

UDC 521.4-2

Kaukarov A.K. Investigation the dry compaction of internal combustion engine / A.K. Kaukarov, T.M. Mendebaev.,

V.G. Nekrasov, M.K. Kuanyshev // Internal combustion

engines. – 2010. – № 2. – P. 123-127.

It was investigate of the piston's compaction in the cylinder without use of lubricant oil. The design compression rings consisting of two rings placed in one groove of the piston was developed. Each rings is executed with two half rings and step contact of half in a vertical plane and springs for their pressing to a mirror of the cylinder. Joints of rings are shifted be relative each other on 90 degree. The cylindrical surface of rings has turn in which the antifriction layer from hardening paste is incorporated on the basis of graphite. The structure of paste containing 75 % of a graphite powder and 25 % of binding liquid glass was picked up. Paste is checked up on durability in a separate kind, and also in rings. Thermal stability of paste is tested by temper. The effort to shift the rings in the cylinder and compression in the engine is determined. Wear of rings was studied at their work in the experimental engine. Positive parameters of dry condensation are received. Table. 5. Il. 5. Bibliogr. 7 names.