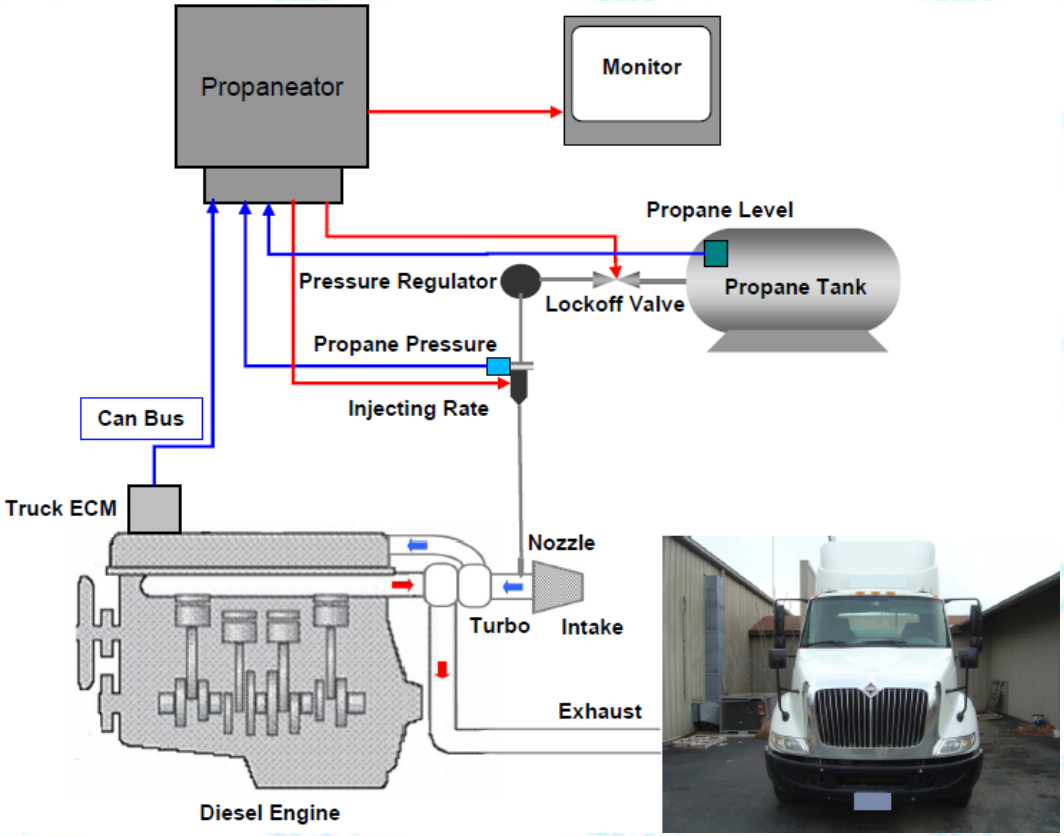
ServoTech

Propane-Diesel Dual Fuel for CO2 and NOx Reduction

Objectives:

A- Develop an advanced dual fuel system for diesel engines to reduce diesel fuel consumption and in conjunction

B- Develop an exhaust aftertreatment system to achieve 2014 Class 8 truck emissions



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Propane-Diesel Dual Fuel for CO2 and NOx Reduction

Technology

- Electronically controlled propane injection providing a controlled Propane-Diesel dual fuel

- Propane injection controlled by an electronic controller (Propaneator) based on the engine operating information via CAN Bus (Unlike the conventional method utilizing only the boost pressure)

Test Vehicle

- International diesel semi-truck (2007 MY, Cummins ISM 11L engine)
- With a 53 Ft trailer and 17,400 Lbs load
- Average speed of about 65 mph

Test Results

CO2 Reduction	NOx Reduction	Diesel Fuel Reduction	Overall Energy Savings
13%	42%	20%	7%

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