

Date of writing Report 19 When handed in at Local Office **7 MAY 1928** Port of **Sunderland**  
 No. in Reg. Book **16486** Survey held at **Sunderland** Date, First Survey **Apr 13** Last Survey **May 19 28**  
 on the Machinery of the ~~Wood, Iron or Steel~~ **S.S. "BENRINNES"** (No. of Visits **10**)  
 Tonnage { Gross **4798** Net **3071** Vessel built at **Sunderland** By whom **Bartrams & Sons, L<sup>d</sup>** When **1914, 7<sup>th</sup> mth**  
 Nominal Horse Power **435** Engines made at **Sunderland** By whom **N.E. Marine Eng. Co., L<sup>d</sup>** When **1914**  
 No. of Main Boilers **3 S.B.** Boilers, when made (Main) **1914** (Donkey) **1914**  
 No. of Donkey Boilers **1** Owners **Ben Line Steamers, L<sup>d</sup>** Owners' Address **Leith** Voyage **✓**  
 Steam Pressure in Main Boilers **190** Managers **W. Thomson & Co.** (if not already recorded in Appendix to Register Book.)  
 in Donkey Boilers **120** # Surveyed Afloat **✓** in Dry Dock **Grumwell's Dry Dock** Particulars of Classification (which must be inserted precisely as in Register Book & Supplements.)  
 (State name of Dock.) **Grumwell's Quay**

Last Report No. \_\_\_\_\_ Port \_\_\_\_\_  
**Particulars of Examination and Repairs (if any)** **B.S. fitting of Superheaters**  
 (Periodical Surveys, when held, must be reported in detail and seriatim 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? **✓**

CHARACTER. Date of last Survey and of Periodical Surveys.	Years Assigned for special survey.	Machinery and Boiler Surveys (including date of N.B., if any).
* 100.A.I. 9, 27.		* L.M.C. M.S. 7, 26. B.S. 5, 27.
S.S. Y.M.A. N° 3-5, 26.		✓ S.C.L. 2, 27.
Carrying off fuel F.P. above 150° F. in D.B. <b>✓</b>		

Did the Surveyor personally go inside each Main Boiler separately and make a thorough examination at this time? **Yes**  
 Do. " Donkey " **No**  
 If this was not done, state for what reasons? **Donkey Boilers under steam**  
 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? **✓**  
 Did the Surveyor examine the Safety Valves of the Main Boiler? **Yes** To what pressure were they afterwards adjusted under steam? **190 lbs**  
 Did the Surveyor examine the Safety Valves of Donkey Boiler? **No** 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 Boiler? **No**  
 Did the Surveyor examine the drain plugs of the Main Boilers? **✓**, and of the Donkey Boiler? **✓**  
 Did the Surveyor examine all the mountings of the Main Boilers? **Yes**, and of the Donkey Boiler? **No**  
 Has screw shaft now been drawn and examined? **Yes** Is it fitted with continuous liner? **Yes** Is an approved appliance fitted at the after end of the shaft to permit of it being efficiently lubricated? **✓**  
 Has shaft now been changed? **No** If so, state reasons **✓**  
 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 the distance between lignum vitae or bearing metal of stern bush and top of after bearing of screw shaft? **1/8"**

If the Survey is not complete, state what arrangements have been made for its completion and what remains to be done? **To complete Survey the Donkey Boiler remains to be examined in its entirety, and the Safety Valves adjusted under steam. The Chief Engineer stated that this would be done at Middlesbrough, to which port the vessel has now proceeded, and the Middlesbrough Surveyors have been advised to this effect.**

**Now done for Docking:** - Vessel placed in Dry Dock, and the Propeller, Stern Bush, and outside fastenings of Sea Connections examined & found satisfactory.

**Now done for B.S.:** - Three Main Boilers examined internally and externally, together with the mountings and the Safety Valves adjusted under steam to the pressure stated above.  
 For particulars of Superheaters now fitted see attached Report.

**General Observations, Opinion, and Recommendation:** - The Machinery of this vessel as now seen is in a good and efficient condition, and eligible in my opinion to remain as classed with fresh record of Survey B.S. 5, 28 on completion of Survey, as above.  
 The H. P. Cylinder Dia, in the Register Book, should now be amended to 26"

Survey Fee (per Section 28) £ 5 : 0 : 0 Fees applied for **7 MAY 1928**  
 Special Damage or Repair Fee (if any) £ 15 : 15 : 0  
 Travelling Expenses (if chargeable) £ 1 : 1 : 0  
 Received by me **A. S. Griffith** 22.6.28  
 Committee's Minute **See Ind. Rpt. 13298**  
 Assigned



Insert Character of Ship and Machinery precisely as in the Register Book.

Is a Certificate required? If so, to be sent to

MS10-0306

Now done for fitting  
of Superheaters

Three Main Boilers satisfactorily fitted with Superheaters  
After assembling in place the system was tested under  
hyd pres to 400 lbs 0" & found sound & tight.  
H.P. Cylinder Liner drawn, and new one satisfactorily  
fitted. (Dia 26" in place of 25" previously fitted.)  
New H. P. & M. P. Pistons fitted.  
H. P. & M. P. Cylinders examined & found satisfactory.  
New H. P. Piston Rod fitted (Dia 7"). Stamped.

LLOYDS  
No 8000  
A.T.G.  
24-4-25

Repairs for Wear & Tear:- Crankshaft lifted, all bottom halves of main bearings  
re-metalled, Shaft re-bedded, and tested for truth, with  
thrust shaft and found satisfactory.  
Bottom ends examined and found satisfactory.

3 Aux Check Valve lids renewed on main Boilers.  
End plate built up by E. A. P. in way of Starb<sup>d</sup> Bottom  
Manhole door of Centre Boilers.

A. I. Griffiths.

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OF THE SURVEYORS ARE REQUESTED NOT TO WRITE ACROSS THE MARGIN.



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