

Escola Tècnica Superior d'Enginyeries Industrial i Aeronàutica de Terrassa



General Assembly

Meeting PROHIPP (period 37-48 month)

26-27 May 2008 Vic (Catalonia-Spain)



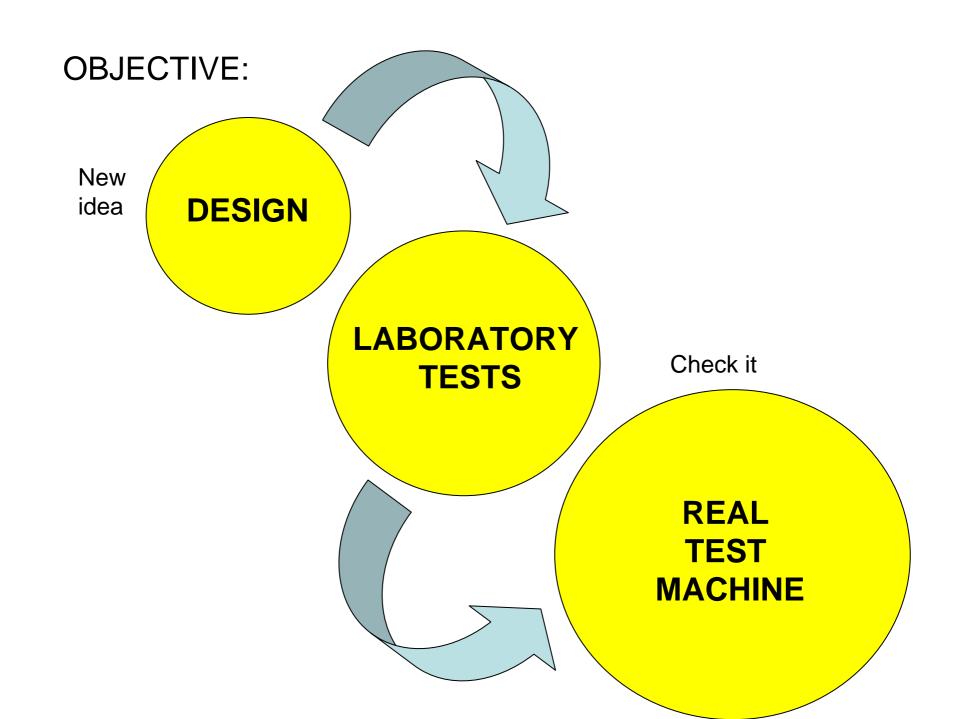


Studied cases:

- Dumper truck (SEMPERE)
- Backhoe LEON (HIDRAR)
- Backhoe BMH (HIDRAR)

Partners involved:

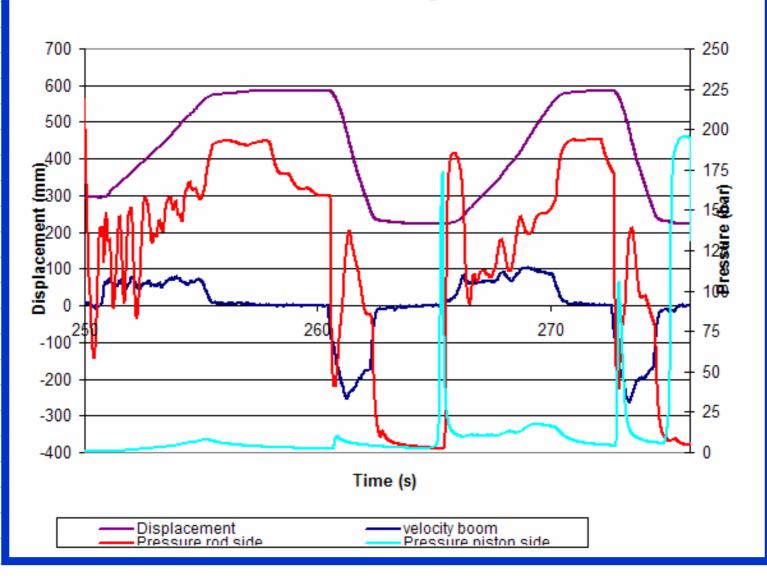
IMAMOTER, Pedro ROQUET SA, HIDRAR, SEMPERE, UPC-LABSON



