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Habilitation thesis title: *Researches on the reliability of industrial products*

Domain: Industrial Engineering

PUBLICATIONS LIST

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- 1 **Morariu C.O.**, Zaharia S.M., A New Method for Determining the Reliability Testing Period Using Weibull Distribution, Acta Polytechnica Hungarica, ISSN 1785-8860, Vol 10, No. 7, 2013, pp. 171-186, Factor de Impact: 0.471, ISI Web of Knowledge:
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OTHER PAPERS / RELEVANT ACHIEVEMENTS**a. GRANTS / PROJECTS WON BY COMPETITION OR CONTRACTS WITH THE SOCIO-ECONOMIC ENVIRONMENT - DIRECTOR / RESPONSIBLE**

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- 3 Using Bayesian techniques for bearings quality certification, National Program ORIZONT 2000, Contract no. 284/1999-B31. The beneficiary: National Agency for Science, Technology and Innovation, General Directorate of National Plan Management (Responsible for the research theme to March 2000).
- 4 Studies and researches on increasing the performance of bearings and special assembly bodies by developing new constructive solutions and applying advanced testing methods, National Program ORIZONT 2000, Contract no. 24/1997, Additional Act no. 1/1997 I–B1. The beneficiary: National Agency for Science, Technology and Innovation, Directorate General National Plan Management.
- 5 Quality model of control and certification for bearings used in the exploitation of natural resources, Contract no. 15/26.06. 1997. The beneficiary: ICPM Baia-Mare.
- 6 Durability / reliability tests on bearings, Contract no. 27/05.09.1996. The beneficiary: S.C. URB-Rulmenți Suceava S.A.
- 7 Studies and researches on bearing certification procedures through accredited laboratories, National Program ORIZONT 2000, Contract no. 24/1996-B17. The beneficiary: Ministry of Research and Technology, General Directorate of National Plan Management.
- 8 Researches on bearings reliability tests. Using the sudden death tests and linear estimators, National Program 4.1 - Technological development in machines building, Contract no. 97B/1995-B21. The beneficiary: Ministry of Research and Technology.
- 9 Durability / reliability tests of bearings; Tests and characteristics for the base, technological and auxiliary materials used in manufacturing bearings; Calibrating the accelerometers and measuring chains for specific machinery that measures bearing vibration, Contract no. 3/25.01.1995. The beneficiary: S.C. Rulmentul S.A. Braşov.
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- 11 Researches on the optimization of test methods for sealing bearings, National Program 4.1 - Technological development in machines building, Contract no. 46C/1994-B35. The beneficiary: Ministry of Research and Technology.
- 12 Experimental studies in the monitored system on the evolution of operating parameters of the bearings on the stand, National Program 4.1 - Technological development in machines building, Contract no. 46C/1994-B58. The beneficiary: Ministry of Research and Technology.
- 13 Optimization methodology of testing the reliability of the bearings at constant external tasks, National Program 4.1 - Technological development in machines building, Contract no. 675C/1992-B29. The beneficiary: Ministry of Research and Technology.
- 14 Justification of reliability test parameters of bearings loaded with external variable forces, National Program 4.1 - Technological development in machines building, Contract no. 675C/1992-B28. The

beneficiary: Ministry of Research and Technology.

- 15 Research of bearings quality in current manufacturing, Contract no. 72/01.09.1992. The beneficiary: S.C. Rulmentul S.A. Braşov.
- 16 Fault diagnosis of bearings based on vibro-diagnosis, National Program 4.1 - Technological development in machines building, Contract no. 32/1991- A4. The beneficiary: Ministry of Research and Technology, DICM-DDIM.
- 17 Upgrading of bearings test equipment, National Program 4.1 - Technological development in machines building, Contract no. 32/1991- A3. The beneficiary: Ministry of Research and Technology, DICM-DDIM.
- 18 Creating a technology and system for mounting ball bearings on spindles and boreholes, provided with anaerobic adhesives, National Program 4.1 - Technological development in machines building, Contract no. 32/1991. The beneficiary: Incertrans Bucureşti şi ICPAO Mediaş.
- 19 Design and manufacturing of a 376 – L4 – D (T) engine, 1990. The beneficiary: S.C. Tractorul – UTB S.A. Braşov.

