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# Ford Focus Duratorq Tdci With Dpf Diesel Particulate Filter

**Ian Patrick Tracy**



## **Ford Focus Duratorq Tdci With Dpf Diesel Particulate Filter:**

Diesel Particulate Filter Technology Timothy V Johnson, 2007-03-28 Until recently the complexity of the Diesel Particulate Filter DPF system has hindered its commercial success Stringent regulations of diesel emissions has lead to advancements in this technology therefore mainstreaming the use of DPFs in light and heavy duty diesel filtration applications This book covers the latest and most important research in DPF systems focusing mainly on the advancements of the years 2002 2006 Editor Timothy V Johnson selected the top 29 SAE papers covering the most significant research in this technology

**Particle Filter Retrofit for All Diesel Engines** Andreas Mayer, 2008 Impact of Particulate Matter Composition on Catalyzed Diesel Particulate Filter Filtration and Regeneration on a Steady State Research Diesel Engine Matthew Bohm, 2005 **Diesel Particulate Filter (DPF) Regeneration by Electrical Heating of Resistive Coatings**, 2008 An

exhaust system that processes exhaust generated by an engine includes a diesel particulate filter DPF that is disposed downstream of the engine and that filters particulates from the exhaust An electrical heater is integrally formed in an upstream end of the DPF and selectively heats the exhaust to initiate combustion of the particulates within the exhaust as it passes therethrough Heat generated by combustion of the particulates induces combustion of particulates within the DPF

*Loading and Regeneration Analysis of a Diesel Particulate Filter with a Radio Frequency-Based Sensor*, 2010 Accurate knowledge of diesel particulate filter DPF loading is critical for robust and efficient operation of the combined engine exhaust aftertreatment system Furthermore upcoming on board diagnostics regulations require on board technologies to evaluate the status of the DPF This work describes the application of radio frequency RF based sensing techniques to accurately measure DPF soot levels and the spatial distribution of the accumulated material A 1.9L GM turbo diesel engine and a DPF with an RF sensor were studied Direct comparisons between the RF measurement and conventional pressure based methods were made Further analysis of the particulate matter loading rates was obtained with a mass based soot emission measurement instrument TEOM Comparison with pressure drop measurements show the RF technique is unaffected by exhaust flow variations and exhibits a high degree of sensitivity to DPF soot loading and good dynamic response Additional computational and experimental work further illustrates the spatial resolution of the RF measurements Based on the experimental results the RF technique shows significant promise for improving DPF control enabling optimization of the combined engine aftertreatment system for improved fuel economy and extended DPF service life **Influence of Engine Operating**

**Condition and Aftertreatment Component Selection on Diesel Particulate Filter Operation** Eric L. Schroeder, 2006

**Performance Effects and Causal Mechanisms of Mid-channel Congestion in Diesel Particulate Filters** Ian Patrick Tracy, 2021 The diesel particulate filter DPF is a 5 000 50 000 USD critical component of aftertreatment systems installed in diesel engine powered vehicles The device is designed to trap particles emitted by the diesel combustion process in order to prevent their release into the surrounding environment thereby reducing pollution levels and mitigating

greenhouse gas emissions Increasing stringency of emissions regulations has progressively necessitated the installation of DPFs on diesel powered vehicles over the past few years with the DPF market expected to remain significant in size at least through 2025 While DPFs nominally operate by trapping and accumulating incoming PM continuously in the far downstream plug region of the filter channels so that no gaps form between trapped particulate matter PM agglomerates both real world field and laboratory bench tests have demonstrated that channel spanning ash agglomerates form well upstream of the end plug region prematurely clogging the mid channel region This effectively renders useless the remaining open space in the channel downstream of the blockage location In addition to mid channel congestion this adverse phenomenon is referred to in the literature interchangeably as mid channel collapse MCC mid channel clogging and mid channel deposits MCD MCC due to accelerated filling of the filter channels often results in significantly reduced DPF lifetime and performance i e increased backpressure yielding depressed fuel economy both of which prove costly for diesel vehicle operators Existing hypotheses regarding causality of MCC are largely based on inconclusive empirical observations and not substantiated by fundamental quantitative analysis The primary contributions of this dissertation include 1 summarizing hypothesized causal mechanisms of MCC with an emphasis on sintering as a primary driver thereof 2 introducing a method by which to analyze X Ray CT scans that show MCC in DPF channels 3 assessing the performance penalty associated with MCC by correspondingly extending the industry standard model for pressure drop across a DPF and 4 suggesting modifications to the DPF regeneration process in order to prevent sintering of ash agglomerates to the DPF side walls based on an efficient reformulation of the prevalent temperature history model of the DPF that solves for both flow and temperature conditions inside filter channels over time during active regeneration

