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The schematic diagram of a mechanism of change of compression ratio (MCCR), the engineless plant and the results of experimental and computational investigation of this mechanism have been given. The MCCR operating time at

different values of the total force applied to it and the oil temperature

in the mechanism pockets have been measured and

analyzed. The obtained data characterize the engine compression

ratio variation in time. The experiments carried out on

engineless plant showed the availability of two boundaries that

correlate MCCR operating time with oil temperature and total

force. The boundary value of total force is equal approximately

to 105 N, and the oil temperature is 45°С. If the force and oil

temperature override the specified boundary values the operating

time of a mechanism gradually decreases. Il. 4. Bibliogr. 13

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