



Achates Power Opposed-Piston Diesel Engine Heavy Duty Truck Project Partnership Awarded \$9 Million from California

SAN DIEGO, May 18, 2018- Achates Power has been awarded \$9 million in grant funding to demonstrate Opposed-Piston Diesel Engines in Class 8 commercial vehicles. The on-road demonstration will show that the Achates Power OP Engine delivers more fuel efficiency, dramatically less NO_x and CO₂ emissions and the full performance fleets require.

“Governments around the world are implementing tougher mandates on NO_x emissions and California leads the world with standards that provide cleaner air to its citizens,” said Achates Power President and CEO David Johnson. “Through this demonstration we will show that our OP Engines can deliver what others considered impossible: full diesel engine performance, with dramatically lower NO_x, dramatically reduced fuel consumption and operation costs. We will demonstrate the first diesel engine to meet the world’s toughest emissions standards.”

The Achates Power Opposed-Piston Engine is engineered to achieve superior fuel efficiency by virtue of its lower heat losses, improved combustion and reduced pumping losses. The Achates Power OP Engine delivers ultra-low NO_x by managing exhaust gas temperatures to ensure rapid catalyst light off and by maintaining aftertreatment temperatures at optimum operating conditions in all driving conditions.

While most conventional engines trade efficiency for emission reduction, the Opposed-Piston Engine dramatically reduces fuel consumption to achieve CARB’s lowest Ultra-Low NO_x standard of 0.02 grams per brake horsepower-hour (g/bhp/hr), while simultaneously reducing CO₂ emissions well below today’s best trucks, 15-20% percent below the greenhouse gas requirement.

Achates Power is leading an extensive project team to bring their OP Engines into Peterbilt’s 579 tractor trucks. The team consists of Delphi Technologies, BASF, Corning, Eaton, Faurecia, Litens, Federal Mogul, Aramco Services, and the Southwest Research Institute.

“Achates Power is pleased to be working with our partners around the world to bring Opposed-Piston Engines to the market. Our OP Engines are providing a practical solution for ultra-clean, ultra-efficient and cost-effective transportation,” said Johnson. “Our project with CALSTART for the California Air Resource Board (CARB) shows the need in the market for solutions that will meet the goals we all desire, without forcing solutions on the industry.”

The engine can use existing manufacturing facilities, processes, and materials to enable rapid time-to-market and deployment. The HD OP Engine Demo will help accelerate the engine’s performance validation and enable data sharing, speeding up the potential market adoption of this Class 8 truck propulsion alternative by four to five years.

About Achates Power, Inc.

The Achates Power Opposed-Piston Engine is engineered to meet future emissions and fuel economy standards more cost effectively than any other solution. Founded in 2004 with the mission to build cleaner, more efficient engines, the company has an experienced staff of engineers and scientists working with leading engine manufacturers to bring the OP Engine to market. Achates Power is backed by the Oil and Gas Climate Initiative, Climate Investments;

Sequoia Capital Partners; RockPort Capital Partners; Madrone Capital Partners; InterWest Partners; and, Triangle Peak Partners. For more information, visit www.achatespower.com, www.facebook.com/AchatesPowerInc, www.twitter.com/achatespower and www.youtube.com/achatespowerinc.

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Media Contact

Andrew Schreck

Achates Power

+1 858.535.9920 x 340

schreck@achatespower.com