

AURA SEAWAYS – RO-RO PASSENGER SHIP



SOURCE: PHILIPPE HOLTFO

Shipbuilder:Guangzhou Shipyard International
Vessel's name:**Aura Seaways**
Owner/Operator:DFDS A/S
Country:Denmark
Model test establishment used:SSPA Sweden A/S
Designer:Deltamarin
Country:Finland
Flag:Denmark
IMO number:9851036
Total number of sister ships already completed (excluding ship presented):2
Total number of sister ships still on order: **Nil**

DFDS has announced plans for improving its environmental performance and while the *Aura Seaways* and its sister *Luna Seaways* delivered in February 2022 currently run on oil fuels, the engines are of a type that can be converted to run on LNG. The owner's intentions in this regard are evidenced by the GR(A) 'Gas Ready' class notation assigned by Lloyd's Register.

TECHNICAL PARTICULARS

Length oa:230.0m
Length bp:224.5m
Breadth moulded:31.0m
(including fenders: 31.60m)
Depth moulded
to main deck:9.85m
to upper deck:15.925m
to weather deck:21.775m
Draught design:6.80m
Gross:56,043t
Net:29,708
Displacement:32,430t
Lightweight:19,583t

Speed, service:
Service speed 1:18.0kts
Speed service 2:23.0kts

Classification society and notations:Lloyd's Register
LR #100 A1, Roll on-Roll off Passenger ship,
ShipRight(ACS(B), CM, SDA), IWS, Ice Class 1C
FS, LI
#LMC, UMS, IBS, NAV 1, PCAC2.2,
ECO(BWT,IHM)
With descriptive notes: ShipRight(BWMP(T),
SCM, SRtP, MPMS, SERS), GR(A)

Main engine(s)
Design:Wärtsilä
Model:2 x Wärtsilä 6L46F, maximum
continuous rating (MCR) each 7,200kW
2 x Wärtsilä 8L46F, maximum continuous
rating (MCR) each 9,600kW

Number:4
Output of each engine:7,200kW (6L46F);
9,600kW (8L46F)

Propeller(s)
Material:Ni-Al Bronze
Number:2
Fixed/Controllable pitch:Controllable
Diameter:5.3m

Auxiliary engine(s)
Number:3
Make/type:Wärtsilä 6L26, each 2,040kW
Total installed auxiliary engine power:6,120kW

Shaft Generators (SG1, SG2)
Number:2 pcs
Type:Synchronous
Rated power PTO:abt. 3,000kW

Special lifesaving equipment
Number of each and capacity:2 x
150-person Viking Norsafe lifeboats
+ 2 Viking MES
If MES, vertical or sloping chutes?:Vertical

Vehicles
Number of vehicle decks:5
Total lane length:4,072lm trailers,
163lm cars (gross)
Total cars:28
Total freight units (specify size):273

Doors/ramps/lifts/moveable car decks
Number of each:3
Type:Hydraulic stern
Designer:TTS/MacGregor

