Outcome of Meeting on “Environmentally Friendly Vehicle” on Noise

Date: 15th February 2011
Introduction

Activities carried out by EFV Informal Group
• Chairman EFV presented the need of EFV 9th Session for Noise in GRB Group, to get their input on the evaluation method to be adapted for assessment of Noise.

Parameters Considered to assess EFV
• CO2 Emissions
• Regulated Pollutants
• Noise
• Recycling
• Discussions to be continued to freeze Parameters
Guidelines for EFV Assessment Methodology

• Information to the customer about the noise performance of the vehicle so that customer can make an intelligent choice for purchase of the vehicle.
• No new mandatory Standard to be developed for EFV noise assessment.
• Information to be introduced on a voluntary basis
• Approach should be technology/segment neutral
• Only TTW emissions for assessment of EFV. WTT information to be captured in preamble.

Need to firm up the thinking and proceed.

9th Informal Group Meeting on Environmentally Friendly Vehicle (EFV) - Noise
Presentations Made

• Summary of GRPE EFV Informal Group working paper no. EFV-07-05, EFV-08-06 was presented in GRB group for input from Noise experts.

• OICA presented informal document No. EFV-09-06 highlighting the contribution of Powertrain noise and also Tyre noise over speed ranges. Tyre Noise is most dominant for Electric Vehicles.
Open Questions Discussed

• Should we consider Interior noise for assessment?
• What method can be adapted for Presenting Noise Data as Consumer Information?
• How to consider other factors contributing to Noise while assessment?
Should Interior noise be considered for assessment?

- It was discussed whether to consider Internal Noise as one of the factors for assessing EFV?
- It was concluded that Interior noise is not to be considered for EFV noise assessment as it does not assess Environmental noise and Interior noise is a choice of customers and should not be regulated.
- Method of new pass by noise on ISO surface as per ECE R-51 was accepted for performance evaluation of EFV –Noise.
How to Represent Exterior Noise data as a Consumer information (Measured as per New ECE R-51 Method)

Vehicle under consideration

Option 1- As Single value

Min (Sound for EV)  dB(A)  74 dB(A) (Limit of M1 Class)

Option 2- As Ranking

Though it was not concluded, the thinking was to go for Option 1. Further discussion is needed on this.

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How to consider other factors contributing to Noise?

- It was felt that Vehicle and Tyre noise can be factors for noise assessment.
- It was suggested to consider other factors (viz. Road surface, Tyre, Traffic Management, Driving Behavior, Infrastructure contribution, Noise Barrier, Town planning etc.) contributing to overall Exterior Noise as a preamble to EFV document on Noise.
Conclusion

• Chairman – EFV recommended to have a task force to come out with an Informal document on EFV Noise before end of 2011.
• Task force members may interact to prepare Informal document and meet during next WP- 29 meeting in March 2011.
• GRB Chairman requested every member to participate in developing Informal document on EFV noise. It is also suggested to send their comments / suggestions by mail.
Thank You