

Report of Survey for Repairs, &c., of Engines and Boilers.

DEC 12 1939

(Received at London Office)

Date of writing Report 9-12-39 When handed in at Local Office 9-12-39 Port of Leith
 No. in Reg. Book 25626 Survey held at Leith Date, First Survey 16-11-39 Last Survey 2-12-1939
 (No. of Visits ELEVEN)
 on the Machinery of the Wood, Iron or Steel "CROWN ARUN" ex "HANNAH BÖGE" Year. Month.
 Tonnage { Gross 2372 Vessel built at Rostock By whom Neptunwerft Rostock G.M.B.H. When 1938
 Net 1371 Engines made at Altona By whom Glückaufwerft Rostock G.M.B.H. When
 Nominal Horse Power 1262 2/3 Boilers, when made (Main) (Donkey) -
 No. of Main Boilers 2 S.B. Owners Ministry of Shipping Owners' Address (if not already recorded in Appendix to Register Book.)
 No. of Donkey Boilers 2 S.B. Managers Messrs. J. & J. Salomon, Ltd. of Leith Port London Voyage
 in Main Boilers 228 lbs. Surveyed Afloat or in Dry Dock Albert, Imperial & Prince of Wales Particulars of Classification (which must be inserted precisely as in Register Book & Supplements).
 in Donkey Boilers -

Last Report No. - Port -
 Particulars of Examination and Repairs (if any) L.M.C.

(Periodical Surveys, when held, must be reported in detail and serially in the terms of the Rules. State clearly the cause of Repairs, if any, and, in detail, the nature and extent of Examinations and subsequent Repairs. Repairs on account of Damage (the cause of which must be stated) should be separated from Repairs due to other causes; and besides being detailed in the body of the report, should be briefly summarised at the end of the report. State also the dates and initials of any letters respecting this case.)

In damage cases where the Surveyor has not made a special damage report he is required to state whether he offered his services for this purpose, and why they were declined ✓

Was a damage report made by anyone else? If so, by whom? ✓

Did the Surveyor personally go inside each Main Boiler separately and make a thorough examination at this time? Yes.

" " Donkey " " " "

If this was not done, state for what reasons? ✓

And what parts of the Boilers could not be thus thoroughly examined? ✓

Also what special means, in the absence of internal examination, were adopted by the Surveyor to assure himself of the thorough efficiency of those parts of each Boiler? ✓

State latest date of internal examination of each boiler Port 17-11-39 Star 27-11-39 Present condition of funnel Good.

Did the Surveyor examine the Safety Valves of the Main Boiler? Yes. To what pressure were they afterwards adjusted under steam? 228 lbs/sq. in.

Did the Surveyor examine the Safety Valves of Donkey Boiler? ✓ To what pressure were they afterwards adjusted under steam? -

Did the Surveyor examine all the manholes, doors and their fastenings of the Main Boilers? Yes. and of the Donkey Boilers? ✓

Did the Surveyor examine the drain plugs of the Main Boilers? None and of the Donkey Boilers? ✓

Did the Surveyor examine all the mountings of the Main Boilers? Yes. and of the Donkey Boilers? ✓

Has screw shaft now been drawn and examined? Yes. Is it fitted with continuous liner? None Is an approved appliance fitted at the after end of the shaft to permit of it being efficiently lubricated? YES.

Has shaft now been changed? No. If so, state reasons. - Is an approved appliance fitted at the after end of the shaft to permit of it being efficiently lubricated? ✓

Has the shaft now fitted been previously used? ✓ Has it a continuous liner? - Is an approved appliance fitted at the after end of the shaft to permit of it being efficiently lubricated? ✓

State date of examination of Screw Shaft 27-11-39 State the distance between the bearing metal of stern bush and top of after bearing of screw shaft 32
 Is electric light and/or power fitted? YES.

Engine parts, when referred to by numbers, should be counted from forward.

If so, did the Surveyor examine the generators, motors, switchgear, cables and fuses? Yes.

Has the insulation resistance of the generators, circuits and apparatus been tested and found to be not less than 100,000 ohms? Yes.

If the Survey is not complete, state what arrangements have been made for its completion and what remains to be done Complete

Now done: Vessel placed in dry dock, the propeller, screw shaft, stern bush, oil gland (type not known), sea connections and the outside fastenings examined. The main engine cylinders, pistons, valves & chests (poppet type), cranks, thrust & tunnel shafting, the exhaust steam turbine, gearing & clutch, condenser (tested), all pumps together with their valves & connections, windlass, electric steering gear and pumping arrangement examined and found or placed in good order. Both boilers examined internally and externally with mountings, doors etc. and found in a safe working condition. They were afterwards examined under steam and the safety valves adjusted to pressure as above. Part lagging was removed from the main & auxiliary steam pipes, the pipes examined in place and found in order (See continuation).

General Observations, Opinion, and Recommendation: The machinery of this vessel is now in (State clearly what alteration, if any, is suggested to be made in the existing classification of the vessel's machinery, boilers, working pressures, &c.; thus, for example, B.S. 9, 11, B.S.M.S. 9, 11, L.M.C. 9, 11, or any alteration required to be made in the records of the vessel's machinery, boilers, working pressures, &c.)

L.M.C. CS 3, 34. NO 10, F.D., &c.
 a safe working condition and eligible, in my opinion, for the record of L.M.C. 12-39 and T.S.O.G. 11-39.

Survey Fee (per Section 29) L.M.C. £ 20 : 0 : 0 Fees applied for 11/12/39
 Special Damage or Repair Fee (if any) (per Section 29.) £ ✓
 Travelling expenses (if chargeable) £ ✓ Received by me, 29/12/39 29

Engines Surveyor to Lloyd's Register of Shipping.

Committee's Minute

Assigned

FRI. 29 DEC 1939

See Lth. 26. 19980

W378-0169 1/2

Lloyd's Register Foundation

"CROWN ARUN" ex "HANNAH BÖGE"

Although it was mentioned in the London approval letter dated 30-11-39 that the boilers should be tested by hydraulic pressure, this was waived on telephonic communication to the plant department, as in our opinion the boilers are quite sound and of good workmanship.

The electrical equipment and generators have been examined, minor repairs effected, Megger tested and found in order. It was afterwards examined under working conditions and found satisfactory.

Minor repairs have been effected and customary adjustments made to machinery.

J.H.

J.B.
19.12.39

RETAIN