

Diesel Engine Fault Diagnosis with Vibration Signal

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Abstract

When the vibration of diesel engine structure is measured, the signal is composed of a very complex superposition of the contributions of different vibratory sources modified by their respective transmission paths. These sources originate from several internal phenomena in the engine such as combustion pressure variation, unbalanced reciprocating and rotating parts. In a diesel engine, movement parts work in a specific order. Once the starting point is determined, occurrence of work order in different cycle phases can be determined. This could successfully use to identifying of impulses in complex vibration signal of a diesel engine. From the variation of features of those impulses, it is possible to determine the working condition of the engine. This can use to fault diagnosis of diesel engine, specially faults related to combustion process.

Keywords

Vibration Monitoring, Valve Clearance, Valve Timing Diagram, Injection Fault

1. Introduction

Diesel engines are most widely used power plant in the world with wide range of applications. They convert chemical energy of diesel fuel into the mechanical energy which converts to useful work such as drive ships, vehicles, power generators, etc. Diesel engine is a mechanical device, so defects in mechanical systems due to various reasons are general phenomena. Therefore, engineers are doing continuous researches to find optimal fault detection system for diesel engine in order to monitor the health condition of the engine. Several types of signals can be measured for monitoring purpose including rotational angle speed [1], temperature [2], fuel and oil quality [3] [4], and vibration [5] [6] [7].

During the process of energy conversion in diesel engine, several parameters

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Systems of Commercial Turbofan Engines Andreas Linke-Diesinger, 2008-05-21 Systems of Commercial Turbofan Engines gives the reader information about the operation of the engine systems its components and the terminology used throughout the industry The engine systems are explained by the use of examples from today s engines So the readers from aircraft mechanics to commercial pilot become familiar with the current technology in this field and attains a deeper knowledge of the systems of commercial turbofan engines To understand the operation of gas turbine engines used in aircraft it is not enough to understand the basic operation of a gas turbine It is also necessary to understand the operation and the design of its auxiliary systems This book is an introduction into the systems of modern commercial aircraft gas turbine engines It is made for the reader who is familiar with the basic operation of aircraft gas turbine engine VW Golf & Jetta Automotive Repair Manual ,1997 Total Car Care is the most complete step by step automotive repair manual you ll ever use All repair procedures are supported by detailed specifications exploded views and photographs From the simplest repair procedure to the most complex trust Chilton s Total Car Care to give you everything you need to do the job Save time and money by doing it yourself with the confidence only a Chilton Repair Manual can provide **Technical Abstract Bulletin** , **Motor's Auto Repair Manual** ,1955 Chance Vought F7U Cutlass Pilot's Flight Operating Instructions United States Navy, USN, 2008-09-01 Chance Vought s F7U Cutlass was inspired by design data retrieved from Germany s Arado Company at the end of WWII To avoid extreme nose down forces the Cutlass was a tail less aircraft Its swept wings had vertical fins and aileron control surfaces Although intended to operate at up to Mach 95 the aircraft was hampered by under powered Westinghouse turbojets and its nose up profile made carrier landings dangerous Although its in flight performance was acceptable the Navy initially rejected the plane as unfit for carrier use While nearly 200 F7U 3s were eventually delivered they were retired only five years after their introduction Originally printed by the U S Navy this F7U 3 Flight Operating Manual taught pilots everything they needed to know before entering the cockpit Classified Restricted it was recently declassified and is here reprinted in book form This facsimile has been reformatted Care has been taken however to preserve the integrity of the text **Douglas Service** ,1950 **Proceedings of the International ISA Aerospace Instrumentation Symposium** ,1969 **The Air Force Comptroller** ,1974 **Proceedings** ,1969 **System Safety** United States. Air Force. Systems Command, 198? *SAE Aerospace Standards* ,1986 The Engineer ,1871 **Aeronautical Engineering** ,1976 A selection of annotated references to unclassified reports and journal articles that were introduced into the NASA scientific and technical information system and announced in Scientific and technical aerospace reports STAR and International aerospace abstracts IAA **Practical Solution of Torsional Vibration Problems** William Ker Wilson, 1965 *English Mechanic and Mirror of Science and Art* ,1875 **Practical Experience with Shipboard Automation** Institute of Marine Engineers, 1974 **Government Reports Index** ,1971 **Annual Index**

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