

CATERPILLAR INC., HEAVY TRUCK CLEAN DIESEL PROGRAM

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ABSTRACT

The DOE Heavy Truck Clean Diesel (HTCD) program is a 5-year program aimed at demonstrating 50-percent thermal efficiency while complying with the 2007 and 2010 emissions regulations. The development program includes the evaluation of multiple technical solutions and culminates in the demonstration of the emission-compliant engine system in a truck chassis. This demonstration truck

will be used for assessment of drivability, emissions compliance on various driving cycles, noise studies, etc. The other aspect of the demonstration truck is the integration of the various engine subsystems onto the engine and into the truck chassis in a manner that is suitable for multiple original equipment manufacturers.