

# Dual Fuel Me Gi Engine Performance And The Economy

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### Dual Fuel Me Gi Engine

#### **ME-GI Dual Fuel MAN B&W Engines**

ME-GI Dual Fuel MAN B&W Engines Abstract Since 2012, MAN Diesel & Turbo has received significant orders for the gas-fuelled ME-GI engine The first ME-GI engine specified was for two gas-fuelled container vessels ordered by the company TOTE This first order is for an 8L70ME-C8-GI engine, sized for a 3,100 teu containership It is the first of

#### **ME-GI Dual Fuel MAN B&W Engines**

ME-GI Engine HP Pump LNG Return Pump LNG Vaporiser LNG Flash Drum N2 Heat Exchanger N2 Compressor N2 Inter & After Coolers Off Gas Heater Reliquefaction GCU BOG Heater BOG Desuperheater Cold Box BOG Compressor N2 Cold BOG Warm BOG Condensate Vent gas Fig 3: Components to be modified: ME-GI compared to an ME engine ME-GI Dual Fuel MAN B&W Engines 7

#### **ME-GI Mk. 2 - MAN Energy Solutions**

–As an addition to our ME-GI and ME-LGI engine program, MAN ES has, therefore, developed a pre-mixed dual fuel engine –The new dual fuel engine is named ME-GA with gas admission valves placed on the cylinder liner –The ME-GA dual fuel engine will not ...

#### **MAN B&W ME-LGIP dual-fuel engines**

LPG-fuelled ME-GI engines The ME-LGIP engines are included in MAN ES' two-stroke engine programme offering gas engines for all kind of ships utilising two-stroke engine propulsion This paper describes the most recent fuel-cost optimised and environmentally friendly dual-fuel two-stroke engine from MAN Energy Solutions, the MAN B&W ME-LGIP

#### **Dual fuel low speed engine - MAN Energy Solutions**

dual fuel engine - the 12K80MC-GI-S Originally constructed in 1994 to produce electricity in Chiba in the Tokyo Bay area, the GI engine concept has

demonstrated a high level of reliability, availability and safety when operating in gas mode The ME-GI Engine Supreme fuel flexibility

### **Dual-fuel, low-speed engine - MAN Energy Solutions**

ME-GI unit, MAN Diesel & Turbo's order book has filled up, confirming the market acceptance of this innovative engine The number of applications that the ME-GI engine has been ordered for has subsequently increased to encompass almost all ship segments ...

### **MAN B&W ME-GI installation in very large or ultra large ...**

fuel-combustion by MAN B&W dual-fuel, two-stroke engines The ME-GI dual-fuel engines described in this paper have been based on an optimised engine design platform, which has resulted in a lighter and a more powerful engine

### **MAN B&W Dual Fuel Engines - Starting a New Era in Shipping**

The engine The ME-GI dual fuel engine is not a new engine in technological terms, rather a natural development of the MAN B&W low speed electronically controlled ME family of engines In 1987, the first test-ing of the GI principles was carried out in Japan and Denmark and MAN Diesel & Turbo introduced their first two-stroke

### **ME-GI Engine Fuelled by LNG**

ME-GI Engine Fuelled by LNG Andrzej Krupa Managing Director ME-GI The Engine Parts 7S70ME-GI Fuel (& Pilot) Injector Gas Injector Gas Control Block Double Wall Piping Gas Condition: ME-GI Gas Fuel Mode Concept Fuel oil only mode •Operation profile as conventional engine

### **MAN B&W ME-GI ENGINES. RECENT RESEARCH AND RESULTS**

The ME-GI engine is developed as a dual fuel engine and is able to operate at 100% Maximum Continuous Rating (MCR) on either Compressed Natural Gas (CNG) or

### **Costs and Benefits of LNG - MAN SE**

The MAN B&W ME-GI engine series, in terms of engine performance (out-put, speed, thermal efficiency, etc), is identical with the well-established ME engine series This means that the application potential for the ME-GI system applies to the entire ME engine range Specific fuel oil consumption is specified for different engine sizes, fuels and

### **Dual Fuel Engines - MAN Energy Solutions**

The Dual Fuel An overview Peter C Quaade - Benaki Museum Event ©2019 – >280 Confirmed sales 112 in service (8 LGIM / 4 GIE) – April 2019 > 500000 ME-GI design – LGIP engines Prototype test December 2019 – Retro Fit solutions tankers, CV (ME to ME-GI, ME-GI to ME-GIE, ME to LGIP) – ME-GIE a new member of the family, G60 ME-GIE

### **Using Methanol Fuel in the MAN B&W ME-LGI Series**

result, the ME-LGI engine series was introduced The MAN B&W ME-LGI engine is the dual fuel solution for low flashpoint liquid fuels contrary to the ME-GI engine where the fuel is injected in the gaseous state Methanol is characterised by a low cetane number, see Table 1, and the self-ignition quality is ...

### **Ship Operation Using LPG and Ammonia As Fuel on MAN ...**

All above fuel types can be burned in the 2-stroke ME-C, ME-GI or ME-LGI engine • Engine Efficiency above 50% ( 60% incl WHR & PTO ) Development of an ammonia fuelled ME-LGI engine: • History shows that ammonia works as an engine fuel • Engine development will be done when the market comes • Development time is estimated to 2-3 years

### **Alfa Laval FCM One Gas**

Fuel conditioning system for ME-GI dual-fuel engines The Alfa Laval Fuel Conditioning Module (FCM) One Gas is an automated fuel gas supply system for the treatment of liquefied natural gas (LNG) to meet the cleanliness, pressure, temperature and flow rate specified by ME-GI dual-fuel engine manufacturers

### **PowerPoint Presentation**

2020: Fuel and lube test plan In order to prepare for the new types of 050%S fuels, test engine, service tests and lab tests will be carried out This will be done in collaboration with lube oil suppliers, fuel oil suppliers, ISO 8217 WG, CIMAC WG Fuels, ship owners and other relevant partners Potential challenges: Fuel: a Technical: i

### **Burckhardt Compression: First Order for Laby®-GI Fuel Gas ...**

the ME-GI engine from MAN Diesel & Turbo and the fuel gas compressor system Laby®-GI from Burckhardt Compression The two gas carriers have each a capacity of 170'000 cubic meters The fully balanced compressor system will inject boil-off gas into the ME-GI dual-fuel two-stroke engine

### **Vertical Type Reciprocating Compressor for LNG Boil Off ...**

regulations, low-speed dual-fuel engines, such as ME-GI, are attracting rising attention Such an engine requires a gas-injection compressor (GIC) to supply LNG boil off gas (BOG), and the demand for GICs is expected to grow Hence, KOBE Steel has developed a vertical type LNG BOG reciprocating compressor suitable for GIC for ME-GI engines

### **MAN**

- Same engine outline as 5/6G70ME-C105/ME-GI Compliance with emission regulations - IMO Tier II in dual-fuel and fuel oil mode - IMO Tier III in dual-fuel mode - IMO Tier III in fuel oil mode with EGR or SCR Main data Double wall supply pipe Cylinder cover with fuel and pilot oil injection valve Safe gas admission valve, SGAV on liner wall

### **WÄRTSILÄ LOW-SPEED DUAL-FUEL SOLUTION**

leader in dual-fuel (DF) technology, Wärtsilä now further strengthens its position with the introduction of the new low-pressure 2-stroke dual-fuel engines The Wärtsilä low-speed dual-fuel engine is designed to lower the pressure - on your investment, on the environment, and on your operating costs In fact, as