

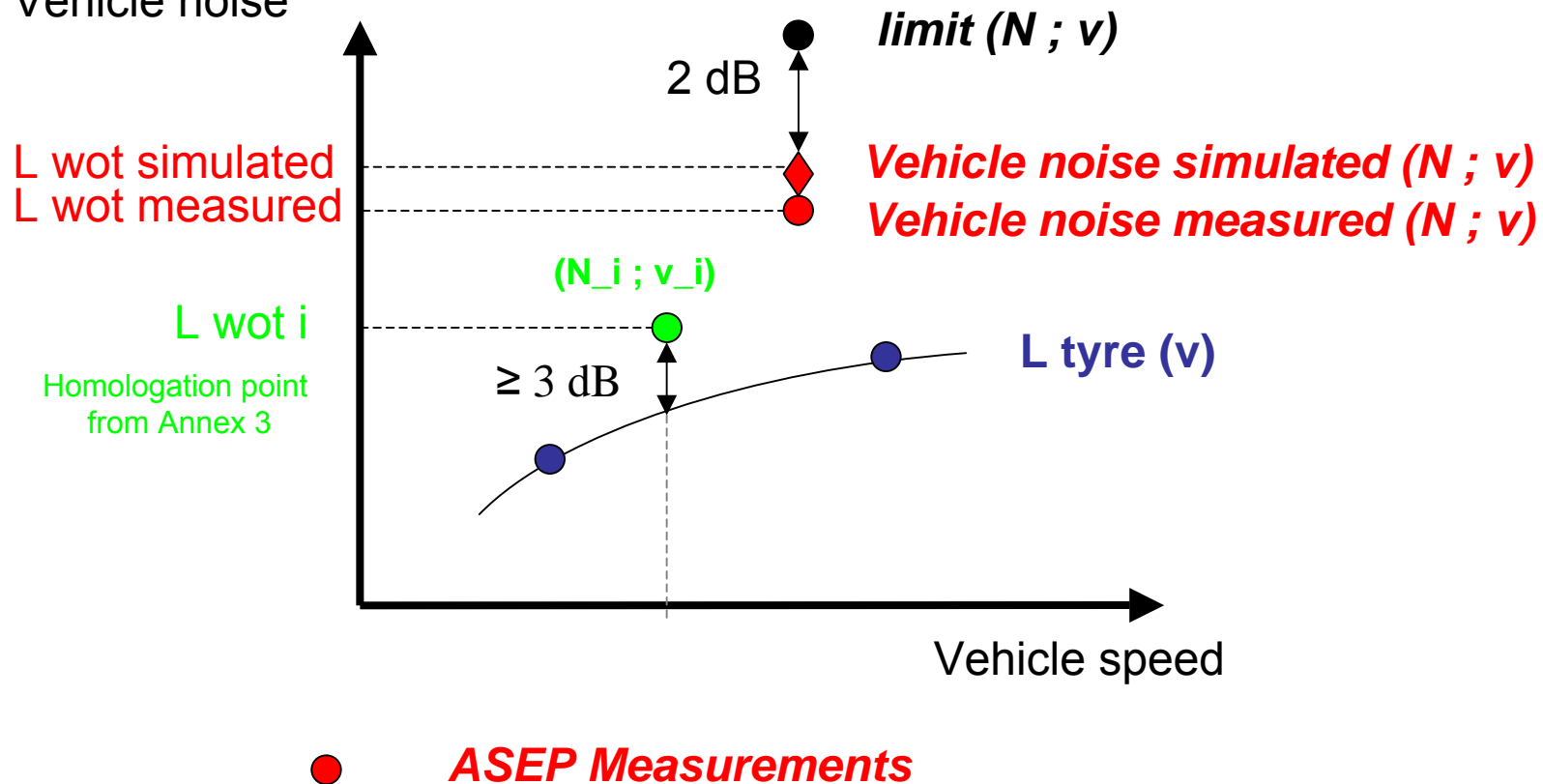
Vehicle noise behavior - French concept

Informal document No. **GRB-44-3**
 (44th GRB, 4-6 September 2006
 agenda item 1.2.1.3.)

