

# TECHNOLOGY DEVELOPMENT PROJECT FACT SHEET

## FF002: H-CNG VEHICLES – CHRYSLER CNG VAN

The 1999 Dodge Ram Wagon Van was equipped from the factory to operate on CNG, with a fuel tank rating at 3600 psig. CNG testing on the vehicle began in September 2000 and continued until July 2002, at which time, the vehicle operated on a blend of 15% hydrogen and 85% CNG.



Every 15,000 miles, the vehicle received a lubrication and oil change. No safety or reliability problems have been encountered. With over 60,000 miles of operation, the maintenance cost averaged \$0.077 per mile.

While operating on a 15% blend, there were emissions reductions of all pollutants, with the exception of NOx during hot and cold starts. However, there were significant decreases in emissions of all other pollutants in all other operating modes.

Vehicle Specifications	
Engine	5.2L V8
Factory HP	150
Curb Weight	5,529 lbs.
GVWR	7,700 lbs.

Miles Per Gallon (MPG)	
CNG	12.14
15% HCNG	13.22

Fuel Type	Test	NMHC	CO	NOX	CO <sub>2</sub>	Non-CO <sub>2</sub> /CO Emissions	CO <sub>2</sub> /CO Emissions
CNG	FTP-75	0.044	2.207	0.317	536.27	0.361	538.477
CNG	IM-240	0.007	0.649	0.024	539.2	0.031	539.849
HCNG	FTP-75	0.044	1.125	0.719	512.4	0.763	513.525

