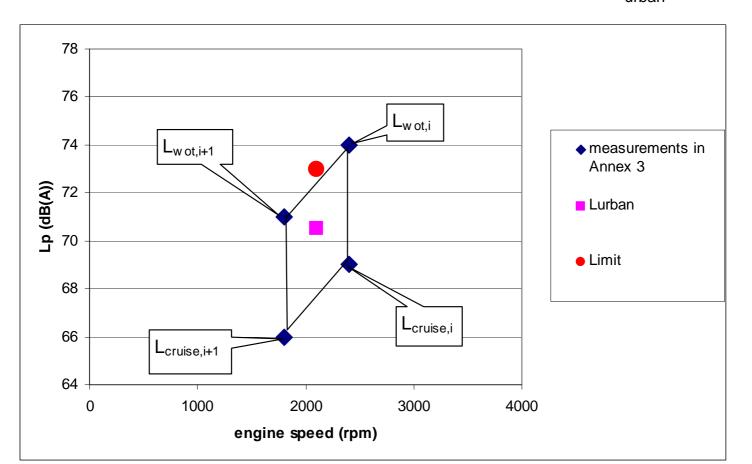
Both vehicles pass ASEP



New challenge:

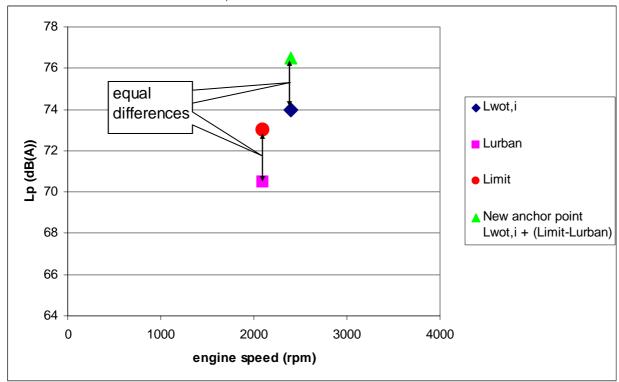
derive a WOT value from the limit value of annex 3

- The current ASEP anchor point is L_{wot,i}
- There is no direct relation between L_{wot,i} and the limit value of annex 3
- An indirect relation can be made via the final test result (L_{urban})



Potential solution

- It is assumed that the difference between the Limit and the final measurement result (Limit -L_{urban}) is the quantity that determines how much "extra silent" the vehicle under investigation is.
- It is also assumed that this difference is equally build up from all intermediate measurement results (L_{wot,i} etceteras) that where necessary to calculate the L_{urban}. Or in other words, that all annex 3 intermediate measurement results are all as much "extra silent" compared to a " normal" vehicle.
- With these two assumptions a new limit derived anchor point for ASEP can be determined out of the current anchor point L_{wot.i}:
 - New anchor point = $L_{wot,i}$ + (Limit- L_{urban})



Question

 Could all ASEP members (especially Daimler Chrysler) check on the base of their existing data, if this option could solve the outstanding issue number 1