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184 . SURFACE MODIFICATION OF TITANIUM NITRIDE ON TOOL STEEL BY ELECTRICAL DISCHARGE MACHINING IN UREA SOLUTION (https://iaeme.com/Home/article_id/IJMET_10_02_184)

Voravit Nakwatananukool (https://iaeme.com/Home/author_details/8092) ; Apiwat Muttamara (https://iaeme.com/Home/author_details/8093)

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EFFECT OF SPRAY TIME ON FUEL ON LOSS OF COMBUSTION OF NISSAN UD50 DIESEL MOTORS

Daniel Parenden, Peter Sahupala and Klemens A. Rahangmetan
Mechanical Engineering Department, Faculty of Engineering, Universitas Musamus, Merauke, Indonesia

ABSTRACT

Automatic timer on the injection pump, with an automatic timer spring or spring, experiencing wear or reduced pressure. As a result of the wear of the automatic timer spring, the fuel spraying time is delayed especially when operating with heavy loads, the motor can not reach normal power even sometimes the motor dies suddenly. The purpose to be achieved in this paper is to find out how much heat loss from combustion due to the delay in spraying fuel. The research was conducted at PT. Salam Pasifik Indonesia Lines Merauke branch. The method used in this writing is based on secondary data. The data taken is data specifications of Nissan UD50 Diesel motor which is the driving motor for heavy equipment, besides that, also data on fuel consumption in normal conditions and fuel consumption when there is a delay in spraying fuel. The calculation results show that the occurrence of slowness in spraying this fuel will have an impact on the amount of heat produced in combustion, with normal conditions the amount of fuel combustion heat is 33633 Kcal / hour, while the amount of fuel combustion due to late spraying is 26936.7 Kcal / hour, which means that there is an energy loss of 6696.3 Kcal / kg or a power loss of around 10.44 HP.

Keywords: Automatic Timer, Burning Heat Loss, Nissan UD50

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http://iaeme.com/Home/issue/IJMET?Volume=10&Issue=2

1. INTRODUCTION

Combustion is a chemically fast compounding process between oxygen and fuel. The combustion process that occurs in the combustion chamber with a system of spraying certain fuels with fuel is atomized in the combustion chamber by the atomizer through the nozzle hole and distributed evenly on the piston cross section.

The fuel injection timing tuning coupler installed on the injection pump and connected to the injection pump drive shaft serves to continue the rotation of the gears to the fuel injection

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INVESTIGATION OF STABILITY CRITERIA OF BATANG TYPE TRADITIONAL FISHING BOAT UNDER 25 M FOR SAFETY AT SEA

Imam Pujo Mulyatno, Kiryanto, and Deddy Chrismianto
Department of Naval Architecture, Engineering Faculty,
Diponegoro University, Indonesia.

ABSTRACT

In this study, will be analyzed regarding the stability of the Batang type traditional fishing boat under 25 m is widely available in Indonesia already meet safety requirements seagoing or not, given the fishing boat of this type was developed traditionally by fishermen, where the resulting design is not planning through design phase, so often a ship that has been made does not have a reliable technical specifications. To solve this problem, the survey to retrieve data from 5(five) different types of traditional fishing boat below 25 m at Kabupaten Batang are carried out, then do redrawing of the existing ship, and finally the technical analysis of the design of the traditional fishing vessel for stability criteria is done. The recommendations for the design of traditional fishing boat under 25 m are given in this study corresponding safety criteria seagoing so beneficial to the safety of fishermen doing fish catching in the sea.

Key words: Ship stability, traditional fishing boat, safety criteria.

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http://iaeme.com/Home/issue/IJMET?Volume=10&Issue=2

1. INTRODUCTION

With these conditions, it would require a lot more fishing boats to catch it. While in Indonesia the average small size of the fishing boats under 25 m, and still is developed traditionally by the craftsmen of traditional vessels that have recognized expertise and experience in building a ship. However, because in terms of ship design that still rely on intuition, then design produced not through planning and calculation of a comprehensive picture, which often occurs ships that have been made do not have a reliable technical specifications and safety seagoing not be protected properly.

A study of the safety of sailing and efficiency of fishing boat states that the average fishing boats often have impaired at sea, be it damage even drowned because stability is not good, and only a few fishing boats that managed to take a trip with a success each year, Peyelesaian key issue here is the need for a competent technical attention to design [1]. At this time most small

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SURFACE MODIFICATION OF TITANIUM NITRIDE ON TOOL STEEL BY ELECTRICAL DISCHARGE MACHINING IN UREA SOLUTION

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ABSTRACT

The recast layer of surface modification is studied by electrical discharge machining (EDM) on tool steel. An experiment is carried out using a titanium electrode grade 1 and dielectric media of urea solution, containing nitrogen element. The morphology, microstructure, element composition and compound of recast layer are characterized by scanning electron microscopy, electron dispersion spectroscopy and X-ray diffraction. It is composed of dark grey and light grey layer. Titanium nitride (TiN) layer is formed on dark grey layer, while light grey layer is composed of titanium, chromium, iron and carbon elements. The results reveal that a 40 □m thickness of recast layer is composed of 15 -20 □m thickness of dark grey layer and 25-40 □m thickness of light grey layer. The concentrations of urea solution and recast layer thickness are studied for relationship, including average surface roughness and EDM current. The microhardness of recast layer and substrate are also investigated and compared.

Keywords: Electrical discharge machining, Microhardness, Surface modification, Titanium nitride, Urea solution.

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1. INTRODUCTION

Tool steel grade JIS SKD 11 has been widely used in many applications, such as mold and die. It is a high carbon and chromium alloy tool steel used for making long life and high precision of cold work dies. This tool steel has a good property in term of wear resistance. However, the surface modification of tool steel is still attractive in industrial work due to it can enhance and improve the properties in term of mechanical, chemical, or electrical characteristics on material surface.