

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

(Received at London Office)

MAR 24 1941

Date of writing Report 19 13/3/41 When handed in at Local Office 13/3/41 Port of NEWCASTLE-on-TYNE  
 No. in Survey held at South Shields Date, First Survey 21 Dec 40 Last Survey 4 March 1941  
 on the Machinery of the Wood, Iron or Steel S.S. ROYSTON (No. of Visits 27)

Gross Tonnage 2722 Net Tonnage 1642 Vessel built at Middlesbrough By whom Smith's Dock Co Ltd When 1929-1  
 Engines made at " By whom " When 1929  
 Nominal Horse Power 266 Boilers, when made (Main) 1929 (Donkey) "  
 No. of Main Boilers 2 Owners Lyons & S. Shipping Co Ltd Owners' Address "  
 No. of Donkey Boilers 1 Managers Witherington, Everett Port Newcastle Voyage "  
 Working Pressure in Main Boilers 180 If Surveyed Afloat or in Dry Dock Both  
 No. of Donkey Boilers 1 (State name of Dock.) Redhead James Young & Co

Particulars of Examination and Repairs (if any) None + L.M.C.  
 Periodical Surveys, when held, must be reported in detail and seriatim 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 names 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 Not required

Has a damage report made by anyone else? If so, by whom? Underwriter Surveyor

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

Did this was not done, state for what reasons? Yes

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

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? Yes

What is the latest date of internal examination of each boiler? 20-1-41 Present condition of funnel efficient

Did the Surveyor examine the Safety Valves of the Main Boiler? Yes To what pressure were they afterwards adjusted under steam? 180 lbs

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

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

Did the Surveyor examine the drain plugs of the Main Boilers? Yes, and of the Donkey Boilers? Yes

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

Has the 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? Yes

Has the shaft now been changed? Yes If so, state reasons Yes

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

What is the date of examination of Screw Shaft? 12-2-41 State the distance between lignum vitae or bearing metal of stern bush and top of after bearing of screw shaft 1/32

Engine parts, when referred to by numbers, should be counted from forward. Is electric light and/or power fitted? Yes

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

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

Damage stated to have been caused by grounding at Wexham Dec 7 to 13<sup>th</sup> 40 whilst on a voyage London to Harthpool. For further particulars see ship's log books. Propeller, screw shaft, sea connections, pumping arrangements & outside fastenings examined & found or placed in order. Cylinders, pistons, slides, crank, thrust & inner shafting bearings, pumps & condenser examined & found or placed in an efficient condition. All auxiliary machinery opened up & placed in good working condition. Steam pipes removed in accordance with rules tested to twice working pressure & found in order. Steering engine windlass examined & placed in order.

Repairs. Screw shaft - new liner fitted. Stern bush rewooded. New gasket ring -

General Observations, Opinion, and Recommendation: - The machinery of this vessel (State clearly what alteration, if any, is suggested to be made in the existing classification of the vessel's machinery in the Register Book, consequent upon this survey, and also any alteration required to be made in the records of the vessel's machinery, boilers, working pressures, &c.; thus, for example, B.S. 9, 11, B.&M.S. 9, 11, & L.M.C. 9, 11, or L.M.C. 140 lb., F.D., &c.) is eligible in my opinion to remain as classed to have record of + L.M.C. 3, 4, 1

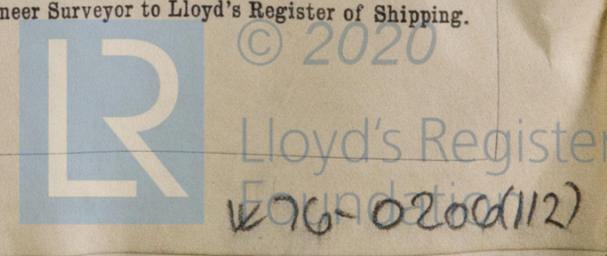
Examination of screw shaft to be recorded 2, 4, 1, c. h.

Survey Fee (per Section 29) £ 11:0:0  
 Special Damage or Repair Fee (if any) (per Section 29.) £ 10:10:0  
 Travelling expenses (if chargeable) £ 2:0:0

Fees applied for 21 MAR 1941  
 Received by me, J. W. Matthews 19 41

Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute 1 APR 1941  
 Assigned + L.M.C. 3, 4, 1



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

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

S. S. ROYSTON

filled. M. P. & L. P. Bottom ends re-mated. Guide plates removed, spaces cleaned & refilled. Thrust shaft tested in lathe. Condenser water tested. S. P. cylinder cover renewed. Lower sea connections removed for access to plate, overhauled & refilled. Air pump - cylinder renewed. T.B. ballast pump - valve gear overhauled. G. S. pump - water end liners rebored, new buckets & rings fitted. Dynamo - cylinder & piston valve chamber rebored - new piston, rings & piston valve fitted. Steering engine - new piston valves, worn in-head fitted. Windlass - new driving pinion & valve spindle pins fitted - guides adjusted. Thrust tunnel shafting aligned.

L.M.C. See survey on machinery for damage  
 13 valves with their mountings & safety valves examined & placed in safe working condition.  
 Safety valves adjusted under steam to the above pressure.

Repairs. Port boiler - 4 c.c. stays renewed. Several rivets renewed in center furnace mouth.

Electrical Installation.

The electrical installation was examined and tested and, after minor repairs and modifications were carried out, was found satisfactory.

W. H. Bowen.