GHANA
OSK File C372

As part of Denmark’s development assistance to Ghana, three lake-crossing passenger / car ferries: M/F NDEWURA JAKPA, M/F NANA BESEMUNA and M/F NANA KWASI GYIMAH were completely rehabilitated from 1994 to 1996 by Karstensens Shipyard A/S Denmark. The three vessels were built in 1970 by Christof Rathof Shipyard Germany for the Volta Lake Transport Co. and are operated by Volta Lake Transport Co. as a passenger/cargo car service on Lake Volta. The vessels are of vital importance to the regional traffic.

The total rehabilitation comprised the following items:
- Replacement of existing main engines with 2 new self-contained propulsion units make Schottel / Deutz type SRP 170 each approx. 320 HP, fuel–saving type; rebuilding of existing engine room, installation of new aux. engines 2 pcs each of output 25 kVA,
- New electrical, bilge and sanitary systems; life-saving / fi-fi and navigational equipment etc.

Main Dimensions:

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<tbody>
<tr>
<td>Length o.a.</td>
<td>Approx. 40.00 m incl. 1 ramp</td>
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<tr>
<td>Length of deck</td>
<td>32.00 m</td>
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<tr>
<td>Breadth over all</td>
<td>13.90 m</td>
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<tr>
<td>Breadth open deck</td>
<td>8.50 m</td>
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<tr>
<td>Depth moulded</td>
<td>1.80 m</td>
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<tr>
<td>Draught</td>
<td>1.20 m</td>
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Capacity:
- Number of pax. Approx. 300 day passengers
- Cargo approx. 137 tons
- Length of vehicle lane 96.00 m
- Class Germanischer Lloyd
- Cargo 200 tons

The following work has been carried out by Ole Steen Knudsen A/S (now a part of OSK-ShipTech A/S):
- Feasibility study
- Out-line design
- Afloat survey and survey report
- Preparation of tender documents
- Tender and contract negotiations
- Supervision of rehabilitation work and commissioning
- Stability calculations
- Test, trials and handing over