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(7th HDH meeting, 12 to 14 October 2011)

Clean Automotive Technology

HHV Component Information

October 16, 2011

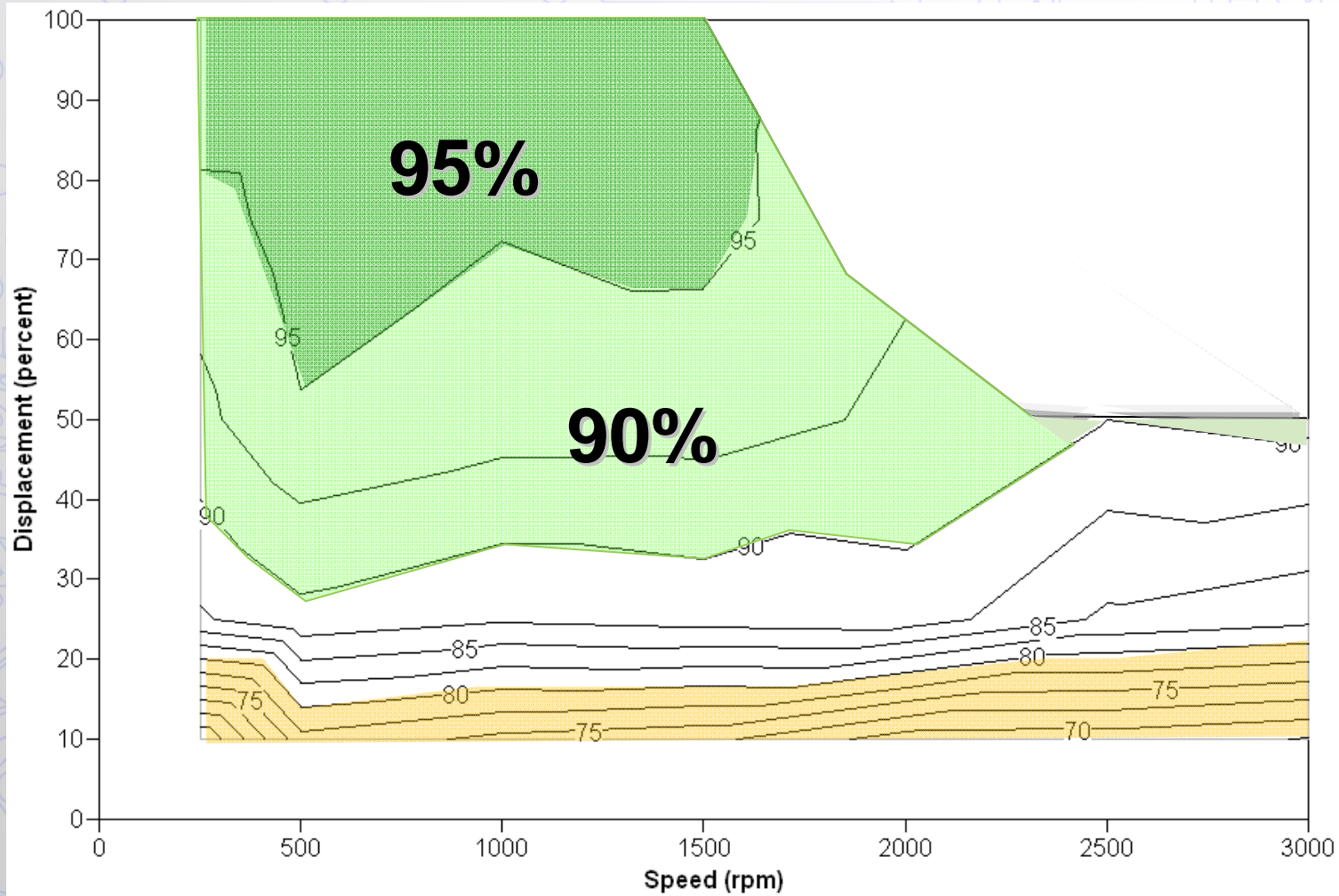


Clean Automotive Technology Program
Office of Transportation and Air Quality
U.S. Environmental Protection Agency

Clean Automotive Technology
www.epa.gov/otaq/technology

Bent-Axis Pump-Motor Efficiency

*Motor Mode at 3500 psi**



* Efficiencies at other pressures above and below 3500 psi are similar to those shown in this chart.

