

## FUELS & LUBES TECHNOLOGIES, LLC

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### Diesel Fuel Consumption Reduction Study

The objective of the study was to determine if Amber Tech. M99 would help reduce fuel consumption in a 6.5 Turbo Diesel powered GM ¾ ton pickup truck.

#### Day 1:

The vehicle is started and warmed for 10 minutes at idle. After 6 miles the truck tank is filled to brim full with a Kinder Morgan 40 cetane diesel fuel. The truck is then driven over a 166 mile course at speeds up to 66 mph on a pre planned course. The fuel consumption rate for this baseline is 17.255 mpg. Following that the vehicles was shut down. All fluid levels and tire pressure were checked and found to be okay.

#### Day 2:

The vehicle is started and warmed for 10 minutes at idle before the next phase of the study is begun. After 6 miles the vehicle tank is filled and the mileage recorded. Next, 14 oz.'s of M99 is added to the crankcase oil and the second 166-mile phase of the testing begins. The fuel consumption rate for the first run with AmberTech M99 was 20.64 mpg. All operating conditions were duplicated and at the end of this run the truck engine is allowed to cool and then shut down.

#### Day 3:

The vehicle is started and warmed for 10 minutes at idle. The truck is driven 6 miles and the tank is again filled. The truck is again driven over the 166-mile course. The fuel consumption rate for this final run with AmberTech M99 was 19.69 mpg. All operating conditions were duplicated and at the end of this run the truck engine is allowed to cool and then shut down. The average fuel consumption of this vehicle running with additive in the crankcase oil over the 2 day run is 20.16 mpg. This translates to an average reduction in fuel consumption of approximately 17%.

Baseline	M99 (run 1)	M99 (run 2)	M99 Results	MPG Increase
17.255 MPG	20.64 MPG	19.69 MPG	20.2 avg. MPG	17 %

Fuel Efficiency Testing was conducted by: John Chovanes, Head Chemist, Chemical Engineer, ASTM, STLE CLS, AISE, SAE, ILCP Technologies

