18.7MW WARTSILA 20V34SG (2 x 9,380kW) Natural Gas Power Plant

Generals

The Wärtsilä 34SG is a four-stroke, spark-ignited, lean-burn gas engine generating set. Its agility and flexibility make the Wärtsilä 34SG generating set an excellent choice for both flexible baseload and balancing renewables applications. It also offers a unique fast-starting capability, which enables rapid response to fluctuations inherent to renewable generation.



Wartsilä 34SG gas engine helps to provide an efficient, reliable and cost-efficient source of energy for power producers. It also provides enough spinning reserve for balancing whenever needed. The Wartsilä 34SG engine generating set is extremely reliable as it is based on the well-proven Wartsilä 32 engine, which has a track record from the mid-1990s. The Wartsilä 34SG features a wide power output range from 5.6 to 9.8 MW, as it is available in 12V, 16V and 20V cylinder configurations.

Key benefits of the Wartsilä 34SG gas engine

- No start cost, limitations nor degradation in number of starts.
- Compact sizing enables transportation to demanding locations.
- Capable of operating in high altitude.
- Runs on natural gas, biogas, synthetic methane and is capable of hydrogen blending.
- Minimal water consumption.
- Longer maintenance intervals.

Wartsila Gas Engine Power Manual

Clifford Lane

Wartsila Gas Engine Power Manual:

User's Guide to Natural Gas Technologies F. William Payne, 1999 Compiled Edited by F William Payne Natural gas technologies that were new five years ago have now been tested in the real world This book describes some of these important technologies covering both new engineering concepts and new products which have emerged as well as important innovations to existing technologies Many of the chapters include economic analyses which identify the resulting cost savings Specific areas of development addressed include gas cooling chillers desiccant technologies cogeneration heating systems and other natural gas technologies The Power Supply Industry Panos Konstantin, Margarete Konstantin, 2018-01-11 Power and Energy industry is a highly capital intensive business field Furthermore there is a very close interlinkage between technologies and economics that requires engineering consultants economists and lawyers dealing with investments in this field to have a basic knowledge of the power sector technologies and a common understanding of project evaluation approaches and methodologies The book s overall objective is to provide a comprehensive but concise coverage of power supply technologies and the related economics as required for techno economic evaluation of investments in power and business projects Throughout the book the emphasis is on transferring practical know how rather than pure theoretical knowledge This is also demonstrated in numerous examples derived from experience of respective projects The book comprises eleven chapters 35 tables 100 figures 35 application examples and 10 case studies Target audience of the book are primarily international consultants staff members of engineering companies utility personnel energy economists and lawyers as well as employees of government agencies entrusted with regulating the energy and utility sector and finally students in related fields of engineering and economics Modern Marine Internal Combustion Engines Ievgen Bilousov, Mykola Bulgakov, Volodymyr Savchuk, 2020-06-30 This book offers a comprehensive and timely overview of internal combustion engines for use in marine environments It reviews the development of modern four stroke marine engines gas and gas diesel engines and low speed two stroke crosshead engines describing their application areas and providing readers with a useful snapshot of their technical features e g their dimensions weights cylinder arrangements cylinder capabilities rotation speeds and exhaust gas temperatures For each marine engine information is provided on the manufacturer historical background development and technical characteristics of the manufacturer's most popular models and detailed drawings of the engine depicting its main design features This book offers a unique self contained reference guide for engineers and professionals involved in shipbuilding At the same time it is intended to support students at maritime academies and university students in naval architecture marine engineering with their design projects at both master and graduate levels thus filling an important gap in the literature The Motorboat Electrical and Electronics Manual John C. Payne, 2002 Motorboat Electrical and Electronics Manual covers all inboard engine boats from 20 to 120 coastal inshore and blue water vessels This complete guide to the electrical systems and the electronics for large and small pleasure boats and workboats is a must for all builders

