

REPORT ON MACHINERY.

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Date of writing Report 15th August 1918 When handed in at Local Office 10 Port of NEWCASTLE-ON-TYNE

No. in Survey held at Newcastle Date, First Survey 19th Jan 1911 Last Survey 27th Aug 1918

Reg. Book. on the S.S. "Sea Beach" (Number of Vents)

Master Built at Newcastle By whom built Jno. Don & Co. 213 When built 1918

Engines made at Newcastle By whom made R. & M. Mainie Eng. Co. 2325 when made 1918

Boilers made at Newcastle By whom made Hawthorn Leslie & Co. 8073 when made 1918

Registered Horse Power Owners The Shipping Controller Port belonging to London

Nom. Horse Power as per Section 28 431 Is Refrigerating Machinery fitted for cargo purposes No Is Electric Light fitted Yes

ENGINES, &c.—Description of Engines Triple expansion No. of Cylinders 3 No. of Cranks 3

No. of Cylinders 25" - 41" - 68" Length of Stroke 45" Revs. per minute 80 Dia. of Screw shaft as per rule 13.52" Material of screw shaft as fitted 14.5" screw shaft

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

Is the propeller boss Yes If the liner is in more than one length are the joints burned Yes 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 Yes Length of stern bush 5'-0"

Dia. of Tunnel shaft as per rule 12.41" Dia. of Crank shaft journals as per rule 13.03" Dia. of Crank pin 13.4" Size of Crank webs 21 x 9 3/4" Dia. of thrust shaft under

collars 13.4" Dia. of screw 16'-0" Pitch of Screw 16'-3" No. of Blades 4 State whether moveable No Total surface 80 sq

No. of Feed pumps 2 Diameter of ditto 3 1/2" Stroke 24" Can one be overhauled while the other is at work Yes

No. of Bilge pumps 2 Diameter of ditto 3 1/2" Stroke 24" Can one be overhauled while the other is at work Yes

No. of Donkey Engines 3 Sizes of Pumps 9 1/2" x 7" x 18", 9 1/2" x 7" x 18", 10 1/2" x 12 1/2" No. and size of Suctions connected to both Bilge and Donkey pumps

In Engine Room Four 3" In Holds, &c. No. 1 hold 2-3", No. 2 hold 2-3",

No. 3 hold 2-3", No. 4 hold 2-3", No. 5 hold 2-2 1/2" after hold well 1-3 1/2", Tunnel well 1-2 1/2"

No. of Bilge Injections 1 size 8" Connected to condenser, as 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 No

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 Both

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 Hold suction How are they protected Wood casing

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 3-7-18 of Stern Tube 3-7-18 Screw shaft and Propeller 30-7-18

Is the Screw Shaft Tunnel watertight Yes Is it fitted with a watertight door No worked from Yes

BOILERS, &c.—(Letter for record) Manufacturers of Steel

Total Heating Surface of Boilers Is Forced Draft fitted No. and Description of Boilers

Working Pressure Tested by hydraulic pressure to Date of test No. of Certificate

Can each boiler be worked separately Area of fire grate in each boiler No. and Description of Safety Valves to

each boiler Area of each valve Pressure to which they are adjusted Are they fitted with easing gear

Smallest distance between boilers or uptakes and bunkers or woodwork 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

Percentage of strength of longitudinal joint rivets 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 bottom 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 Diameter 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

Diameter 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 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

Is 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

