

IMPROVEMENT OF A DESIGN PISTON OF DIESEL ENGINE OF TRACTOR

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The regular piston, the piston with gallery oil cooling and steel piston of the forced diesel engine are investigated. In the course of calculations hydrodynamic lubrication theory based, their hydromechanical characteristics has been evaluated. Optimum parameters of design skirt for each piston are found, allowing to reduce power loss, oil consumption in a direction of combustion chamber, to increase minimal thickness of a lubricant layer.

Hydrodynamic lubrication theory, diesel engine, tribounit "piston-cylinder"

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