Accumulator Performance

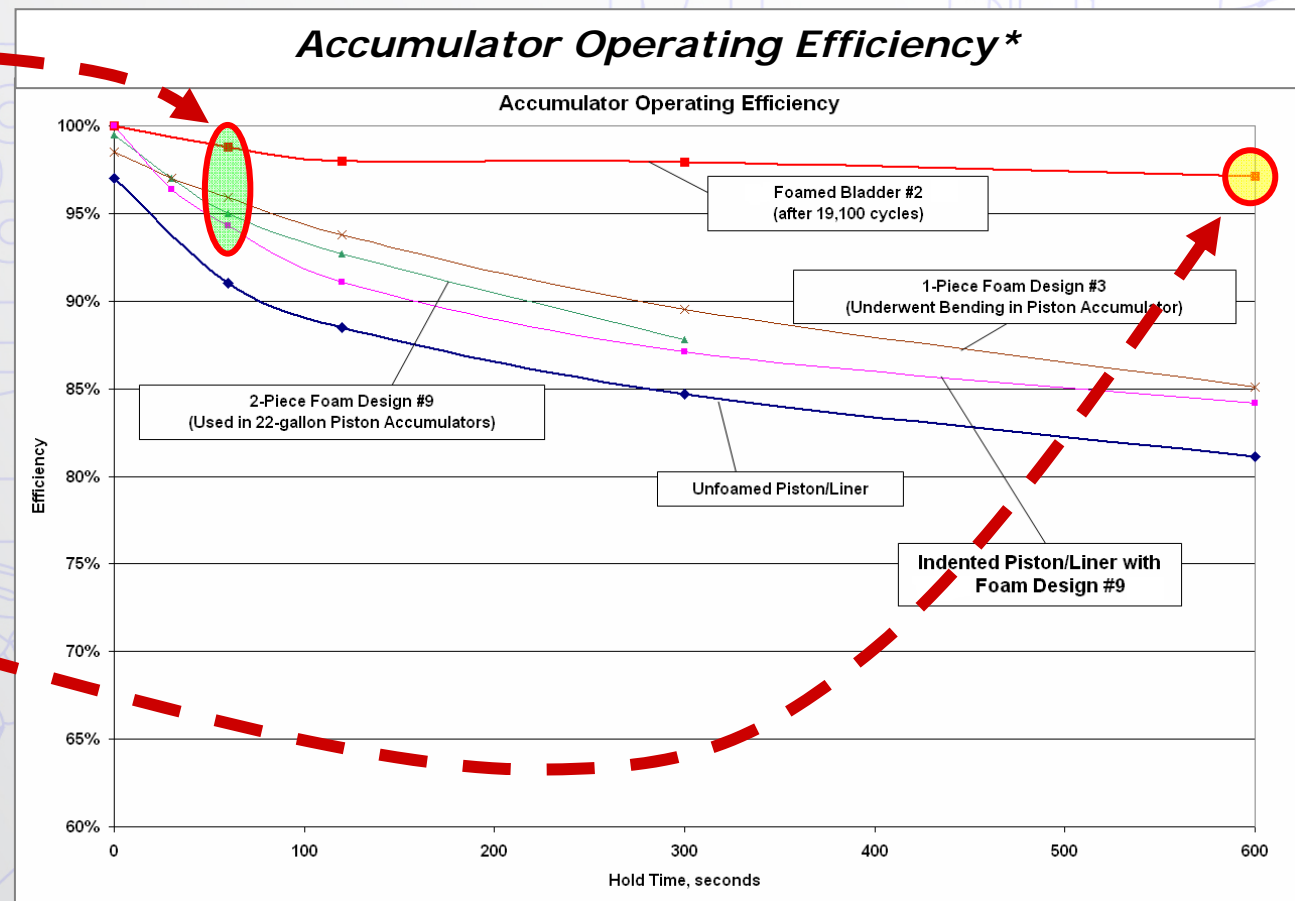
Charge/Discharge Efficiency

✓ 60-second Hold

After a 60 sec hold, typical foamed accumulators were able to retain **94% to 98%** of the energy.

✓ 10-minute Hold

The best accumulator tested was able to retain **97%** of the energy.



* From a comparison of energy/efficiency tests in several 16-gallon accumulators done for EPA by Southwest Research Institute.

Relative Performance of Energy-Storage