b. GRANTS / PROJECTS WON BY COMPETITION OR CONTRACTS WITH THE SOCIO-ECONOMIC ENVIRONMENT - TEAM MEMBER

- 1 Platform for innovative technological development (PLADETINO), contract no.: 13/ 2008, Cod CNCISIS 78, time: 2006-2008, years progress: 3.
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- 4 Bridge Grant: Improvement of the water jet and abrasive technology on Hardox steel parts, time: 2016-2017, years progress: 2.
- 5 Impact/Capacities Program: The Institute for Scientific Research of Transylvania University of Brasov: High-tech products for sustainable development PRO - DD, no.11/2009/ ID: 123/ SMIS: 2637, the coordinator of the department D-18 Quality Managment.
- 6 Researches on increasing the reliability of bearings used in locking the vehicle pivots, National Program ORIZONT 2000, Contract no. 284/1999-B4. The beneficiary: The National Agency for science, technology and innovation, General Division National Management Plan.
- 7 Measurement and analysis of bearings vibration levels, Contract no. 2/21.01.1997. The beneficiary: S.C. IAME S.A. Sf. Gheorghe.
- 8 Measurement and analysis of bearing vibration levels according to STAS 7653/3, Contract no. 11/19.03.1997. The beneficiary: S.C. Electroprecizia S.A. Săcele.
- 9 Studies, theoretical and experimental research on the technological precision of the construction elements and the level of vibrations emitted by bearings, National Program 4.1 - Technological development in machine building, Contract no. 46C/1994-B59. The beneficiary: Ministry of Research and Technology.
- 10 Studies and theoretical and experimental studies on the movement uniformity of the bearings, National Program 4.1 - Technological development in machine building, Contract no. 46C/1994-B60. The beneficiary: Ministry of Research and Technology.
- 11 Research on the relation between the level bearings vibration and the wavelength equivalent bodies in

- the contact area, National Program 4.1 - Technological development in machine building, Contract no. 675C/1992-B30. The beneficiary: Ministry of Research and Technology.
- 12 Study on constructive variants of torsional vibration dampers for establishing a low bronze consumption variant, 1989. The beneficiary: S.C. Master-S.A. București, Filiala Brașov.
 - 13 1230 – L6 – DTI engine development. Study and design of a functional model. 1989. The beneficiary: S.C. Roman-S.A. Brașov.
 - 14 Design and manufacturing of a 2404 – 602F engine, 1989. The beneficiary: S.C. Tractorul – UTB S.A. Brașov.
 - 15 Design and manufacturing of a 550 – L6 – D (T) engine, 1988. The beneficiary: S.C. Tractorul – UTB S.A. Brașov.
 - 16 Development of the family of four and six-cylinder engines, naturally aspirated and turbo-supercharged, 392 – L4 – D (TI) and 588 – L6 – D (TI). Study and design of a functional model, 1988. The beneficiary: S.C. Roman-S.A. Brașov.
 - 17 Constructive optimization to increase rigidity and eliminate machining deformations of the wheel cover of engine 1240 – V8 – DT, 1988. The beneficiary: S.C. Roman-S.A. Brașov.
 - 18 Design and development of the mining D121 – MA (N) engine for normal and grizu working conditions, 1988. The beneficiary: S.C. Roman-S.A. Brașov.
 - 19 Technological and constructive optimization of the 1240 – V8 – DT engine connecting rod, 1987. The beneficiary: S.C. Roman-S.A. Brașov.
 - 20 Design and manufacturing of a 1430 – V8 – DT engine, 1987. The beneficiary: S.C. Roman-S.A. Brașov.

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