

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

(Received at London Office

TUE. JUN. 7 1921

Date of writing Report 1 June 1921 When handed in at Local Office 19 Port of NEWCASTLE-ON-TYNE

No. in Survey held at Hellburn & Jarrow Date, First Survey 4<sup>th</sup> April Last Survey 27<sup>th</sup> May 1921  
 eg. Book. 1791 on the Machinery of the Wood, Iron or Steel S/S BRANT COUNTY Master (No. of Visits) 20

Gross Tonnage 4972 Vessel built at Rostock By whom Akt Ges Neptun When 1915 - 0  
 Net 3038 Engines made at Rostock By whom Akt Ges Neptun When 1915  
 Registered Horse Power 480 Boilers, when made (Main) 1915 (Donkey) None  
 No. of Main Boilers 45 B Owners J. Coull & Sons Port London Voyage  
 No. of Donkey Boilers 1 If Surveyed Afloat or in Dry Dock Hawthorn Leslie & Co Particulars of Classification (which must be inserted precisely as in Register Book & Supplements).  
 Steam Pressure in Main Boilers 213 lbs (State name of Dock.) 57 St Helens and afloat at Newcastle Sts Ltd  
 No. of Donkey Boilers 1

Particulars of Examination and Repairs (if any) Machinery Survey for Classification

Periodical Surveys, when held, must be reported in detail and serially in the terms of the Rules. State clearly the nature 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 details 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.

Where 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

Do. " " Donkey " " " " ✓

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

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

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? 218 lbs  
Safety Valves fitted with casing gear. Superheaters 5 Valves 223 lbs

Did the Surveyor examine the Safety Valves of Donkey Boiler? yes 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?

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?

Has screw shaft now been drawn and examined? yes Is it fitted with continuous liner? yes or two liners? or is it without liners?

Has shaft now been changed? no If so, state reasons

Has shaft now fitted new? Has it a continuous liner? or two liners? or is it without liners?

What is the distance between lignum vitae of stern bush and top of after bearing of screw shaft? 1/8 wood in stern tube bushes good.

Where survey is not complete state what arrangements have been made for its completion and what remains to be done?

S/S BRANT COUNTY & German Steamer LENNER

Wooden Vessel dry docked. The propeller (built) from bronze blades, outside fastenings Sea connections Bilge Injection Valve, Tail Shaft (C.L), Tunnel Thrust and Crank Shafts cylinders, pistons and Slide Valves, Valve gear, piston Rods, Connecting Rods, Condenser, pumps & their Connections, Steam Steering Engine, opened out examined found generally good Condition, overhauled, put in order as found necessary and closed up as before. Piston hood & Rings fitted to HP piston - New Rings fitted to MP and LP pistons. Piston Rod Skimmed up & refitted - HP piston Valve Chamber bored out. New piston Valve & rings fitted and Valve spindle Skimmed up and new patent packing fitted. All Steam pipes (Main & Superheater Steam) tested under 500 lbs hydraulic pressure. New Contra flow feed water Heater fitted - 2 New. Weirs feed pumps fitted. 9" x 12 x 21. Duplex

General Observations, Opinion, and Recommendation:—

In our opinion the machinery is now so far as seen in good condition & eligible for the notification of L.M.C 5-21. and record of Tail Shaft examined 21 made in the Register Book.

Fee (per Section 29) £  
 Damage or Repair Fee (if any) (per Section 29.) £30.0.0  
 Printing Expenses (if chargeable) £

Fees applied for  
 £28.6.10  
 Received by me  
 28.6.1921

C. Murdoch & L.G. Challcross -  
 Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute  
 Signed L.M.C 5.21

Stamp: FRI. 14 OCT. 1921, TUE. 23 MAY. 1922, TUE. 3 JAN. 1922, FRI. JAN. 27 1922

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

Is a Certificate required? If so, to be sent to 008789.008795-0039/12

Sps. Brant County. 4. Lemmings -

Ballast donkey pump opened out and examined - 13 3/16" x 11" x 12" stroke  
 Feed " " " " " " " " " " " " 7 1/2 x 5 x 6 "  
 General Service " " " " " " " " " " " " 9 7/8 x 6 7/8 x 12 "

Main Boilers Opened out - Cleaned Examined general condition good overhauled. minor repairs effected.

Superheaters sent to works overhauled. machined up and made good as found necessary. tested under hydraulic pressure. refitted on board as before. Boilers and Superheaters mountings examined, overhauled and put in order. new seats. Valves and spindles, fitted where necessary.

New spindles fitted to Safety Valves - Boilers Safety Valves adjusted 218 lbs Superheaters (Schmidt's) Safety Valves lifted at 223 lbs -

Boilers satisfactory under steam -

The scantlings of the machinery and boilers, were compared as far as practicable and found to comply with Hamburg Plenty report 14327. Main gear in accordance with the Rules, on board, together with the necessary tools -

L. G. Challoross + James Nelson

OF THE SURVEYORS ARE REQUESTED



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