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environmental aspects This will probably continue during the coming years This book mainly highlights the recent focus on the maximum power of engines as well as the corresponding first law efficiency upper bounds **Moody's International** Hybrid Energy Systems for Offshore Applications Ibrahim Mergent International Manual, 2009 Dincer. Valerio Cozzani, Anna Crivellari, 2021-05-15 There has been a strong need to enhance the utilization of renewable energy systems RESs from onshore to offshore applications where oil and gas companies are pivoting to integrate such renewable energy options into their offshore operations to lower their carbon footprint extend the lifetime of their assets and expand their market In this regard innovative hybrid energy systems such as Power to Gas P2G and Power to Liquid P2L options as well as novel integration strategies for Gas to Power G2P systems offer the opportunity to implement solutions energy transition paving the way to offshore RES deployment Hybrid Energy Systems for Offshore Applications delivers a comprehensive presentation of state of the art and perspective developments of offshore RES exploitation strategies and technologies and provides a unique portfolio of decision making methodologies supporting the selection of the most suitable options for offshore renewable energy production at a specific site System modeling and analysis along with the definitions of multicriteria methodologies and strategies based on sustainability environmental impact and safety performance indicators are addressed in an integrated fashion Rounding out with both research and practical applications explained this book gives academicians and industrial professionals fundamentals and methods for integrated performance analysis of innovative systems addressing offshore RES exploitation sustainable chemical and power production better efficiency lower costs lower environmental impact and higher inherent safety Harmonized presentation of RESs Unique coverage on hybrid energy systems and their offshore applications Comprehensive thermodynamic analysis and evaluation of the developed systems Process and system modeling analysis and decision making methodologies for offshore P2G P2L and G2P solutions Sustainability modeling and assessment studies for various offshore applications Distinct parametric studies illustrations and case studies Specific sustainability and safety performance indicators for comparative evaluations **Mergent Moody's** Natural Gas and Renewable Methane for Powertrains Richard van **Industrial Manual** ,1999 Basshuysen, 2016-02-04 This book focuses on natural gas and synthetic methane as contemporary and future energy sources Following a historical overview physical and chemical properties occurrence extraction transportation and storage of natural gas are discussed Sustainable production of natural gas and methane as well as production and storage of synthetic methane are scrutinized next A substantial part of the book addresses construction of vehicles for natural and synthetic methane as well as large engines for industrial and maritime use The last chapters present some perspectives on further uses of renewable liquid fuels as well as natural gas for industrial engines and gas power plants **Diesel & Gas Turbine Progress** ,1980-07 Modern Marine Engineer's Manual Everett C. Hunt, 2002 This manual first published in 1943 has been indispensable to ships engineers for generations The third edition revised and updated by a team of marine engineers

professors follows in the venerable style of its predecessors Text relating to obsolete equipment has been eliminated information on systems that are still current has been updated and new material has been added to reflect innovations in equipment and operative practices Extensive coverage on the newest medium speed diesel engine has been added to the text Environmental concerns have been recognized with a section on engine exhaust emissions and information about new refrigerants and the maintenance of refrigeration systems New equipment for trash handling sewage processing bilge water discharge and incineration are discussed with reference to international regulations Ship trial procedures and the new equipment used in trial data collection are presented in detail Pounder's Marine Diesel Engines and Gas Turbines Doug Woodyard, 2009-08-18 Since its first appearance in 1950 Pounder's Marine Diesel Engines has served seagoing engineers students of the Certificates of Competency examinations and the marine engineering industry throughout the world Each new edition has noted the changes in engine design and the influence of new technology and economic needs on the marine diesel engine Now in its ninth edition Pounder's retains the directness of approach and attention to essential detail that characterized its predecessors There are new chapters on monitoring control and HiMSEN engines as well as information on developments in electronic controlled fuel injection It is fully updated to cover new legislation including that on emissions and provides details on enhancing overall efficiency and cutting CO2 emissions After experience as a seagoing engineer with the British India Steam Navigation Company Doug Woodyard held editorial positions with the Institution of Mechanical Engineers and the Institute of Marine Engineers He subsequently edited The Motor Ship journal for eight years before becoming a freelance editor specializing in shipping shipbuilding and marine engineering He is currently technical editor of Marine Propulsion and Auxiliary Machinery a contributing editor to Speed at Sea Shipping World and Shipbuilder and a technical press consultant to Rolls Royce Commercial Marine Helps engineers to understand the latest changes to marine diesel engineers Careful organisation of the new edition enables readers to access the information they require Brand new chapters focus on monitoring control systems and HiMSEN engines Over 270 high quality clearly labelled illustrations and figures to aid understanding and help engineers guickly identify what they need to know Ract Bact Laer Clearinghouse **Gas & Oil Power** ,1968 clean Air Technology Center annual Report for 2000 Clean Air Technology Center (U.S.), 2001

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