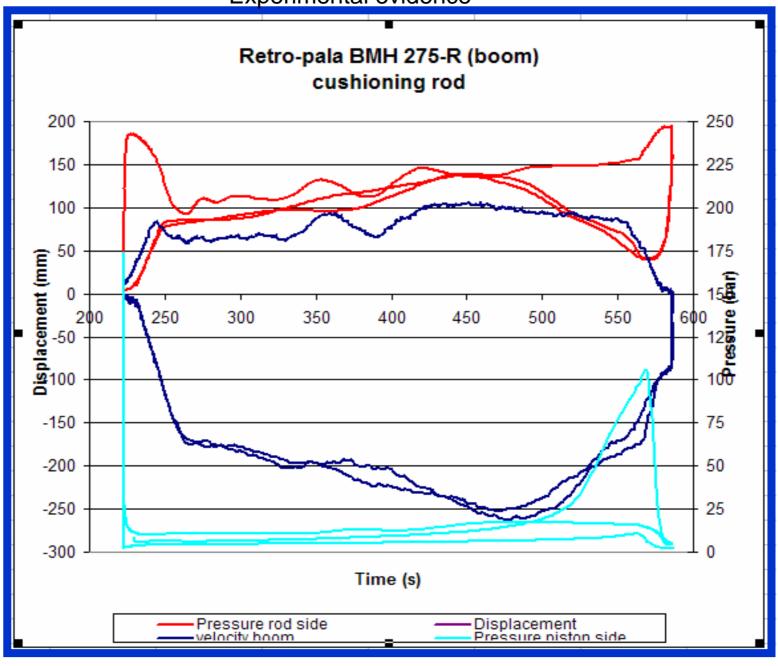
BMH Backhoe

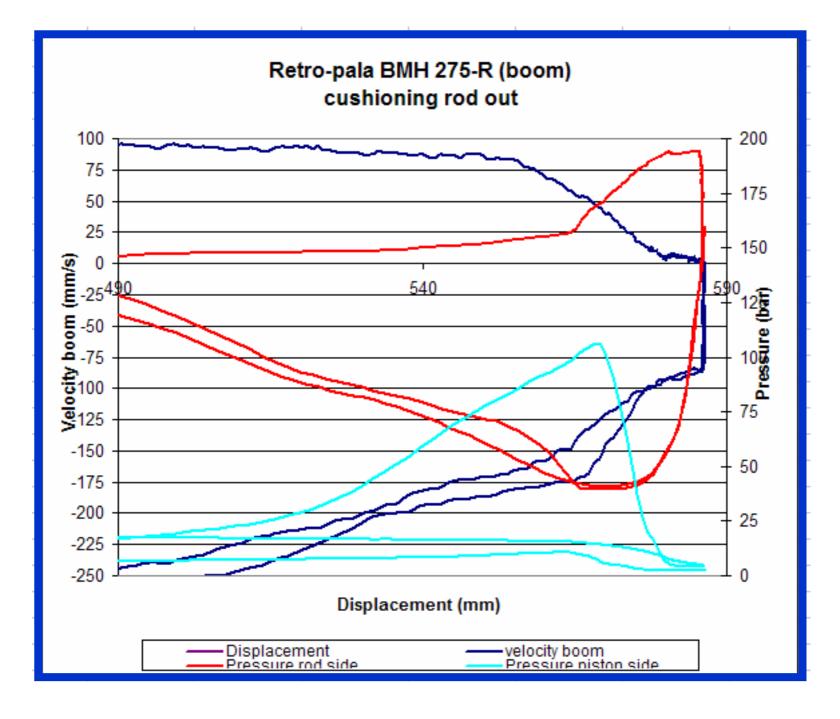


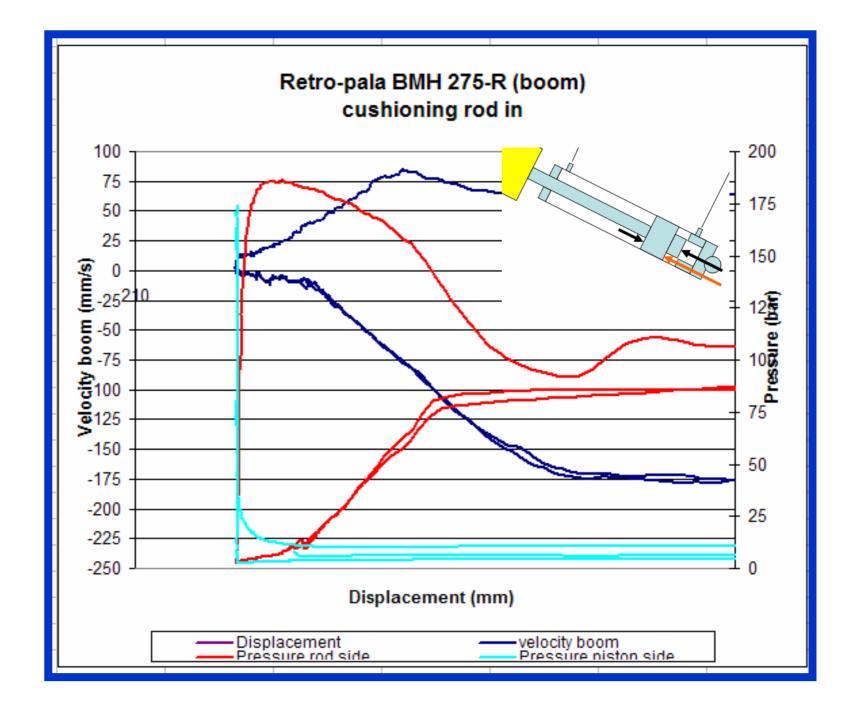
Retro-pala BMH 275-R (boom) cushioning



Experimental evidence