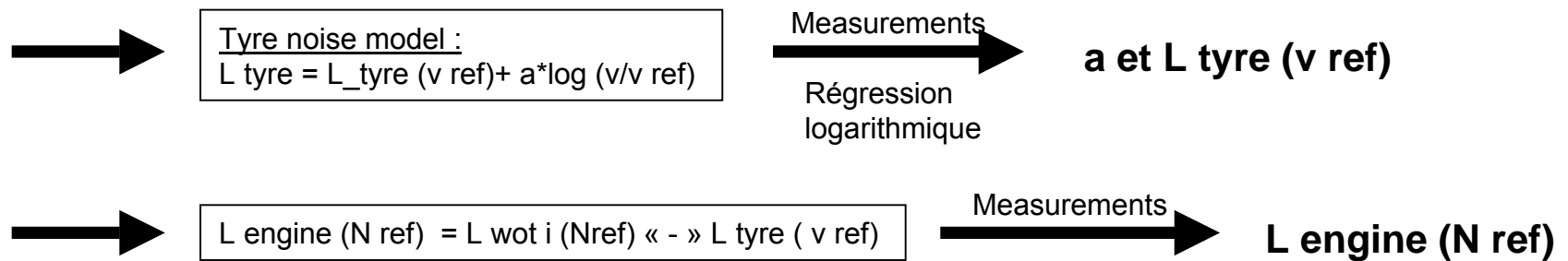
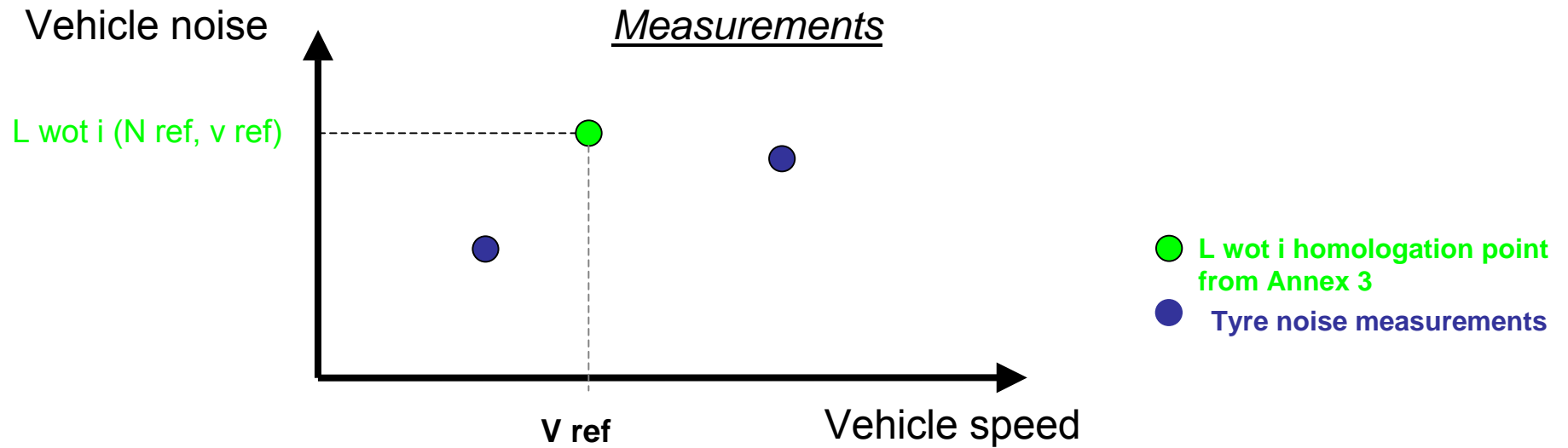
Model :
 $L_{\text{tyre}} = L_{\text{tyre}}(v_{\text{ref}}) + a \cdot \log(v/v_{\text{ref}})$
 $L_{\text{engine expecting}} = L_{\text{engine}}(N_{\text{ref}}) + b(N - N_{\text{ref}})$
 $L_{\text{vehicle}}(N, v) = L_{\text{engine expecting}}(N) \llcorner + \llcorner L_{\text{tyre}}(v)$
 $L_{\text{limit}} = L_{\text{vehicle}}(N, v) + 2 \text{ dB}$

Critique :
 - Compliquée
 - Bruit pneumatique incomplet (effet couple)
 - Robuste

