

SCIENTIFIC BULLETIN



AUTOMOTIVE SERIES

POSSIBILITIES OF REDUCING THE CHEMICAL POLLUTION OF A DIESEL ENGINE USING CERAMIC MATERIALS

Authors
Viorel NICOLAE ¹ , Gheorghe CRIVAC ¹ , Alexandru BOROIU ¹ , Ionel VIERU ¹ , Sorin ILIE ¹ , ¹ University of Pitesti, Romania Abstract
The paper describes the researches done by the authors in order to realize some parts for the diesel engine ARO DX-28 by ceramic materials. The results of the tests done on the engine test bench showed that the engine performances improve, especially by reducing the chemical pollutants emitted and the smoke grade. The paper also offers an image of the strategies future research directions that must be adopted for improving the performances of the partial ceramic coated diesel engine.
Keywords
Diesel engine, chemical pollution, ceramic parts, ceramic coated components