



Automotive Testing and Development Services, Inc.

October 13, 2006

Mach 3 Automotive Products, LLC
Attn: Mr. Dennis Leung, General Manager
17188 Hazelwood Dr.
Riverside, CA. 92503

Subject: FUEL CONSUMPTION TEST REPORT ON MACH 3 SUPER ECOFUEL
SAVER ADDITIVE

Dear Mr. Leung,

Automotive Testing and Development Services, Inc. (ATDS) is pleased to report the results of testing conducted for Mach 3 Automotive Products, LLC. wherein their SUPER ECOFUEL SAVER fuel additive (EPA Reg#:1927-0002) was tested for fuel economy benefits in a gasoline passenger car application.

The testing was conducted in an on-road environment, using public highways, and based upon the Society of Automotive Engineers (SAE) J1321* (Type II) test protocol. Two Ford Taurus V-6 passenger cars were provided for test by the client. Prior to the start of the first phase, over the road testing, ATDS mechanics disconnected the original fuel system and installed a stand-alone fuel tank in the trunk of each car. Electric fuel pumps and regulators were also installed to ensure the vehicle received the appropriate fuel flow and pressure. The stand-alone fuel tank had quick disconnect fittings on the fuel and return lines so that the tanks could be easily removed from the trunk for weighing after each test run. In this manner it was possible to determine the fuel usage of each car precisely.

The SAE J1321 (TYPE II) protocol requires two sequences of test runs. The first sequence of runs is used to establish the Baseline fuel economy of the two vehicles. Normally one of any pair of vehicles, even ones that are essentially the same, will get better fuel economy than the other. The vehicles are run over the course at the same time with the drivers endeavoring to remain in sight of one another and to start and stop the vehicles simultaneously. This way the relative fuel economy of one to the other can be established. The effects of temperature, wind, humidity, traffic, etc are therefore controlled for and it is only the intrinsic difference in fuel economy between the vehicles that is measured. Drivers are also swapped between the vehicles so as to reduce the effect of driver skill and temperament. The second sequence of runs is conducted with one vehicle using normal fuel and the other one using treated fuel. The runs are conducted and the relative fuel economy of the two vehicles is again determined. The absolute value of fuel economy for the test vehicle with the additive is not compared directly to the economy in the baseline condition. Instead the ratio of test vs. control vehicle is computed and then compared from run to run. This ratio comparison minimizes the effects of differing traffic and weather conditions from one day to the next.

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During the test, ATDS drivers drove both cars over a real-world road route in the Ontario, CA. area of approximately 54 miles in length. Depending upon traffic conditions the vehicles were able to complete either 2 or 3 laps prior to returning to ATDS for fuel measurement and refill. The cars were fueled with Indolene, a specially blended unleaded test gasoline which was taken from marked barrels, one for each vehicle. Prior to beginning driving each day the fuel tanks were removed from the vehicle trunks and weighed on a scale with a resolution of 0.02 Kg. The weight of the fuel had been previously established by weighing a 5 gallon "Prover" bucket of the fuel on the same scale; the weight of the fuel was 2.79 Kg/gallon. The tanks were then filled to the full mark on the tank and weighed again. This is the starting weight for each run. At the end of the run the cars were stopped in the parking area and the tanks removed and weighed again to provide the ending weight for each run. The process was then repeated for each additional run.

The SAE test protocol calls for the vehicles to run until 3 runs had been completed where the difference in the ratio in fuel usage between the cars for those runs was less than 2%. It took a total of seven runs to achieve the 3 runs within a 2% window. Once the Baseline testing was completed the fuel barrel for one vehicle was treated with SUPER ECOFUEL SAVER per the customer's instructions. Then the over the road testing was restarted. Neither driver was informed of the whether their vehicle was using the original fuel or the SUPER ECOFUEL SAVER treated fuel to reduce the possibility of a "placebo" effect. The process continues until again 3 runs are completed where the difference in relative fuel economy of the two vehicles for those runs is within a 2% window. A total of 6 runs were made with one of the vehicles using the SUPER ECOFUEL SAVER treated fuel in order to achieve the three repeating runs.

The test results show that the test vehicle, with the SUPER ECOFUEL SAVER additive mixed into its' fuel, showed a 13% improvement in Fuel Economy when compared to the control vehicle. The power of a comparative test protocol like the SAE J1321 (TYPE II) is that it removes the effects of changes in weather and traffic from the Fuel Economy equation since both vehicles are operating under exactly the same conditions. In this case, without the use of a comparative test protocol it would have been possible to miss the positive effect of SUPER ECOFUEL SAVER on the fuel economy of the test vehicle.



The results of this test are summarized on the enclosed table. 13% fuel savings were demonstrated with fuel treated with SUPER ECOFUEL SAVER fuel additive on a 2007 Ford Taurus with only 5,000 miles on its' odometer; therefore it appears possible that there is a beneficial fuel economy effect in this application.

Sincerely,

Linwood Farmer
Vice President
ATDS, Inc.

Enclosure (1) Summary Table of Fuel Economy Testing on Two Ford Taurus Passenger Cars

- The J1321 Test protocol is a copyrighted product of the Society of Automotive Engineers. No endorsement of this test report by the SAE is implied.

Cc: Mr. William Wu, President, Chinaoil (USA), Inc.

