

## عنوان مقاله:

Design and Installation of a Diesel Engine on Nissan Z24

## محل انتشار:

پنجمین همایش موتورهای درونسوز (سال: 1386)

تعداد صفحات اصل مقاله: 11

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## خلاصه مقاله:

Clean diesel technology can help to improve Tehran's environmental and air quality. Reducing emissions from existing diesel engines with the existing technologies provides one of the most cost-effective solutions to achieve real and immediate air quality benefits. Diesel engines are significant contributors to air pollution. In order to reduce air pollution, diesel engines can be retrofitted with after-treatment pollution control devices to achieve sufficient reductions. Many retrofit technologies have shown significant emission reductions, on both stationary and mobile diesel engines. Installing retrofit technologies is beneficial to the environment and human health. In order to obtain diesel engine technologies in Iran, a project of installing of QD32 (diesel engine) on Nissan Z24 (gasoline engine) was complimented by Mega Motors company. The project was carried out in three phases: Phase I- The Feasibility Study: Study of advantages & disadvantages of diesel engines with comparison to gasoline engines and selection of proper engine. Phase II- Modeling & Adaptation of Engine on the Vehicle: Investigating necessary changes about inlet-outlet System, fuelling, exhaust, cooling, electrical, transmission and chassis systems. Phase III- the Performance, fuel consumption & emissions tests, Air to Boil, Durability, handling and validation. After the installation of diesel engine and testing of vehicle with a diesel fuel which contains 500 ppm sulphure, results indicated that amount of emissions are in EUROII standards levels. The Nissan Junior vehicle with diesel engine (QD32) without any after treatment was .tested in Iran Khodro emission test Laboratory

## کلمات کلیدی:

QD32 diesel engine, Z24 gasoline engine, emissions

## لینک ثابت مقاله در پایگاه سیویلیکا:

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