

Offshore Generating Sets

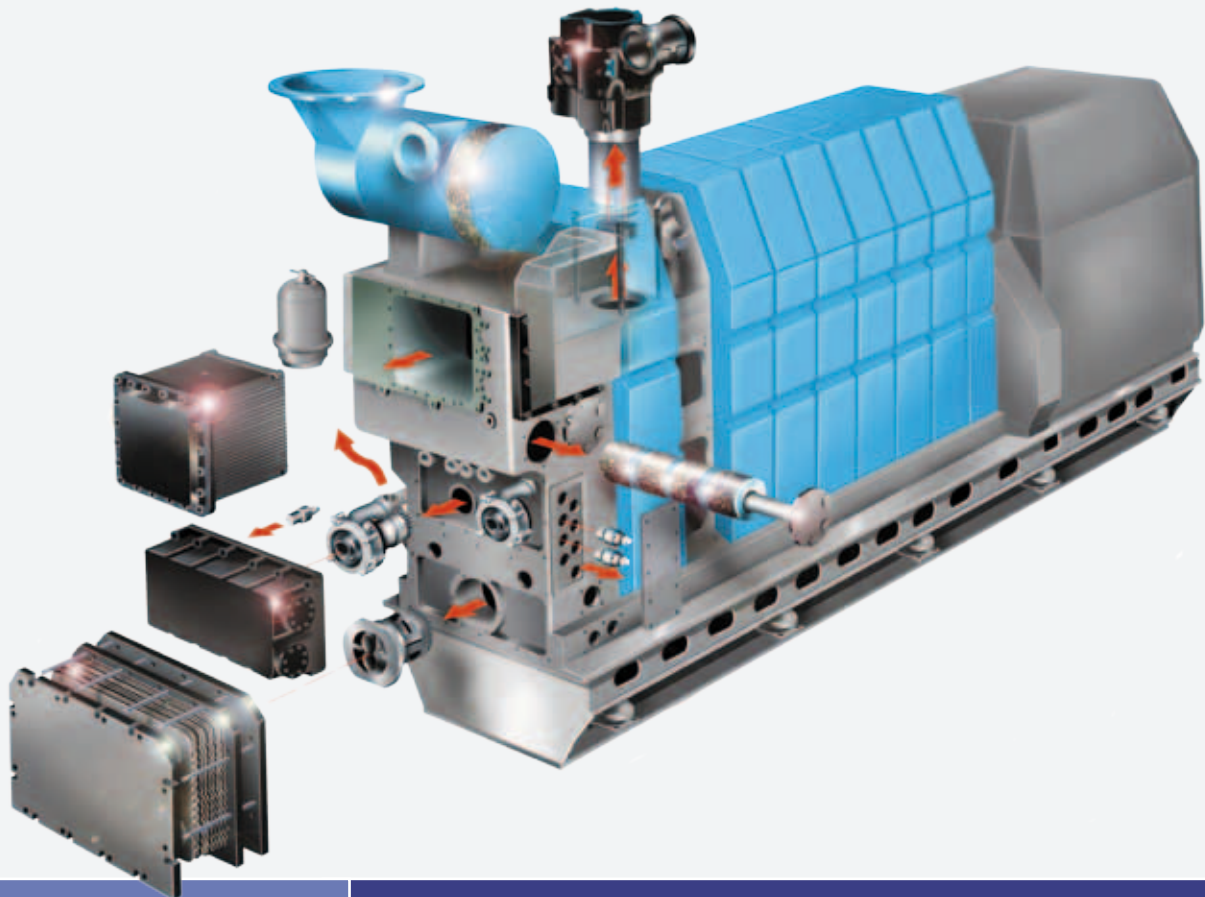
Re-powering



MAN Diesel



'Atlantic Star' Semi Sub Refurbished with New GenSets



The L27/38 GenSet's exploded view showing MAN Diesel's modularised engine concept for optimal service friendliness

Drilling power

MAN Diesel has settled a GenSet re-powering contract with the Brazilian oil drilling operator QGP (Queiroz Galvão Perfurações S. A., Rio de Janeiro). The company's Semi Submersible Drilling Vessel, 'Atlantic Star', will be subject to a major refurbishment task, which includes the replacement of the electrical power plants' original diesel generators. The new power source will be based on four MAN Diesel type 7L27/38 Generating Sets.

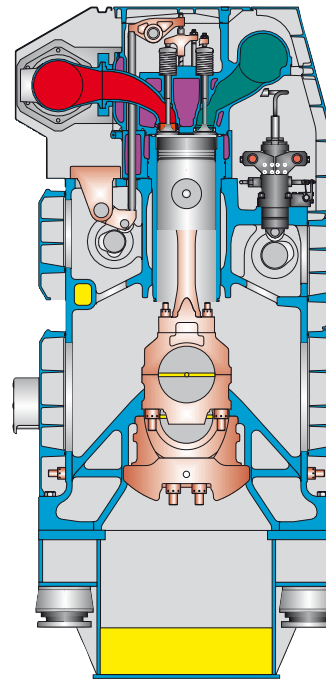
The GenSet engines, which are to be supplied from Denmark, will be delivered with common base frames matched for the American National Oilwell Baylor alternators. The total engine output from the four GenSets is specified at 9 240 kW

(4 x 2 310 kW), corresponding to an electrical output of 8780 kWe. A decisive parameter for the specification and final selection of the new power source was due to the favourable load response characteristics from the medium-speed L27/38 GenSets.

The consulting design company for the project is Projemar SA, Brazil, and the extensive refurbishment job is to be carried out by Maua Jurong S/A. After completion, the estimated geographical operational area for the 'Atlantic Star' is the waters off the Brazilian Atlantic coast.

L27/38 main data

Bore	270 mm
Stroke	380 mm
Stroke/bore ratio	1.4:1
Cycle	4-stroke
Cyl. nos	5-6-7-8-9
Configuration	In line
Power range	1500-2970 kW
Speed	720/750 rpm
Turbocharging principle	Constant pressure system and intercooling
Fuel quality acceptance	HFO up to 700 cSt/50° C



The Atlantic Star off the Brazilian coast



Semi submerged, the drilling vessel can operate in water depths up to 600 m

Helideck for Bell 412

'Atlantic Star' Semi Submersible Drilling Vessel in short

The 'Atlantic Star' is a Pentagone 90 design by Instituto Frances del Petroleo (I.F.P.) and Forex Neptune. The vessel is equipped to operate in water depths up to 1,968 ft. (600 m) and with a drilling depth capacity of up to 25,000 ft. (7620 m). The 'Atlantic Star' is classed by the American Bureau of Shipping – A1 column stabilized drilling unit. Manufactured in 1976 by C.F.E.M. Register Port is Nassau, Bahamas. Accommodation is provided for 100 people, with galley, sick bay, training and recreational areas.

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