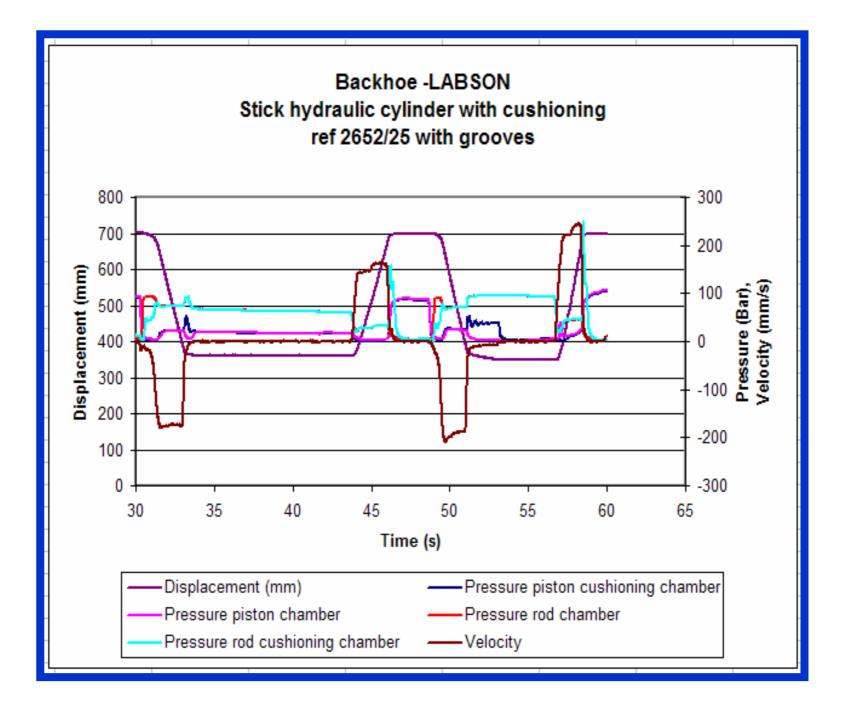
BACKHOE LEON

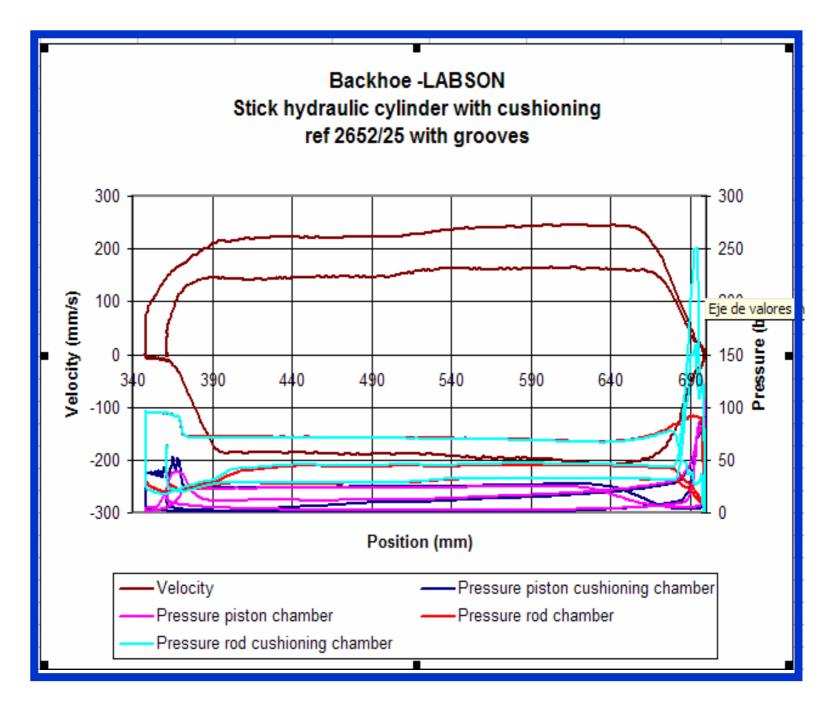


OBJECTIVE:

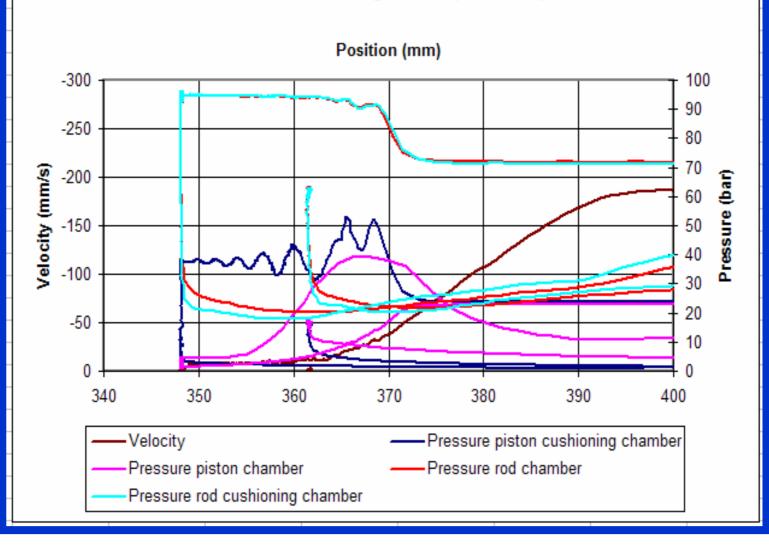
Cushioning end strokes of hydraulic cylinder (movement of stick arm)

