

Pioneiro de Libra (conversion)

Ship type FPSO	Ship owner OOG-TK Libra GmbH & Co KG	Shipyard Sembcorp Marine Jurong Shipyard Pte Ltd.	Project type Conversion/Retrofit
Ship status Delivered	Design scope Concept, Basic	Delivery year 2017	



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Commission for the Ship Owner

- ▶ Bid support for Libra field tendering
- ▶ The target for engineering was to verify the feasibility of the conversion and provide information for capital expenditure analysis
- ▶ Basic set of documentation was prepared including general arrangement, conversion specification and stability check

Commission for the Shipyard

- ▶ Basic engineering of the hull and utilities
- ▶ Scope included structural design; strength and FEA calculations; accommodation and HVAC design; P&IDs for marine and utility systems; electrical and instrumentation for the hull; procurement support for main equipment; and HSE considerations
- ▶ Deltamarin also provided interface management

Project Features

- ▶ Storage capacity 650,000bbl, production rate 50,000 bbl/d
- ▶ A very complex fatigue life analysis was conducted due to the vessel's long service history in North Sea conditions and its relatively high age
- ▶ The vessel will serve the Libra pre-salt field in the ultra-deepwater section of Brazil's Santos Basin as an early well-testing unit
- ▶ The project was a fast track project with a delivery time of only 23 months
- ▶ The work was completed in 2017

Main dimensions

Dwt	120 367
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GT	86 873
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Capacity	650,000 bbl
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LoA	310,15
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Beam	50,5
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Draught	16,019
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Additional Information

IMO Number

9063067
