



**RE: Your Clean Cities Newsletter**

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Title: CARB Certifies Propane Engine to Lowest NOx in the Market

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ROUSH CleanTech has developed the first propane autogas engine available in class 4-7 vehicles and Blue Bird Type C buses certified to the optional low nitrogen oxide (NOx) level .05 g/bhp-hr. These new Environmental Protection Agency- and California Air Resources Board-certified propane engines are 75 percent cleaner than the current emissions standard.

“ROUSH CleanTech’s low NOx engine is a great step forward for the propane industry,” said Tucker Perkins, president of the Propane Education & Research Council. “Propane autogas is well established as an economical, clean-burning and domestically produced alternative fuel ideal for fleets. Now propane gets the biggest return on NOx reductions, too.”

Nitrogen oxides are a group of gases known as a primary contributor to acid rain, smog and other air quality issues. The EPA states that exposure to NOx can trigger health problems such as asthma and other respiratory issues. CARB has encouraged heavy-duty engine manufacturers to reduce levels below the current mandatory EPA standard of .2 grams per brake horsepower per hour (known as g/bhp-hr).

“Equipping the Blue Bird Vision with the lowest NOx propane engine makes the best-selling school bus in the industry even better,” said Phil Horlock, president and CEO of Blue Bird. “That’s great news for the environment, our customers and our children. Blue Bird’s propane school bus is the industry leader for lowest total cost of ownership and hassle-free maintenance, while creating a cleaner and safer environment for us all.”

The certification covers ROUSH CleanTech 6.8L V10 3V propane engines for school bus and commercial truck engines with no additional upfront cost. ROUSH CleanTech has begun installing the new low NOx engines in its Ford commercial vehicles and Blue Bird Vision propane school buses with 2017MY engines.

“Developing the lowest NOx propane engine sends a message that this fuel is comparable to other alternative fuels from a standpoint of emissions,” said Todd Mouw, vice president of sales and marketing for ROUSH CleanTech. “With our nation’s ample supply of propane and the fuel’s favorable total cost of ownership, our propane autogas engine is the perfect mix of environmental and economic sustainability.”

Over the past year, NOx awareness has increased due to the Volkswagen emissions compliance issue. The Volkswagen Environmental Mitigation Trust was created to fund actions with cleaner technology that reduce excess emissions of NOx. “Our .05g NOx engine certification will help our school bus and public transit customers target funds from the

upcoming VW Environmental Mitigation Trust program,” said Mouw. “This is especially beneficial for school districts looking for extra funds to replace aging diesel models.”

To learn more about ROUSH CleanTech’s propane autogas fuel system technology that powers Blue Bird Vision Propane school buses and Ford commercial vehicles, please visit [www.roushcleantech.com](http://www.roushcleantech.com).

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