

## DEVELOPMENT AND INVESTIGATION OF ELECTROPUMP OF INCREASED SERVICE LIFE WITH BALL BEARINGS

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The results of laboratory investigation and real operation are presented on a high-speed two-stage electropump (EP) of increased service life. In the EP developed design the bearing's balls are pressed against the cage surface of the thrust bearing, the radial movement of the rotor is decreased by use of slot seals with anti-friction rings, the length of electric motor's shaft overhang is reduced, the shaft rigidity is increased owing to position of the second stage's impeller on a hub of the first stage's impeller. The EP service life in real operational conditions exceeds 22900 hours.

*Electropump, bearings, impeller, increased service life, rotor*

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