

Title:**Fuel Quality Implications on Combustion Engines in the West Bank Area of Palestine****Mohammad Karaeen & Imad Khatib**

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Demand on automotive fuel has been growing in the last two decades in Palestinian areas due to the expansion of urban areas from one side and the emerging of the Palestinian Authority (PA), which has established institutions and drafted legislations that encouraged open market with the assistances provided by the donor countries. Nearly, more than 30% of ground private and public transportation means are considered new. Local automotive dealers and agencies are claiming that engine and exhaust systems' failure are due to the properties of the imported fuel; mainly diesel and gasoline (95). With the absence of regular monitoring on the imported fuel, an investigation is carried out to identify the relevant automotive fuel properties and comparing them with the standard index. The investigation is also carried out on the comparison of imported fuel with similar fuel sold in fuel stations in the occupied Jerusalem. This investigation has been carried out using sample collection and testing in accordance to ATSM relevant series. Results showed that nearly all collected samples agree to some extents with the standards identified by EURO 4, with the exception of diesel fuel samples' heat content properties that showed considerable deviation of all samples from the international index.