

IMPORTANT INFORMATION

When work is being carried out on the engine such as adjusting drive belts, changing oil or adjusting the clutch, it is important not to start the engine. The engine may be damaged and there is

A SERIOUS RISK OF INJURY

For this reason, always secure the starting device or disconnect a battery cable before working on the engine.

This is especially important if the engine has a remote starter or automatic starting. This warning symbol and text is reproduced inside these maintenance points where the risk of injury is particularly great.

Operator's Manual

DC12, DC13
EMS with S6/PDE

Industrial engine

apm_012ind_en-0801 1 820 780

COMMISSIONING REPORT - WARRANTY

When the commissioning report has been filled in and sent to Scania, you have a 1-year warranty from the date of commissioning.

Also fill in the particulars below so this can make things easier if you need to contact for example a service workshop.

Engine number	_____
Date of commissioning	_____
User's name and address	_____

Signature	_____
Engine type	_____
Variant	_____

Engine type and variant are indicated on the engine type plate

Foreword

This Operator's Manual describes the handling and maintenance of Scania DC12 and DC13 Industrial Engines with EMS S6/PDE injection systems.

The engines are of direct injection, liquid-cooled, four-cylinder, four-valve in-line diesel type. These engines have turbochargers and charge air coolers, see page 14.

Common applications are as prime units in construction machines, generator sets, earth-moving, railway and forestry machines as well as in auxiliary systems.

The engines can have different output and speed ratings.

The actual output rating of the engine (performance code) is indicated on the type plate, see page 14.

Note: Only standard components are described in the Operator's Manual. Please see the manufacturer's instructions regarding special equipment.

In order to obtain the best value and service life from your engine, there are several points you should bear in mind:

- Read the manual before starting to use the engine. Even though you may have experience of Scania engines you may find new information in this Operator's Manual.
- Follow the maintenance instructions. Good working order and service life are ensured if maintenance is carried out according to the instructions.
- In particular, read the safety information starting on page 6.
- Get to know your engine so that you know what it can do and how it works.
- If necessary, contact an authorized Scania workshop. They have special tools, genuine Scania parts and staff with training and practical experience of Scania engines.

Note: Always use genuine Scania parts during service and repair in order to keep your engine in the best possible working order.

The information in this manual was current at the time of going to press. However, we reserve the right to make alterations without prior notice.

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Important

During the warranty period, only genuine Scania parts may be used during service and repair; otherwise the warranty will be invalidated.

Scania User Manual

A. R. Bunsell



Scania User Manual:

Scientific and Technical Aerospace Reports, 1995 *Authorizations, Motor Vehicle Safety and Information and Cost Savings Acts* United States. Congress. Senate. Committee on Commerce, Science, and Transportation. Subcommittee for Consumers, 1979 **Computer Aided Optimal Design**, 1986 Discretization Methods and Structural Optimization — Procedures and Applications Hans A. Eschenauer, Georg Thierauf, 2012-12-06 In recent years the Finite Element Methods FEM were more and more employed in development and design departments as very fast working tools in order to determine stresses deformations eigenfrequencies etc for all kinds of constructions under complex loading conditions Meanwhile very effective software systems have been developed by various research teams although some mathematical problems e.g. convergence have not been solved satisfactorily yet In order to make further advances and to find a common language between mathematicians and mechanics the Society for Applied Mathematics and Mechanics GAMM agreed on the foundation of a special Committee Discretization Methods in Solid Mechanics focussing on the following problems Structuring of various methods displacement functions hybrid and mixed approaches etc Survey of approach functions Lagrange Hermite polynomials Spline functions Description of singularities Convergence and stability Practical and theoretical optimality to all mentioned issues single and interacting One of the basic aims of the GAMM Committee is the interdisciplinary cooperation between mechanics mathematicians and users which shall be intensified Thus on September 22 1985 the committee decided to hold a seminar on Structural Optimization in order to allow an exchange of experiences and thoughts between the experts of finite element methods and those of structural optimization A GAMM seminar entitled Discretization Methods and Structural Optimization Procedures and Applications was held on October 5 7 1988 at the University of Siegen **Moody's International Manual**, 2000 *Advances in Composite Materials* A. R. Bunsell, 2013-10-02 *Advances in Composite Materials* is a collection of papers that discusses fiber reinforced composite materials pertaining to their mechanical and failure properties One paper explains the design and fabrication of a GrFRP concept car by the Ford Motor Company which uses as much as possible graphite fiber in the body chassis and powertrain Another paper discusses the sorption behavior of glass fiber reinforced composites as well as the influence of diffusing media on the deformation and failure behaviors One paper examines the physical elastic viscoelastic and inelastic properties of multiphase short fiber composite materials using the fiber aspect ratio fiber volume fraction and properties of the constituent phases as several variables Another paper describes a procedure to measure the changes in stiffness properties of a unidirectional fibrous composite such as glass fiber reinforced polyester caused by fatigue damage One application of carbon fiber reinforced thermoplastics is in a sleeve bush molded from nylon 66 containing 30 percent fiber reinforcement with PTFE and silicone oil The material has low frictional high wear performance characteristics The Penny and Giles Potentiometers Ltd use this component on a joystick for gun directional control The collection can prove useful for design

engineers materials engineers scientists involved with composite materials and industrial researchers in the fields of materials science

