

Rpt. 4.

REPORT ON MACHINERY.

No. 48500.

Received at London Office

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Date of writing Report 10 When handed in at Local Office 10 Port of Newcastle-on-Tyne
 No. in Survey held at hullend-on-Tyne Date, First Survey 12 Sept 19 Last Survey 16 Aug 1920
 Reg. Book. 34733 on the Steel Se. GASLIGHT (Number of Visits 50) Tons { Gross 1750 Net 1050 1696 997
 Master _____ Built at Newcastle By whom built Wardkinney & Co. Ltd When built 1920
 Engines made at Newcastle By whom made Nash Eastern Marine Eng. Co. Ltd when made 1920
 Boilers made at Sunderland By whom made Nash Eastern Marine Eng. Co. Ltd when made 1920
 Registered Horse Power _____ Owners Gaslight & Coke Co. Ltd. (Stephenson Clarke & Co. Ltd) Port belonging to Londan
 Nom. Horse Power as per Section 28 180 Is Refrigerating Machinery fitted for cargo purposes No. Is Electric Light fitted Yes

ENGINES, &c.—Description of Engines Inverted Triple Expansion No. of Cylinders 3 No. of Cranks 3
 Dia. of Cylinders 19" 31" 51" Length of Stroke 36" Revs. per minute _____ Dia. of Screw shaft 11 1/2" Material of screw shaft Low
 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 _____ If two
 liners are fitted, is the shaft lapped or protected between the liners _____ Length of stern bush 4'-5"
 Dia. of Tunnel shaft as per rule 9.58" Dia. of Crank shaft journals as per rule 10.06" Dia. of Crank pin 10 3/4" Size of Crank webs 2 1/2" x 6 1/2" Dia. of thrust shaft under
 collars 10 3/8" Dia. of screw 14'-3" Pitch of Screw 14'-3" No. of Blades 4 State whether moveable No Total surface 62.9
 No. of Feed pumps 2 Diameter of ditto 3" Stroke 20" Can one be overhauled while the other is at work Yes
 No. of Bilge pumps 2 Diameter of ditto 3 1/2" Stroke 20" Can one be overhauled while the other is at work Yes
 No. of Donkey Engines 2 Sizes of Pumps 2 1/2" x 3 1/2" x 5" Ballcock 11" x 10" No. and size of Suctions connected to both Bilge and Donkey pumps
 In Engine Room 3" In Holds, &c. For 1 Hold 2-3" After Hold 3-3"
 Tunnel well 1-2 1/2"
 No. of Bilge Injections 1 sizes 4" Connected to condenser, or to circulating pump Yes Is a separate Donkey Suction fitted in Engine room & size Yes 3"
 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 None
 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 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 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
 Is the Screw Shaft Tunnel watertight Yes Is it fitted with a watertight door Yes worked from Top Platform

BOILERS, &c.—(Letter for record S) Manufacturers of Steel See Report Sunderland No. 27717
 Total Heating Surface of Boilers 2918 Is Forced Draft fitted No. No. and Description of Boilers Two Single Ended Mult-
 Working Pressure 180 Tested by hydraulic pressure to _____ Date of test _____ No. of Certificate _____
 Can each boiler be worked separately Yes Area of fire grate in each boiler _____ No. and Description of Safety Valves to
 each boiler 2 Spring loaded Area of each valve 4.917 Pressure to which they are adjusted 180 lbs Are they fitted with easing gear Yes
 Smallest distance between boilers or uptakes and bunkers or woodwork 18" Mean dia. of boilers _____ Length _____ Material of shell plates
 Thickness _____ Range of tensile strength _____ Are the shell plates welded or flanged _____ Descrip. of riveting: cir. seams
 long. seams _____ Diameter of rivet holes in long. seams _____ Pitch of rivets _____ Lap of plates or width of butt straps
 Per centages of strength of longitudinal joint _____ Working pressure of shell by rules _____ Size of manhole in shell
 Size of compensating ring _____ No. and Description of Furnaces in each boiler _____ Material _____ Outside diameter _____
 Length of plain part top _____ Thickness of plates crown _____ Description of longitudinal joint _____ No. of strengthening rings
 Working pressure of furnace by the rules _____ Combustion chamber plates: Material _____ Thickness: Sides _____ Back _____ Top _____ Bottom _____
 Pitch of stays to ditto: Sides _____ Back _____ Top _____ If stays are fitted with nuts or riveted heads _____ Working pressure by rules _____
 Material of stays _____ Area at smallest part _____ Area supported by each stay _____ Working pressure by rules _____ End plates in steam space: _____
 Material _____ Thickness _____ Pitch of stays _____ How are stays secured _____ Working pressure by rules _____ Material of stays _____
 Area at smallest part _____ Area supported by each stay _____ Working pressure by rules _____ Material of Front plates at bottom _____
 Thickness _____ Material of Lower back plate _____ Thickness _____ Greatest pitch of stays _____ Working pressure of plate by rules _____
 Diameter of tubes _____ Pitch of tubes _____ Material of tube plates _____ Thickness: Front _____ Back _____ Mean pitch of stays _____
 Pitch across wide water spaces _____ Working pressures by rules _____ Girders to Chamber tops: Material _____ Depth and
 thickness of girder at centre _____ Length as per rule _____ Distance apart _____ Number and pitch of stays in each _____
 Working pressure by rules _____ Steam dome: description of joint to shell _____ % of strength of joint _____
 Diameter _____ Thickness of shell plates _____ Material _____ Description of longitudinal joint _____ Diam. of rivet holes _____
 Pitch of rivets _____ Working pressure of shell by rules _____ Crown plates _____ Thickness _____ How stayed _____

SUPERHEATER. Type _____ Date of Approval of Plan _____ Tested by Hydraulic Pressure to _____
 Date of Test _____ Is a Safety Valve fitted to each Section of the Superheater which can be shut off from the Boiler _____
 Diameter of Safety Valve _____ Pressure to which each is adjusted _____ Is Easing Gear fitted _____

If not, state whether, and when, one will be sent? Is a Report also sent on the Hull of the Ship?