**Filtration and Regeneration Mechanisms in Diesel Particulate Filters Influence on Filter Performance** Niklas M. Schmidt, 2006 [An Improved Visualization of Diesel Particulate Filter](#) Kevin W. Boehm, Massachusetts Institute of Technology. Department of Mechanical Engineering, 2011 The prevalence of diesel particulate filters DPF is increasing as emissions standards worldwide evolve to match current technologies Since the first application of DPFs in the 1980 s PM trapping effectiveness has increased by orders of magnitude During the filter s use phase it is subject to multiple cycles of particulate matter trapping and regeneration The soot particles are combusted in the high temperatures however metal additives referred to as ash primarily from lubricants remain behind and restrict exhaust flow Further ash accumulation causes a pressure drop across the filter and necessitates replacement in order to maintain fuel economy and engine performance Research into more efficient DPF designs and geometries examines current limitations with the goal of emitting cleaning emissions and extending DPF use In order to gain a better understanding of PM trapping and regeneration and acquire real time feedback an improved visualization method of DPF is required For that method powder glass frit was applied between the filter and glass window and heated to form a bond After the heating process the bond strength was measured to determine optimal heating cycles and surface conditions

for the glass seal The experimental results were examined to measure the success of the bonding method relative to previous research using alternative methods The ability to test and observe ash accumulation in different DPF designs will contribute to the understanding of PM trapping

Modeling and Analysis of Particulate Matter Deposition and Regeneration in a Diesel Particulate Filter Mengting Yu, 2013 Diesel engines are widely used because of their high efficiency and low greenhouse gas emission The particulate matter PM emitted by a diesel engine is collected and then burned in a diesel particulate filter DPF Analysis and modeling works have been done in this research to provide insight on optimization of the DPF design and operating conditions to achieve low pressure drop across the filter to decrease fuel consumption and low peak temperature during regeneration to avoid filter melting cracking and or catalyst deactivation Limiting models of the 1 D two channel DPF model are analyzed Analytical predictions and physical insight on the filtration velocity pressure drop heat transfer light off and regeneration in a DPF are obtained The hydraulic analysis enables an efficient optimization of the DPF that lead to a more uniform PM deposition profile and a decrease of the pressure drop The heat transfer light off and regeneration analysis enable estimations of the DPF heat up time the speed and width of the temperature front the light off temperature and time and the peak regeneration temperature New DPF regeneration procedures are proposed to limit the maximum local temperature rise In various cases a DPF is connected by a wide angled cone diffuser to the engine exhaust pipe A 2 D axisymmetric PM deposition and regeneration model is developed to investigate the impact of the inlet cone on the deposition rate and the regeneration temperature as well as on the transient inlet velocity distribution among the various DPF channels The highest regeneration temperature and thermal stress when using an inlet cone may be quite higher than when it is absent A major technological challenge in the regeneration of the ceramic cordierite filter is that a sudden decrease of the engine load referred to as Drop to Idle DTI may create a transient temperature peak much higher than under either the initial or final stationary feed conditions This excessive transient temperature rise may cause local melting or cracking of the ceramic filter Suggestions on how to limit the peak temperature rise following a DTI are provided through numerous simulations of the 1 D and 2 D DPF regeneration models

**Characterizing Ash and Substrate Properties in Sintered Metal Fiber Diesel Particulate Filters Using an Advanced Diagnostic Approach** Paul John Folino, 2015 In order to comply with strict air emissions regulations applicable diesel engines are required to have an installed after treatment device A diesel particulate filter DPF is one of these aftertreatment devices and it is used to capture hazardous particulate matter PM from the engine exhaust stream Over the lifetime of the DPF incombustible materials like ash are deposited within the DPF The presence of ash inhibits the exhaust flow and thus causes flow restriction throughout the filter This increase in the flow restriction due to ash accumulation has an adverse effect on engine performance primarily a reduction in fuel economy While the global effects of ash on engine performance are well researched and understood the fundamental mechanisms of ash phenomenology in the DPF require further understanding Current experimental data mainly

addresses how ash porosity and permeability influence pressure drop across the filter but an investigation of these properties reveals how other key sub parameters such as ash particle size and distribution and filter oxidation level significantly contribute to an increase in pressure drop as well The focus of this work is to understand the behavior of ash particles in a sintered metal fiber SMF filter substrate and recognize the resultant effect on DPF pressure drop using an advanced diagnostic approach Much of the work relies on the use of sophisticated imaging and software tools to quantify properties such as particle size particle distribution filter porosity and permeability among others Additionally this research introduces and demonstrates the capabilities of these cutting edge tools and how they can best be utilized to provide filter performance data to qualify existing and future experimental data for SMF or cordierite filters An analysis of the data reveals a statistically significant dependence between pressure drop and the aforementioned sub parameters Diesel Particulate Emissions Landmark Research 1994-2001 John H Johnson,2002-02-20

