

REPORT ON STEAM RECIPROCATING ENGINE MACHINERY.

Date of writing Report 19 When handed in at Local Office 1 FEB. 1928 19 Port of Sunderland
 No. in Survey held at Sunderland Date, First Survey Apr. 27 Last Survey Jan 26 1928
 Reg. Book. 40032 on the S. S. "BRIGHTON" (Number of Visits 254)
 Built at Sunderland By whom built Short Bros Ltd Yard No. 428 Tons { Gross 5359
 Engines made at Sunderland By whom made John Dickinson & Sons Ltd Engine No. 886 Net 3237
 Boilers made at Sunderland By whom made John Dickinson & Sons Ltd Boiler No. 886 When built 1928
 Registered Horse Power Owners R. Chapman & Son. Port belonging to Newcastle.
 Nom. Horse Power as per Rule 380 ✓ Is Refrigerating Machinery fitted for cargo purposes No ✓ Is Electric Light fitted Yes ✓
 Trade for which Vessel is intended General cargo ✓

ENGINES, &c.—Description of Engines Triple Expansion - Single Screw ✓ Revs. per minute 65 ✓
 Dia. of Cylinders 22½" - 39" - 68" ✓ Length of Stroke 48" ✓ No. of Cylinders 3 ✓ No. of Cranks 3 ✓
 Crank shaft, dia. of journals as per Rule 13.314" ✓ Crank pin dia. 13¾" ✓ Crank webs Mid. length breadth 26¾" ✓ Thickness parallel to axis 8½" ✓
 as fitted 13¾" ✓ Mid. length thickness 8½" ✓ shrunk Thickness around eye-hole 6½" ✓
 Intermediate Shafts, diameter as per Rule 12.68" ✓ Thrust shaft, diameter at collars as per Rule 13.314" ✓
 as fitted 13¾" ✓ as fitted 13¾" ✓
 Tube Shafts, diameter as per Rule 14.12" ✓ Is the tube screw shaft fitted with a continuous liner { Yes ✓
 as fitted 14¾" ✓ as fitted 14¾" ✓
 Bronze Liners, thickness in way of bushes as per Rule .73" ✓ Thickness between bushes as per Rule .548" ✓ Is the after end of the liner made watertight in the
 as fitted 25½" ✓ as fitted ¾" ✓ propeller boss Yes ✓ If the liner is in more than one length are the junctions made by fusion through the whole thickness of the liner ✓
 If the liner does not fit tightly at the part between the bearings in the stern tube, is the space charged with a plastic material insoluble in water and non-corrosive ✓
 If two liners are fitted, is the shaft lapped or protected between the liners ✓ Is an approved Oil Gland or other appliance fitted at the after
 end of the tube shaft ✓ Length of Bearing in Stern Bush next to and supporting propeller 5' 2" ✓
 Propeller, dia. 17' 4" ✓ Pitch 16' 4" ✓ No. of Blades 4 ✓ Material Bronze whether Moveable No ✓ Total Developed Surface 100 ✓ sq. feet
 Feed Pumps worked from the Main Engines, No. Two ✓ Diameter 4" ✓ Stroke 24" ✓ Can one be overhauled while the other is at work Yes ✓
 Bilge Pumps worked from the Main Engines, No. Two ✓ Diameter 4½" ✓ Stroke 24" ✓ Can one be overhauled while the other is at work Yes ✓
 Feed Pumps { No. and size Two Weirs 7" x 9½" x 21" ✓ Pumps connected to the { No. and size One Ballast 9" x 11" x 10" ✓
 How driven Steam ✓ Main Bilge Line How driven Steam ✓
 Ballast Pumps, No. and size One - 9" x 11" x 10" ✓ Lubricating Oil Pumps, including Spare Pump, No. and size ✓
 Are two independent means arranged for circulating water through the Oil Cooler ✓ Suctions, connected to both Main Bilge Pumps and Auxiliary
 Bilge Pumps;—In Engine and Boiler Room 3 @ 3" Dia. ✓
 In Holds, &c. No 1 Hold 2 @ 3" Dia, No 2 Hold 2 @ 3" Dia, No 3 Hold 2 @ 2½" Dia, No 4 Hold 2 @ 2½" Dia,
 No 5 Hold 2 @ 3" Dia, No 6 Hold 2 @ 3" Dia, Tunnel Well 1 @ 2¼" Dia. ✓
 Main Water Circulating Pump Direct Bilge Suctions, No. and size 1 @ 8" Dia ✓ Independent Power Pump Direct Suctions to the Engine Room Bilges,
 No. and size 1 @ 5" Dia. ✓ Are all the Bilge Suction Pipes in holds and tunnel well fitted with strum-boxes Yes ✓
 Are the Bilge Suctions in the Machinery Space led from easily accessible mud-boxes, placed above the level of the working floor, with straight tail pipes to the bilges Yes ✓
 Are all Sea Connections fitted direct on the skin of the ship Yes ✓ Are they fitted with Valves or Cocks Both ✓
 Are they fixed sufficiently high on the ship's side to be seen without lifting the stokehold plates Yes ✓ Are the Overboard Discharges above or below the deep water line Above ✓
 Are they each fitted with a Discharge Valve always accessible on the plating of the vessel Yes ✓ Are the Blow Off Cocks fitted with a spigot and brass covering plate Yes ✓
 What Pipes pass through the bunkers None ✓ How are they protected ✓
 What pipes pass through the deep tanks None ✓ Have they been tested as per Rule ✓
 Are all Pipes, Cocks, Valves, and Pumps in connection with the machinery and all boiler mountings accessible at all times Yes ✓
 Is the arrangement of Valves and their connections such as to prevent the possibility of water passing from the sea or from water tanks into the cargo or machinery spaces, or from one
 compartment to another Yes ✓ Is the Shaft Tunnel watertight Yes ✓ Is it fitted with a watertight door Yes ✓ worked from Top platform ✓

