

December 1st, 2008

## **Executive Bulletin**

California Environmental Engineering (CEE) along with Lotus Engineering in Ann Arbor, Michigan performed a series of Fuel Economy Tests using a randomly selected 2005 MY Toyota Camry. The tests were performed with and without the Moletech Fuel Saver Device. All tests were conducted in a controlled environment at an EPA and CARB recognized laboratory that is ISO certified. The Fuel Economy Test results were compared to the EPA Emission and Fuel Economy test data for the selected vehicle. The well defined test demonstrated improved Fuel Economy greater than twelve percent (12%) using the Moletech Fuel Saver.

The decisive test series indicate the viability of the Moletech Device and the high probability of its continuing improvement with time.

Joseph Jones
Research Director



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## **Executive Summary**

A Proof-Of-Concept (POC) test series was accomplished in September/October 2008 using the Moletech Fuel Saver Device. The tests were performed at the Lotus Vehicle Engineering Laboratory in Ann Arbor, Michigan. The work included Federal Test Procedure (FTP) tests and Highway Fuel Economy Tests (HWFET). The test series was monitored by personnel from the California Environmental Engineering (CEE) Center for Environmental Research in Santa Ana, California.

The test protocol used was in accordance with the procedures defined in the Code of Federal Regulations (CFR) – 40, Part 86, Appendix 1. A representative light-duty gasoline passenger vehicle (2005 Toyota Camry) was selected and used for the chassis-dynamometer tests. Analysis of the database with and without the Moletech Fuel Saver device indicates a significant improvement in fuel economy.

Recognizing the test vehicle was a well maintained certified Partial Zero Emission Vehicle (PZEV) designed, engineered and built to also meet the Super Ultra Low Emission Vehicle requirements the (6%) fuel economy improvement achieved is considered specifically important. Partial Zero Emission Vehicles have cutting-edge emission controls and are the cleanest mass-produced vehicle available. Not all hybrids vehicles meet PZEV standards. The six percent (6%) improvement in fuel economy on the Toyota is very momentous. The short but decisive test series indicate the viability of the Moletech Fuel Saver device, and the high probability of its continuing improvement with time.

Joseph Jones Research Director