

REPORT ON MACHINERY.

No. 25310

Received at London Office

SAT. AUG. 10. 1912

Date of writing Report 9-8-12 When handed in at Local Office 9-8-12 Port of Hull
No. in Survey held at Hull & Selby Date, First Survey Jul 1st Last Survey 3-7-12 19
Reg. Book. 19 upon the Steel screw steamer Baltense (Number of Visits 5)
Master Built at Selby By whom built Cochrane & Sons Tons } Gross 42
Engines made at Yarmouth By whom made Crabtree & Co Ltd } Net 21
Boilers made at Stockton By whom made Riley Bros. When built 1912-7
Registered Horse Power Owners Companhia de Rosarias Baltense when made 1912-7
Nom. Horse Power as per Section 28 Is Refrigerating Machinery fitted for cargo purposes no Is Electric Light fitted no

ENGINES, &c.—Description of Engines See London report No. of Cylinders ✓ No. of Cranks ✓
Dia. of Cylinders ✓ Length of Stroke ✓ Revs. per minute ✓ Dia. of Screw shaft as per rule ✓ Material of }
Is the screw shaft fitted with a continuous liner the whole length of the stern tube ✓ as fitted } screw shaft }
in the propeller boss ✓ 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 ✓
Dia. of Tunnel shaft as per rule ✓ Dia. of Crank shaft journals as per rule ✓ Dia. of Crank pin ✓ Size of Crank webs ✓ Dia. of thrust shaft under
collars ✓ Dia. of screw ✓ Pitch of Screw ✓ No. of Blades ✓ State whether moveable ✓ Total surface ✓
No. of Feed pumps ✓ Diameter of ditto ✓ Stroke ✓ Can one be overhauled while the other is at work ✓
No. of Bilge pumps ✓ Diameter of ditto ✓ Stroke ✓ Can one be overhauled while the other is at work ✓
No. of Donkey Engines one 2' & 2' ejector Sizes of Pumps ✓ No. and size of Suctions connected to both Bilge and Donkey pumps
In Engine Room one 2' & 2' ejector In Holds, &c. 1 2' in each compartment
& 2' ejector to first hold
No. of Bilge Injections one sizes 2 1/2" Connected to condenser to circulating pump yes Is a separate Donkey Suction fitted in Engine room & size yes 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 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
Dates of examination of completion of fitting of Sea Connections 1-7-12 of Stern Tube 1-7-12 Screw shaft and Propeller 1-7-12
Is the Screw Shaft Tunnel watertight ✓ Is it fitted with a watertight door ✓ worked from ✓

BOILERS, &c.—(Letter for record ✓) Manufacturers of Steel ✓
Total Heating Surface of Boilers ✓ Is Forced Draft fitted no No. and Description of Boilers one single ended
Working Pressure 130 lbs Tested by hydraulic pressure to 260 Date of test 27-6-12 No. of Certificate 4901
Can each boiler be worked separately ✓ Area of fire grate in each boiler ✓ 26 ft² No. and Description of Safety Valves to
each boiler two spring loaded Area of each valve 3' 14" Pressure to which they are adjusted 135 Are they fitted with easing gear yes
Smallest distance between boilers or uptakes and bunkers or woodwork 6" boiler lagged 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 rivets plate 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
bottom 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
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

VERTICAL DONKEY BOILER— Manufacturers of Steel

No. Description
 Made at By whom made When made Where fixed
 Working pressure tested by hydraulic pressure to Date of test No. of Certificate Fire grate area Description of Safety
 Valves No. of Safety Valves Area of each Pressure to which they are adjusted Date of adjustment
 If fitted with easing gear If steam from main boilers can enter the donkey boiler Dia. of donkey boiler Length
 Material of shell plates Thickness Range of tensile strength Descrip. of riveting long. seams
 Dia. of rivet holes Whether punched or drilled Pitch of rivets Lap of plating Per centage of strength of joint Rivets
 Working pressure of shell by rules Thickness of shell crown plates Radius of do. No. of stays to do. Dia. of stays
 Diameter of furnace Top Bottom Length of furnace Thickness of furnace plates Description of joint
 Working pressure of furnace by rules Thickness of furnace crown plates Radius of do. Stayed by
 Diameter of uptake Thickness of uptake plates Thickness of water tubes Dates of survey

SPARE GEAR. State the articles supplied:— Two top end bolts, two bottom end bolts, two main bearing bolts, one set of coupling bolts, one set of pump valves, one main & one donkey check valve, one propeller & a quantity of iron & bolts & nuts assorted.

The foregoing is a correct description,

Manufacturer.

Dates of Survey while building { During progress of work in shops - - 1912 July 1. 15. 29. 30. 31
 { During erection on board vessel - - -
 Total No. of visits 5

Is the approved plan of main boiler forwarded herewith *yes*
 " " " donkey " " " ✓

Dates of Examination of principal parts—Cylinders ✓ Slides ✓ Covers ✓ Pistons ✓ Rods ✓
 Connecting rods ✓ Crank shaft ✓ Thrust shaft ✓ Tunnel shafts ✓ Screw shaft ✓ Propeller ✓
 Stern tube ✓ Steam pipes tested 15.7.12 Engine and boiler seatings 1-7-12 Engines holding down bolts 31-7-12
 Completion of pumping arrangements 31-7-12 Boilers fixed 31-7-12 Engines tried under steam 31-7-12
 Main boiler safety valves adjusted 31-7-12 Thickness of adjusting washers Pat 7/16 Lead 7/16
 Material of Crank shaft ✓ Identification Mark on Do. ✓ Material of Thrust shaft ✓ Identification Mark on Do. ✓
 Material of Tunnel shafts ✓ Identification Marks on Do. ✓ Material of Screw shafts ✓ Identification Marks on Do. ✓
 Material of Steam Pipes Copper (solid drawn) Test pressure 400 lbs.

General Remarks (State quality of workmanship, opinions as to class, &c. These engines & boiler have been fitted on board & properly secured. they have been tried under steam satisfactorily the safety valves adjusted & tested. In our opinion the vessel is eligible for the record + L.M.C. 7.12.

It is submitted that this vessel is eligible for THE RECORD. + LMC 7.12

TJS
 13.8.12 *JIM*

Certificate (if required) to be sent to (The Surveyors are requested not to write on or below the space for Committee's Minute.)

The amount of Entry Fee .. £ ✓ : : When applied for, 9.8.12
 Special .. £ ✓ : :
 Donkey Boiler Fee .. £ ✓ : :
 Travelling Expenses (if any) £ - : 11-4 : : When received, 16.8.12

Committee's Minute

Assigned

TUE. AUG. 13. 1912

Thmc 7.12

Frank A. Sturgeon & John W. Fyfe
 Engineer Surveyor to Lloyd's Register of British & Foreign Shipping.



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