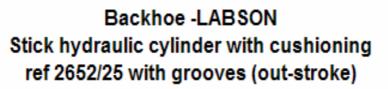


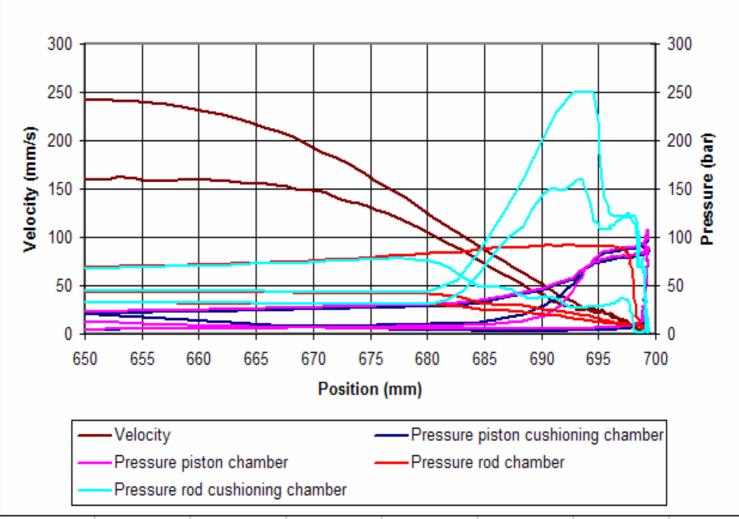




Backhoe -LABSON Stick hydraulic cylinder with cushioning ref 2652/25 with grooves (in-stroke)