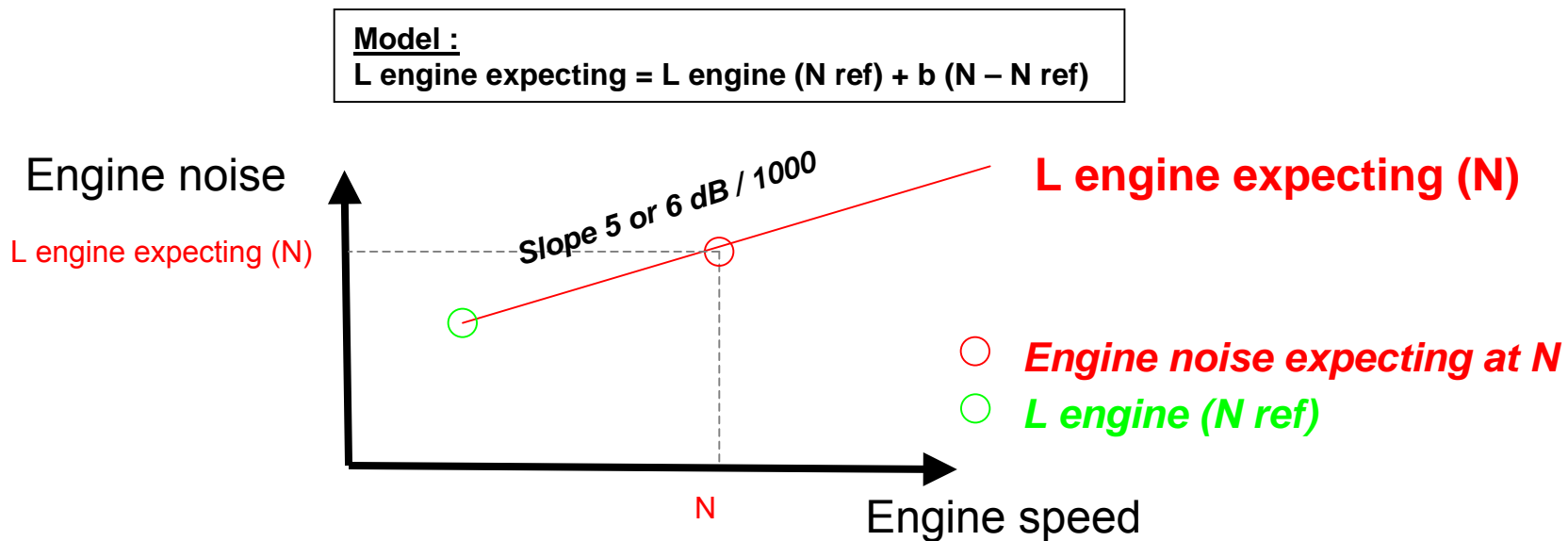
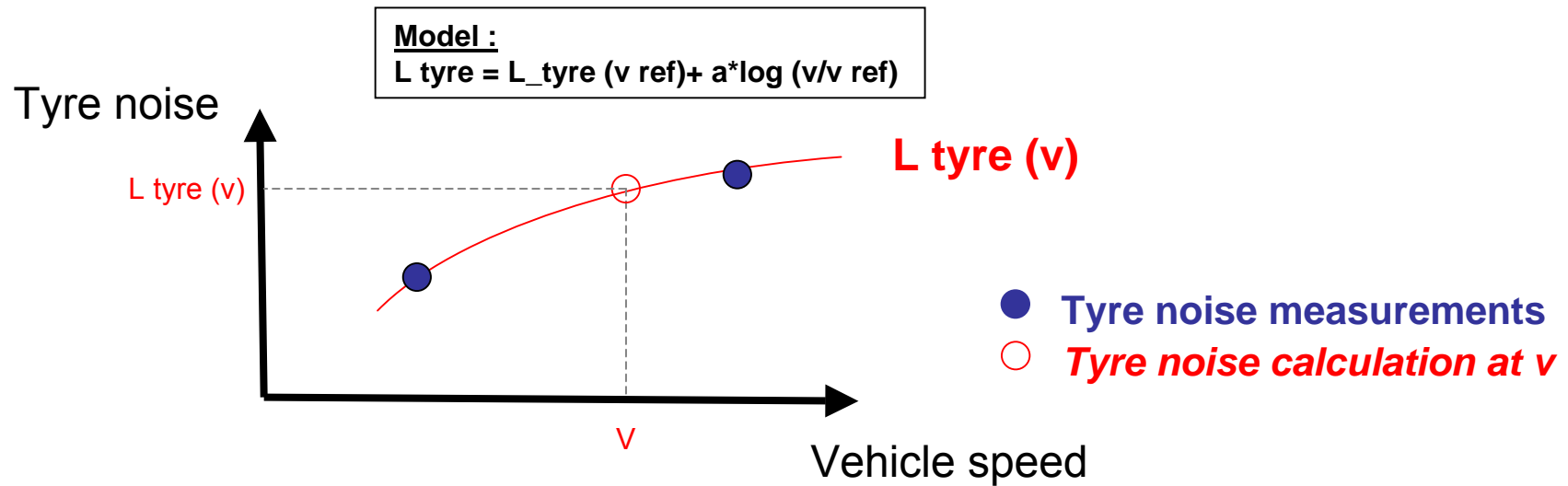
Vehicle noise



Vehicle noise behavior French concept : Construction of the model



Vehicle noise behavior French concept : Model Application for (N, v)



➔

Model :
 $L_{\text{vehicle}}(N, v) = L_{\text{engine expecting}}(N) \ll + \gg L_{\text{tyre}}(v)$