Organizational Identity in Practice Lin Lerpold, Davide Ravasi, Johan van Rekom, Guillaume Soenen, 2012-11-12 Organizational Identity in Practice provides much needed in depth studies on what happens when aspirations claims and beliefs interact Given the practical needs of managers and students this exciting new text provides readers with more insight into what differences in these identity aspirations claims and beliefs really mean and what we may expect to occur when these differences become visible and what the outcomes of these processes are likely to be The diverse case studies illustrate how well known firms have dealt with the broad issues of who we are as an organization and what makes us similar or distinct from others and cover a broad range of industries firms and organizational forms The cases from companies such as Air France AT T Bang Olufsen BP Statoil Starbucks Scania and Alfa Romeo are focused on the broad topics of organizational identity strategy and the environment multiple and conflicting identities the construction of identities and how organizations express and project their identities The authors give scholars students and managers valuable ideas on how to deal with organizational identity challenges within firms

Industrial Networks (Routledge Revivals) B Axelsson, G Easton, 2016-02-05 First published in 1992 this volume brings together contemporary studies and reviews the research which established the study of networks as an area in its own right By looking at the foundations of industrial networks and analysing network methodology and modelling this book offers an integrated and coherent approach to the whole area Covering small group analysis network change processes and implications for business strategy and presenting new ways to exploit inter organisational relationships in the face of change it tackles key issues with important implications for the future This book will be of interest to students of economics and business

Official Gazette of the United States Patent Office United States. Patent Office, 1959

National Highway Traffic Safety Administration--authorization and Oversight United States. Congress. House. Committee on Interstate and Foreign Commerce. Subcommittee on Consumer Protection and Finance, 1979

Technical Abstract Bulletin, 1979

Lowe's Transport Manager's and Operator's Handbook 2014 David Lowe, Clive Pidgeon, 2014-03-03 This best seller for busy fleet operators now in its 44th edition provides essential information and advice on transport legislation technical standards and goods vehicle operations Lowe's Transport Manager's and Operator's Handbook is a truly comprehensive guide to the legal operational and environmental factors that are of the utmost importance in today's road transport industry including professional competence working times and driving hours rules speed cameras and penalties the international road haulage market and drugs testing for drivers The Handbook is the essential reference source for any transport manager fleet operator owner driver haulier or student with an involvement in the industry

Automotive Transmissions Harald Naunheimer, Bernd Bertsche, Joachim Ryborz, Wolfgang Novak, 2010-11-09 This book gives a full account of the development process for automotive transmissions Main topics Overview of the traffic vehicle transmission system Mediating the power flow in vehicles Selecting the ratios Vehicle

transmission systems basic design principles Typical designs of vehicle transmissions Layout and design of important components e g gearshifting mechanisms moving off elements pumps retarders Transmission control units Product development process Manufacturing technology of vehicle transmissions Reliability and testing The book covers manual automated manual and automatic transmissions as well as continuously variable transmissions and hybrid drives for passenger cars and commercial vehicles Furthermore final drives power take offs and transfer gearboxes for 4 WD vehicles are considered Since the release of the first edition in 1999 there have been a lot of changes in the field of vehicles and transmissions About 40% of the second edition s content is new or revised with new data **The Commercial Motor** ,1980

Lowe's Transport Manager's and Operator's Handbook 2022 Glen Davies,David Lowe,2022-02-03 The United Kingdom has experienced the biggest changes to its freight and transport regulations in a lifetime Understand the complete rules and processes governing the UK s road transport operators with this guide including those that have changed with Brexit Lowe s Transport Manager s and Operator s Handbook 2022 offers a complete overview of the operational rules and guidelines governing the UK s road transport operator This book contains all the relevant legal and technical information required to run a compliant safe and efficient transport operation It includes all the latest changes to the rules and processes including those governing the transportation of goods between Great Britain and the EU following Brexit This fully updated 52nd edition remains an essential resource for transport managers fleet operators owner driver hauliers and those working in the sector It covers all aspects relating to goods vehicles and their operators from vehicle registration maintenance and load management including abnormal and dangerous loads to professional competence operator training and driver testing Road traffic law is explained alongside how to ensure safety on the road and at work Meeting operating standards keeping up to date with the latest industry changes and complying with the law all while running sustainable transport operations has never been simpler with the help of this guide **Lowe's Transport Manager's and Operator's Handbook 2019** David Lowe,Clive Pidgeon,2019-02-03 One of the biggest challenges facing you and the road transport industry is the constant introduction of new legislation In order to protect your business and avoid penalties equip yourself with the latest knowledge of updates to regulations with Lowe s Transport Manager s and Operator s Handbook 2019 Now in its 49th edition and endorsed by the Chartered Institute of Transport and Logistics Lowe s Transport Manager s and Operator s Handbook 2019 is the most comprehensive guide available to the operational rules and guidelines governing the UK Ireland and the EU s road transport operators This best selling exclusive handbook is an essential reference and explores in detail the most pressing issues in today s road transport industry It includes details on professional competence rules on working times and driving hours licensing and penalties insurance road traffic law maintenance advice and the international road haulage market This manual includes guidance for drivers in the Republic of Ireland and mainland Europe along with the rules and penalties governing these regions Lowe s Transport Manager s and Operator s Handbook 2019 is the essential reference

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Artificial Intelligence in Computational Engineering Michał Kleiber, 1990 This monograph on the use of AI techniques in engineering emphasizes those subjects which traditionally rely on novel computer techniques e.g computational mechanics computer aided design and optimization methods and presents successful applications of AI techniques in solving realistic problems Annotation copyrighted by Book News Inc Portland OR

Proceedings, 1975

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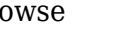
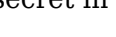
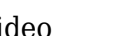
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