Complement
Crew:62
Passengers
Total:690
Number of cabins:250

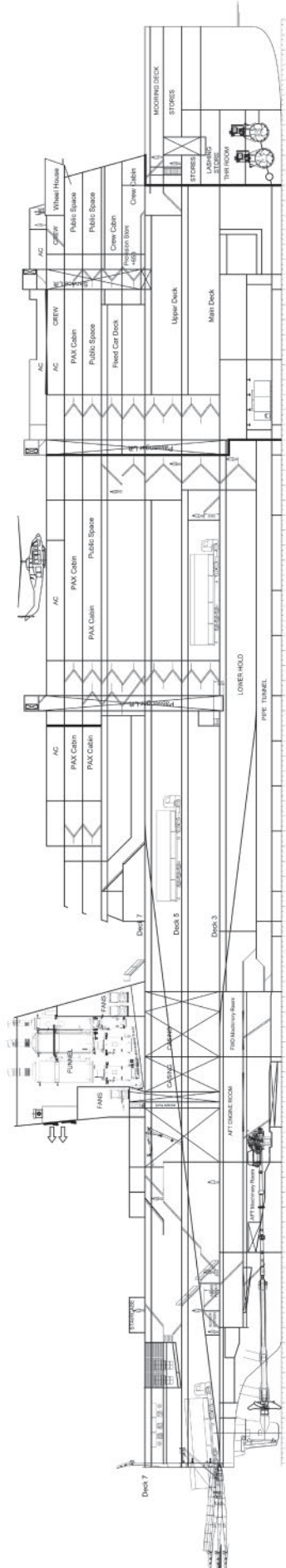
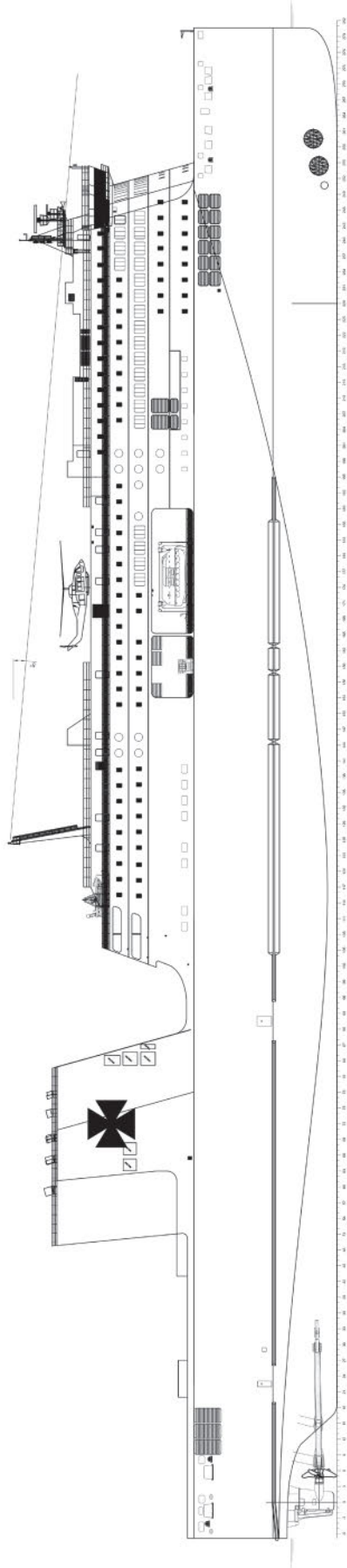
Contract date:12 February 2018
Steel cutting date:July 2019
Delivery date:18 December 2021

Delivered in late December 2021, but too late to appear in the 2021 edition of *Significant Ships*, *Aura Seaways* is the first newbuilding taken by its owner DFDS since the *Scandinavia* was delivered in 1982.

Built by China's Guangzhou Shipyard International the 56,043gt ro-pax with 4,500 lane metres of vehicle capacity is also the largest vessel in the DFDS fleet in terms of cargo space. Some 4,072lm are for trucks and the balance for cars. The vessel has a passenger capacity of 662 with 250 cabins and is currently the largest of its type operating in the Baltic where it runs on the Karlshamn-Klaipeda and Kiel-Klaipeda routes.

Vehicle spaces are served by three stern ramps with trucks accommodated on decks 1, 3, 5 and 7 and cars on decks 7 and 8. Crew cabins are located on decks 7 and 8 and passenger cabins on decks 9 to 11.

Propulsion is provided by a pair each of Wärtsilä 6L46F engines rated at 7,200kW and Wärtsilä 8L46F engines rated at 9,600kW to give a total power of 33,600kW to drive the two 5.3m diameter shaft driven controllable pitch propellers. The 6,120kW of auxiliary power supplied by three 6L26 engines can be supplemented by a pair of shaft generators giving 3,000kW each.



RAMP STRUCTURE PRINCIPLES