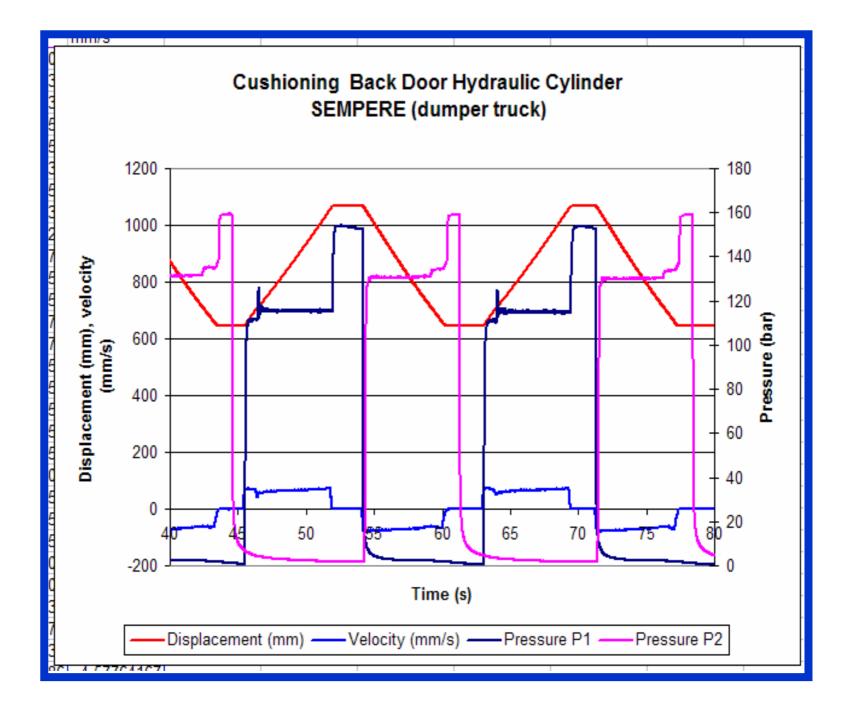


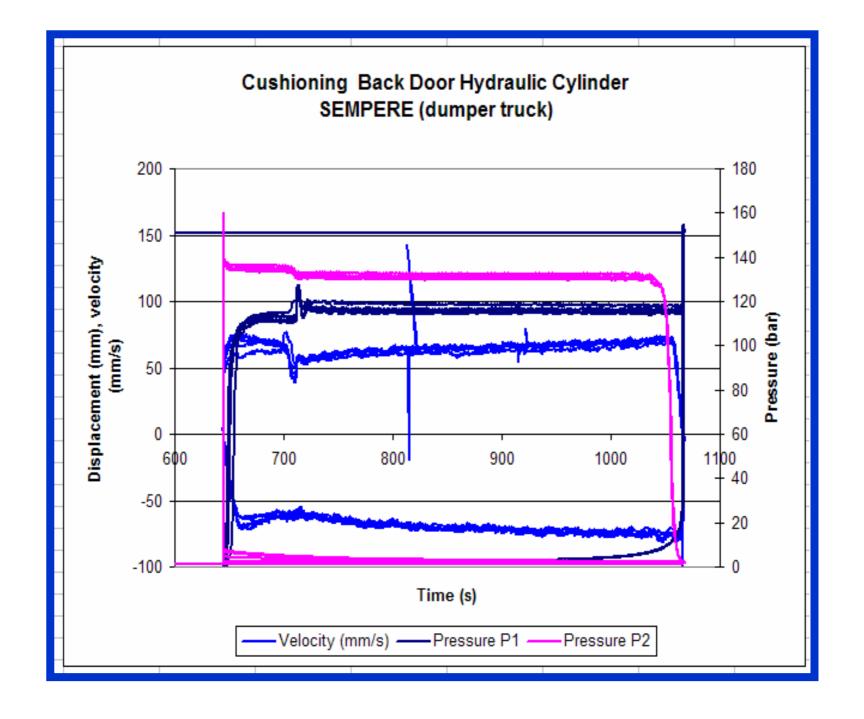




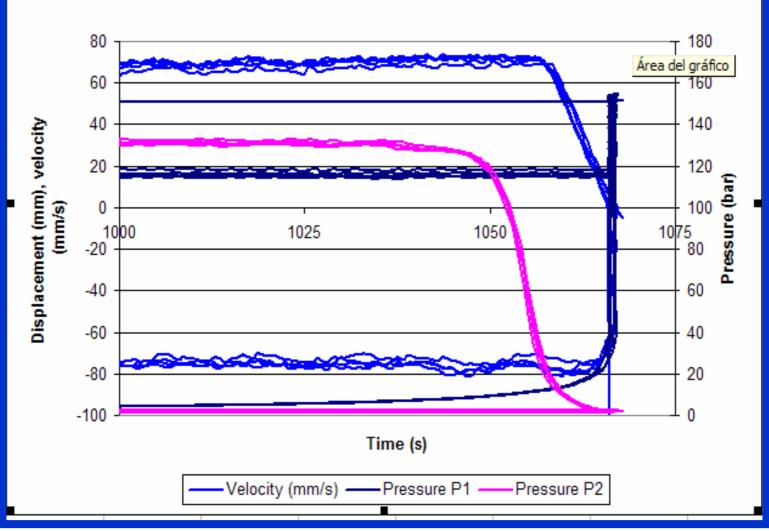
Back door movement of dumper truck

