

BREAKTHROUGH DIESEL ENGINE TECHNOLOGY TO MEET TIER 2 AND CO₂ EMISSIONS REDUCTION

Nabil Hakim, et al.

Detroit Diesel Corporation

The Detroit Diesel DELTA engine technology has demonstrated substantial potential to meet future light-truck emissions regulations for personal and commercial transportation. This paper will report on a breakthrough combustion strategy that produces extremely low engine-out emissions. In addition, this strategy provides more favorable conditions for effective further reduction of emissions via aftertreatment.

Engine and vehicle test results will be presented. The effectiveness of the DDC “Wired” approach for engine R&D will be demonstrated. The next generation DELTA brings this advanced technology a step closer to product viability for the 21st Century Truck applications.