

Poster P-1

Bench-Top Engine System for Fast Screening of Alternative Fuels and Fuel Additives

Hongmei An, Rachel Muncrief, Miguel Cruz
Charles Rooks & Michael Harold
University of Houston

Huzeifa Ismail
Baker Petrolite Inc.

August 4, 2009, Dearborn, MI

Objective:

To fast screen the efficiency of fuel additives or fuel blends on NO_x reduction

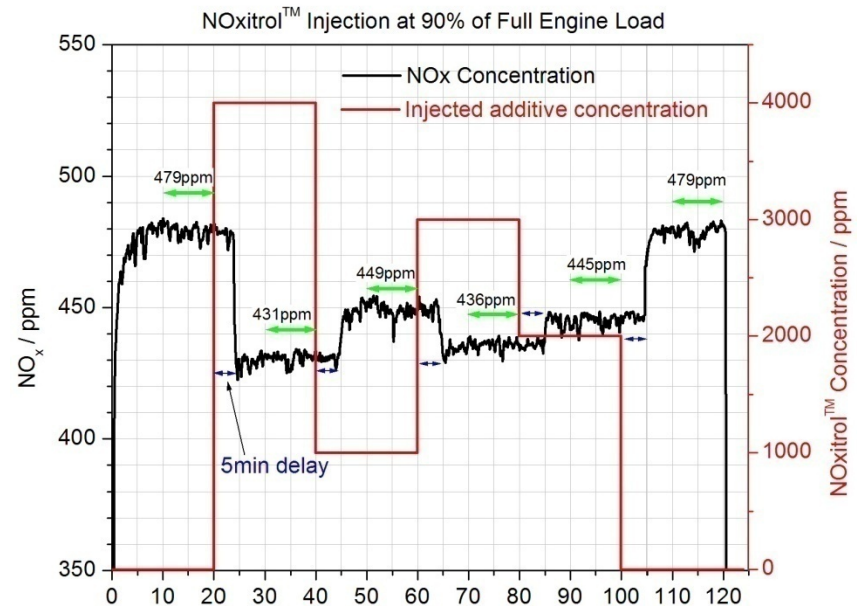
Capabilities:

- Generate fuel/additives or fuel blends of different ratios and feed them into the engine directly
- Operate engine at different loads at pseudo-steady state
- Both engine load and fuel blend ratio are program controllable in situ

Bench-Top Engine Testing System



Influence of Additive NOxitol™ on NO_x Emission at Constant Engine Load



NOxitol is a trademark of Baker Hughes Incorporated