MAIN BOILERS, &c.—(Letter for record (S)) Total Heating Surface of Boilers 5760 ✓
 Is Forced Draft fitted No ✓ No. and Description of Boilers Two Single ended Marine type 258 Working Pressure 220 lbs ✓
 IS A REPORT ON MAIN BOILERS NOW FORWARDED? Yes ✓
 IS A DONKEY BOILER FITTED? Yes ✓ If so, is a report now forwarded? Yes ✓
 PLANS. Are approved plans forwarded herewith for Shafting ✓ Main Boilers Yes ✓ Auxiliary Boilers ✓ Donkey Boilers Yes ✓
 (If not state date of approval)
 Superheaters Yes ✓ General Pumping Arrangements Yes (with Ship Report) Oil fuel Burning Piping Arrangements ✓

SPARE GEAR. State the articles supplied:—C.I. Propeller, Propeller Shaft, 6 Coupling Bolts & Nuts, 2 Main Bearing Bolts & Nuts,
 2 Top End Bolts & Nuts, 2 Bottom End Bolts & Nuts, 2 Feed Pump Valves, 2 Bilge Pump Valves & Seats, 100 Assorted Bolts & Nuts,
 12 Gauge Glasses, 100 Condenser formulae, 1 Cut of bar iron, 1 Cut of Stud Plate, 2 Feed Check Valves, 6 Cylinder Cover Studs,
 6 Junk Ring Bolts & Nuts, 6 Condenser Tubes, 4 Ballast Donkey Valves, 2 Feed Donkey Valves, 6 Boiler Tubes,
 1 Filter Basket, 24 Filter Cartridges, 4 left, 4 right & 4 centre baffle plates. ✓

The foregoing is a correct description,
 for

John Dickinson & Sons, Limited.

Manufacturer.

Director.



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Lloyd's Register
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W459-0149

1927. Apr. 27 May. 2. 11. 20 June. 8. 15. 17 July. 27. 20. 26. 27. Sep. 27. Oct. 7. 11. 14. 18. 28. Nov. 2.
During progress of work in shops - - 22 Dec. 7. 8. 12. 15. 21. 29. 30. 1928. Jan. 4. 5. 6. 7. 9. 10. 11. 12. 13. 17. 19. 20. 21. 22. 24. 25. 26. 30.
Dates of Survey while building
During erection on board vessel - - -
Total No. of visits 1544.

Dates of Examination of principal parts—Cylinders 4-1-28 Slides 12-12-27 Covers 12-1-28
Pistons 26-7-27 Piston Rods 27-9-27 Connecting rods 27-9-27
Crank shaft 15-12-27 Thrust shaft 9-1-28 Intermediate shafts 9-1-28
Tube shaft ✓ Screw shaft Working 5-1-28. Spare 12-1-28. Propellers 9-1-28
Stern tube 29-12-27. Engine and boiler seatings 7-1-28 Engines holding down bolts 21-1-28.
Completion of fitting sea connections 21-12-27.
Completion of pumping arrangements 22-1-28 Boilers fixed 24-1-28 Engines tried under steam 22-1-28
Main boiler safety valves adjusted 26-1-28 Thickness of adjusting washers S.F. 1/32" S.A. 1/32" S. 9/64" S. 3/32" P.F. 1/32" P.A. 1/32" P. 9/64" S. 3/32"
Crank shaft material Ingot Steel Identification Mark LLOYD'S N° 167 Thrust shaft material Ingot Steel Identification Mark A.T.G. 15-12-27
Intermediate shafts, material Ingot Steel Identification Marks LLOYD'S N° 167 Tube shaft, material ✓ Identification Mark ✓
Screw shaft, material Ingot Steel Identification Marks Working LLOYD'S N° 167 Hot Rolled ✓
Steam Pipes, material Solid Drawn Steel Test pressure 660 lbs Date of Test 20-1-28.
Is an installation fitted for burning oil fuel No. ✓ Is the flash point of the oil to be used over 150° F. ✓
Have the requirements of the Rules for carrying and burning oil fuel been complied with ✓
Is this machinery duplicate of a previous case No. ✓ If so, state name of vessel ✓

General Remarks (State quality of workmanship, opinions as to class, &c.)

The materials and workmanship are good.

The Machinery has been constructed under Special Survey, and satisfactorily fitted in the vessel, and is eligible in my opinion for classification and the notation \star L.M.C. 1, 28. ✓

It is submitted that
this vessel is eligible for
THE RECORD. + LMC 1.28. CL

AWD
6/2/28

The amount of Entry Fee ... £ 5 : : When applied for,
Special ... £ 82 : : 1 FEB. 1928
Donkey Boiler Fee ... £ 7 : 18 : When received,
Travelling Expenses (if any) £ 2 : 2 : 4 2 28

A. T. Griffith.
Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute

FRI. 10 FEB 1928

Assigned

+ Rmc 1.28 CL

CERTIFICATE WRITTEN



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