

Stress Analysis of Connecting Rod using FEA

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Abstract— IC engine is heart of any vehicle, while in running conditions different components of engine undergoes static and dynamic loadings. The main aim of paper is to analyze static stresses developed in connecting rod. Dimensions are measured from connecting rod and CAD model is developed in Pro-E 2.0 and ANSYS software is used for static analysis of connecting rod. This method is known as Finite Element Analysis by Simulation in which Pro-E and ANSYS Software packages are used for simulation. The main advantage of using simulation is to save time and cost involved in analysis. The input conditions like time and money, Material Properties, static load, boundary conditions etc. are given. The loads on the connecting rod were obtained as a function of crank angle.

Keywords—Static Analysis, FEA, Simulation

1. INTRODUCTION

Since early atmospheric engines the transfer of energy from expansion chamber of an engine to develop a device that supplied the work has done with a series of linkages. These linkages were crucial to harness the power being produced by engines. As the engines developed in the 20th century and the modern day internal combustion engine started to be mass produced, the importance of the connecting rod as well as the crank shaft was essential, to the operation of a reliable engine. Time and effort were necessary to create the best design for a connecting rod to allow it to handle high stresses while minimizing weight. The reduction of weight of connecting rods is important to ensure that the engine can operate safely in higher RPM's due to the decreased inertia held within the lighter rods. The goal has become to remove as much material from these rods while still maintaining their strength and integrity so as to safely perform under the conditions of each engine.

Throughout the production of these internal combustion engines the power produced has steadily been increasing, leading to increased forces being developed in modern day engines. For example: in 2001 General Motors released a new and improved Diesel truck with a Duramax Diesel engine. The rated horsepower was 300 and the torque of this engine was 500 lb-ft. General Motors has revised the engine five times since its release; however, its internals have only seen minor changes. Its current 2011 version is producing 400 horsepower and 765 lb-ft of torque.

These increases of 125% in horsepower and 153% in torque while utilizing the same block illustrate the need for a good

understanding of the forces generated in the engine as well as the way each of the components deal with this force. The connecting rod directly sees the force applied to the crank and drive train as it translates the linear motion of the stroke of the piston to the rotational movement of the crank. If the connecting rod was to fail, catastrophic damage would occur to the engine requiring costly repairs.

Therefore, it is important for engineers to properly determine the stresses present within the rod to ensure that even under its worst conditions it will still perform without yielding or failing altogether. By being able to model the connecting rod and determining the forces present on it under all conditions it is possible to use programs such as ANSYS to determine the stresses developed within the connecting rod.

Material Selected	Carbon Steel
Young's Modulus	2×10^5 MPa
Poisson's Ratio	0.3
Tensile Yield strength	415 MPa
Density	7850 kg/m ³
Behavior	Isotropic

Table.1. Material properties of connecting rod

2. LITERATURE REVIEW

H.B.Ramani has do Analysis of Connecting Rod under Different Loading Condition Using ANSYS Software [1]. Finite element codes are less complicated than many of the word processing and spreadsheet packages found on modern microcomputers. Nevertheless, they are complex enough that most users do not find it effective to program their own code. Asadi, et al (2010) [2] developed detailed load analysis under service loading conditions was performed for connecting rod and The conclusions can be drawn from this study as follows the maximum pressure stress was obtained between pin end and rod linkage and the maximum tensile stress was obtained in lower half of pin end. The crank and piston pin ends are assumed to have a sinusoidal distributed loading over the contact surface area, under tensile loading. This is based on experimental results. [3]

3. FEA MODELING OF CONNECTING ROD

a) *Defining geometry of the Connecting Rod:*

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