The need for manufacturers to meet U S Environmental Protection Agency EPA mobile source diesel emissions standards for on highway light duty and heavy duty vehicles has been the driving force for the control of diesel particulate and NOx emissions reductions Diesel Particulate Emissions Landmark Research 1994 2001 contains the latest research and development findings that will help guide engineers to achieve low particulate emissions from future engines Based on extensive SAE literature from the past seven years the 45 papers in this book have been selected from the SAE Transactions Journals **The Effects of Filtration**

**Velocities and Particulate Matter Characteristics on Diesel Particulate Filter Wall Loading Performance** Ekathai Wirojsakunchai,2008 **Diesel Particulate Filter Regeneration with an External Burner** Kenneth Michael Follen,2007

Abstract Particulate matter has been identified by health agencies as a health risk and suspected of causing acute and chronic damage to the pulmonary and cardiovascular systems Since diesel engines are well known for their soot production legislation has been adopted to regulate the release of particulate matter into the atmosphere As these emissions standards become increasingly stringent new methods of emission control become necessary Of the options currently available particulate filters appear to be the most promising solution to meet and exceed these emission standards Particulate traps have been shown to successfully filter out up to 90 % of particulate matter However as particulate traps filter particulate matter they become filled resulting in an increase in the exhaust back pressure To alleviate this increase in pressure the filter must be regenerated i e the particulate matter must be ignited and burned away leaving a clean trap Of the current regeneration methods active regeneration via an external burner is one of the more robust methods The scope of this work is to design a fuel fired heater for the purpose of supplying sufficient quantities of heat to elevate the exhaust temperature to the point at which diesel particulate filter DPF regeneration will occur As a precursor to the design an in depth literature review on the current state of the art as well as calculations of the design **Modeling and Interpreting the Observed**

**Effects of Ash on Diesel Particulate Filter Performance and Regeneration** Yujun Wang (Ph. D.),Massachusetts

Institute of Technology. Department of Mechanical Engineering, 2014 Diesel particulate filters DPF are devices that physically capture diesel particulates to prevent their release to the atmosphere Diesel particulate filters have seen widespread use in on and off road applications as an effective means for meeting increasingly stringent particle emissions regulations Although the soot deposit can be removed by regeneration the incombustible material ash primarily derived from metallic additives in the engine lubricant accumulates in the DPF channels with the increasing vehicle mileage or equivalent running hours Ash accumulation inside filter increases the flow restriction and reduces the filter soot storage capacity which results in higher filter regeneration frequencies and larger engine fuel penalty Combined with experimental observations DPF models are built to investigate the fundamental mechanisms of DPF aging process The DPF soot and ash loading model based on porous media filtration theory is applied to understand the soot deposition across the substrate wall with soot and ash cake layer formation DPF models are also used to investigate the process of ash transport and catalyst deactivation with increasing ash load level DPF ash aging is found to have negative effect on passive regeneration due to the catalyst deactivation and diffusion resistance of ash cake layer Besides at given amount of ash load the effects of ash spatial distribution on DPF performance are studied via simulation It is found that the ash end plug has significant influences on DPF pressure drop while ash radial and axial distributions have minor effects At known ash and substrate property DPF performance can be optimized according the sensitivity map developed from this study DPF model is beneficial to interpret the experimental observations and it is applied to predict the effects of certain factors like flow rate and deposit level on DPF performance At the same time modeling results are useful in optimizing the design of the combined engine aftertreatment lubricant system for future diesel engines and in understanding the requirements for robust aftertreatment systems

Advanced Doc-dpf Model to Predict Soot Accumulation and Pressure Drop in Diesel Particulate Filters Alessandro Cozzolini, 2014 **Rational design of a robust diesel particulate filter**, 2002 *Assessment of Auto-regeneration of Diesel Particulate Filters by Fuel Additive(s)*, 1984 An evaluation of the performance of ceramic diesel particulate filters DPFs with manganese copper fuel additive over atypical mining duty cycle has been completed **System and Method of DPF Passive Enhancement Through Powertrain Torque-speed Management**, 2015 This disclosure provides a method and system for determining recommendations for vehicle operation that reduce soot production in view of a diesel particulate filter DPF of an exhaust aftertreatment system Recommendations generated can reduce excessive particulate matter PM production during transient engine events and provide for operating conditions favorable for passive regeneration In this way less frequent active regeneration of the DPF is needed and or more opportunities are provided for passive regeneration The system and method can utilize location and terrain information to anticipate and project a window of operation in view of reducing soot production and soot loading of the DPF or provide the operator with instruction when such opportunities are present or will soon be encountered Diesel particulate filter operation and maintenance, 2010

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