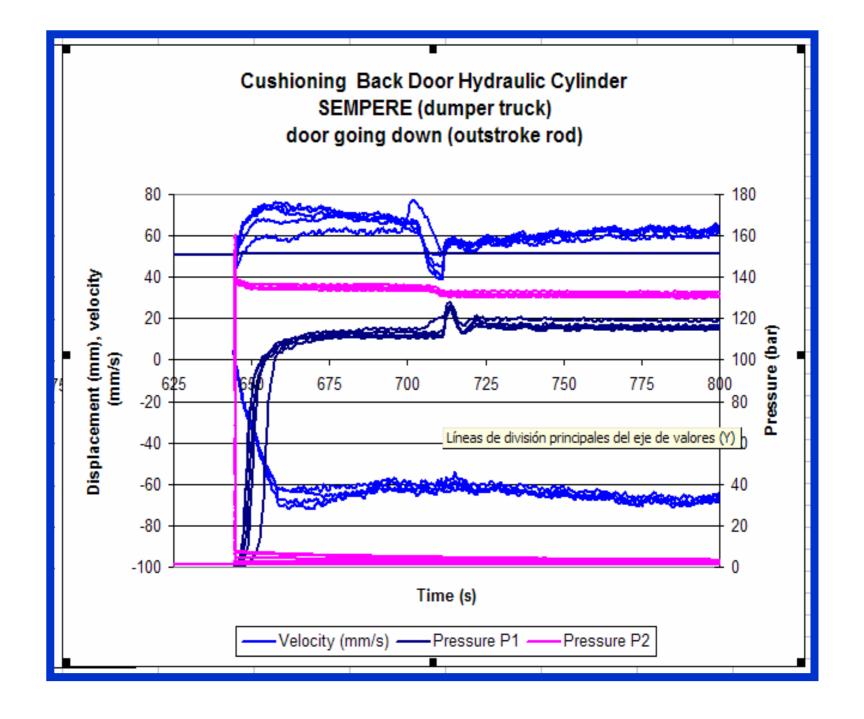












Cushioning Back Door Hydraulic Cylinder SEMPERE (dumper truck) door going down (outstroke rod)

