

REPORT ON MACHINERY.

No. 14645.

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Date of writing Report 5th May 1913 When handed in at Local Office 7th May 1913 Port of West Hartlepool
 No. in Survey held at West Hartlepool Date, First Survey 28th June 1912 Last Survey 30th April 1913
 Reg. Book. on the steel screw steamer Dioby (Number of Vents 52)

Master Built at West Hartlepool By whom built Furness B.B. & S. & C. L. Tons 1913
 Engines made at Hartlepool By whom made Richardson, Westgarth & C. L. when made 1913
 Boilers made at Hartlepool By whom made Richardson, Westgarth & C. L. when made 1913
 Registered Horse Power Owners Furness Withy & C. L. Port belonging to W. Hartlepool
 Nom. Horse Power as per Section 28 602 Is Refrigerating Machinery fitted for cargo purposes no Is Electric Light fitted yes

ENGINES, &c.—Description of Engines Triple Expansion No. of Cylinders Three No. of Cranks Three
 Dia. of Cylinders 28-46-74 Length of Stroke 48 Revs. per minute 80 Dia. of Screw shaft as per rule 14.93 Material of stee
 Is the screw shaft fitted with a continuous liner the whole length of the stern tube yes Is the after end of the liner made water tight
 in the propeller boss yes If the liner is in more than one length are the joints burned — 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 yes If two
 liners are fitted, is the shaft lapped or protected between the liners — Length of stern bush 5-7
 Dia. of Tunnel shaft as per rule 13.7 Dia. of Crank shaft journals as per rule 14.39 Dia. of Crank pin 14.3 Size of Crank webs 9 1/2 x 23 1/2 Dia. of thrust shaft under
 collars 15 1/4 Dia. of screw 14-6 Pitch of Screw 14-6 No. of Blades four State whether moveable no Total surface 95 1/2
 No. of Feed pumps two Diameter of ditto 4 1/4 Stroke 24 Can one be overhauled while the other is at work yes
 No. of Bilge pumps two Diameter of ditto 4 3/4 Stroke 24 Can one be overhauled while the other is at work yes
 No. of Donkey Engines two Sizes of Pumps 11 x 100 lb. Bellows, 5 x 6 x 6 lb. Bellows No. and size of Suction connected to both Bilge and Donkey pumps
 In Engine Room four 3 1/2 dia, Tunnel mill 2 1/2 dia In Holds, &c. Eight 3 1/2 dia
 No. of Bilge Injections one sizes 9 1/2 Connected to condenser, or to circulating pump — Is a separate Donkey Suction fitted in Engine room & size yes 3 1/2
 Are all the bilge suction pipes fitted with roses yes Are the roses in Engine room always accessible yes Are the sluices on Engine room bulkheads always accessible yes
 Are all connections with the sea direct on the skin of the ship yes Are they 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 Discharge Pipes above or below the deep water line on water
 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 are carried through the bunkers none How are they protected —
 Are all Pipes, Cocks, Valves, and Pumps in connection with the machinery and all boiler mountings accessible at all times yes
 Are the Bilge Suction Pipes, Cocks, and Valves arranged so as to prevent any communication between the sea and the bilges yes
 Dates of examination of completion of fitting of Sea Connections 23/11/12 of Stern Tube 23/11/12 Screw shaft and Propeller 18/12/12
 Is the Screw Shaft Tunnel watertight yes Is it fitted with a watertight door yes worked from upper platform

BOILERS, &c.—(Letter for record S) Manufacturers of Steel J. Spencer Tom. L. & Sons, Furness C. L.
 Total Heating Surface of Boilers 9142 1/2 Is Forced Draft fitted yes No. and Description of Boilers Three S.E. Multitubular, 4 ft. dia
 Working Pressure 180 lb Tested by hydraulic pressure to 360 lb Date of test 22/11/12 No. of Certificate 3308
 Can each boiler be worked separately yes Area of fire grate in each boiler 69.12 sq ft No. and Description of Safety Valves to
 each boiler no, direct spring Area of each valve 14.2 sq ft Pressure to which they are adjusted 185 lb Are they fitted with easing gear yes
 Smallest distance between boilers or uptakes and bunkers or woodwork 18 in Mean dia. of boilers 16-6 Length 12-0 Material of shell plates steel
 Thickness 1 1/2 Range of tensile strength 28 1/2 to 32 Tons Are the shell plates welded or flanged no Descrip. of riveting: cir. seams as per rule
 long. seams as per rule Diameter of rivet holes in long. seams 1 1/2 Pitch of rivets 10 Lap of plates or width of butt straps 2 1/4
 Per centages of strength of longitudinal joint 86 Working pressure of shell by rules 209.5 lb Size of manhole in shell 16 1/2 x 13
 Size of compensating ring 8 1/2 x 1 1/2 No. and Description of Furnaces in each boiler one, Dispensary Material steel Outside diameter 43 1/4
 Length of plain part top Thickness of plates bottom Description of longitudinal joint welded No. of strengthening rings —
 Working pressure of furnace by the rules 201 lb Combustion chamber plates: Material steel Thickness: Sides 19 Back 19 Top 19 Bottom 13
 Pitch of stays to ditto: Sides 7 3/4 x 8 Back 8 1/2 x 8 1/2 Top 8 1/2 x 7 1/2 If stays are fitted with nuts or riveted heads nuts Working pressure by rules 184 lb
 Material of stays steel Diameter at smallest part 1 3/8 Area supported by each stay 8 1/2 x 8 1/2 Working pressure by rules 180 lb End plates in steam space:
 Material steel Thickness 1 1/2 Pitch of stays 22 1/2 x 16 1/2 How are stays secured by nuts Working pressure by rules 180 lb Material of stays steel
 Diameter at smallest part 3 1/2 Area supported by each stay 16 1/2 x 23 1/2 Working pressure by rules 208 lb Material of Front plates at bottom steel
 Thickness 1 1/2 Material of Lower back plate steel Thickness 1 1/2 Greatest pitch of stays 13 1/2 x 8 1/2 Working pressure of plate by rules 184 lb
 Diameter of tubes 2 1/2 Pitch of tubes 3 3/4 x 3 3/4 Material of tube plates steel Thickness: Front 15 Back 3 1/4 Mean pitch of stays 9 3/8
 Pitch across wide water spaces 13 1/2 Working pressures by rules 185 lb Girders to Chamber tops: Material steel Depth and
 thickness of girder at centre 8 1/2 x 1 3/4 Length as per rule 32 1/2 Distance apart 8 1/2 Number and pitch of stays in each three 7 1/2
 Working pressure by rules 181.5 lb Superheater or Steam chest; how connected to boiler — Can the superheater be shut off and the boiler worked
 separately — Diameter — Length — Thickness of shell plates — Material — Description of longitudinal joint — Diam. of rivet
 holes — Pitch of rivets — Working pressure of shell by rules — Diameter of flue — Material of flue plates — Thickness —
 If stiffened with rings — Distance between rings — Working pressure by rules — End plates: Thickness — How stayed —
 Working pressure of end plates — Area of safety valves to superheater — Are they fitted with easing gear —



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