

## Monitoring of conditions of agricultural machines' parts in operation

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### Abstract

POLÁK P., MIKUŠ R., KROČKO V., 2014. Monitoring of conditions of agricultural machines' parts in operation. Res. Agr. Eng., 60 (Special Issue): S57–S65.

This contribution focuses on problems of monitoring the runout of tractor diesel motor parts used in agricultural operation. Crankshafts from the agricultural tractors of type Zetor 6911 are used as samples for measuring the runout and circularity. The first sample of the crankshaft is loaded in the tractor used in livestock production, and the second one is used in vegetable production. Measured values of the runout and circularity of both samples are evaluated by tables and polar diagrams. Results of the experiment show the amount of runout and the following wear of agricultural machine parts in different operating conditions of agricultural production.

**Keywords:** crankshaft; deviation; circularity; runout measurement; wear

The importance of usage of agricultural equipment is in elimination of any hard work (LÍSKA 2008; PONIČAN, KORENKO 2008). The wear of several parts and a decrement of machine operability occur during the usage of agricultural equipment in the manufacturing process (PÁLMIK 2007). The lifetime of agricultural machines has to be dealt with when economic effectiveness is the topic. Depreciation charge, return on investment and operation expenditures ratio put into machinery and technico-economic evaluation of used and new machines and technologies along with their appropriate reproduction could not be done without knowing the lifetime. Agricultural machinery lifetime knowledge is essential for manufacturer production amount and selection of machines and spare parts (Kročko et al. 2007). Lifetime optimisation rules are valid generally, in the present economical environment too. The machinery should be replaced after an optimum operation time, in the moment of the lowest unit operation costs (DRUŠČKA, MIKUŠ 2007).

An example can be the crankshaft of the agricultural tractor. This contribution deals with problems of monitoring the runout of tractor diesel motors parts that are used in agricultural operation. Measurements of runout and circularity are accomplished on the crankshafts of the agricultural tractors of type Zetor 6911 (Zetor Brno, Czech Republic). Measured values of runout and circularity are evaluated by tables and polar diagrams in the experiment. The results allow comparing the amount of runout and the following wear of individual machine parts in different agricultural operations.

Turbocharged diesel engine is currently the most preferred for medium-sized drives in drive units (tractors, trucks, marine drives). In addition, continually increasing share in the highly competitive automotive market due to its reliability, combines with very low fuel consumption. During the past decade, mathematical modeling has paved the way for an in-depth study of diesel engines. However, most research has focused on thermodynamics,

# Agricultural Machines Theory Of Operation Computation Of Controlling Parameters And The Conditions Of Operation

**Daoliang Li, Chunjiang Zhao**



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### **Table of Contents Agricultural Machines Theory Of Operation Computation Of Controlling Parameters And The Conditions Of Operation**

1. Understanding the eBook Agricultural Machines Theory Of Operation Computation Of Controlling Parameters And The Conditions Of Operation
  - The Rise of Digital Reading Agricultural Machines Theory Of Operation Computation Of Controlling Parameters And The Conditions Of Operation
  - Advantages of eBooks Over Traditional Books
2. Identifying Agricultural Machines Theory Of Operation Computation Of Controlling Parameters And The Conditions Of Operation
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms

## **Agricultural Machines Theory Of Operation Computation Of Controlling Parameters And The Conditions Of Operation**

- 
- Features to Look for in an Agricultural Machines Theory Of Operation Computation Of Controlling Parameters And The Conditions Of Operation
  - User-Friendly Interface
4. Exploring eBook Recommendations from Agricultural Machines Theory Of Operation Computation Of Controlling Parameters And The Conditions Of Operation
    - Personalized Recommendations
    - Agricultural Machines Theory Of Operation Computation Of Controlling Parameters And The Conditions Of Operation User Reviews and Ratings
    - Agricultural Machines Theory Of Operation Computation Of Controlling Parameters And The Conditions Of Operation and Bestseller Lists
  5. Accessing Agricultural Machines Theory Of Operation Computation Of Controlling Parameters And The Conditions Of Operation Free and Paid eBooks
    - Agricultural Machines Theory Of Operation Computation Of Controlling Parameters And The Conditions Of Operation Public Domain eBooks
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    - Agricultural Machines Theory Of Operation Computation Of Controlling Parameters And The Conditions Of Operation Budget-Friendly Options
  6. Navigating Agricultural Machines Theory Of Operation Computation Of Controlling Parameters And The Conditions Of Operation eBook Formats
    - ePub, PDF, MOBI, and More
    - Agricultural Machines Theory Of Operation Computation Of Controlling Parameters And The Conditions Of Operation Compatibility with Devices
    - Agricultural Machines Theory Of Operation Computation Of Controlling Parameters And The Conditions Of Operation Enhanced eBook Features
  7. Enhancing Your Reading Experience
    - Adjustable Fonts and Text Sizes of Agricultural Machines Theory Of Operation Computation Of Controlling Parameters And The Conditions Of Operation
    - Highlighting and Note-Taking Agricultural Machines Theory Of Operation Computation Of Controlling Parameters And The Conditions Of Operation

# **Agricultural Machines Theory Of Operation Computation Of Controlling Parameters And The Conditions Of Operation**

- 
- Interactive Elements Agricultural Machines Theory Of Operation Computation Of Controlling Parameters And The Conditions Of Operation
8. Staying Engaged with Agricultural Machines Theory Of Operation Computation Of Controlling Parameters And The Conditions Of Operation
    - Joining Online Reading Communities
    - Participating in Virtual Book Clubs
    - Following Authors and Publishers Agricultural Machines Theory Of Operation Computation Of Controlling Parameters And The Conditions Of Operation
  9. Balancing eBooks and Physical Books Agricultural Machines Theory Of Operation Computation Of Controlling Parameters And The Conditions Of Operation
    - Benefits of a Digital Library
    - Creating a Diverse Reading Collection Agricultural Machines Theory Of Operation Computation Of Controlling Parameters And The Conditions Of Operation
  10. Overcoming Reading Challenges
    - Dealing with Digital Eye Strain
    - Minimizing Distractions
    - Managing Screen Time
  11. Cultivating a Reading Routine Agricultural Machines Theory Of Operation Computation Of Controlling Parameters And The Conditions Of Operation
    - Setting Reading Goals Agricultural Machines Theory Of Operation Computation Of Controlling Parameters And The Conditions Of Operation
    - Carving Out Dedicated Reading Time
  12. Sourcing Reliable Information of Agricultural Machines Theory Of Operation Computation Of Controlling Parameters And The Conditions Of Operation
    - Fact-Checking eBook Content of Agricultural Machines Theory Of Operation Computation Of Controlling Parameters And The Conditions Of Operation
    - Distinguishing Credible Sources
  13. Promoting Lifelong Learning
    - Utilizing eBooks for Skill Development
    - Exploring Educational eBooks



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- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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