

REPORT ON MACHINERY.

No. 48434.

Port of NewcastleReceived at London Office 1905 MAR 9Date, first Survey Aug 23Last Survey March 3 1905No. in Survey held at Newcastle

Reg. Book.

(Number of Visits 27)Tons { Gross 3463Net 2264When built 1905

on the

S/S "Bosanka"Master R. AmerichBuilt at NewcastleBy whom built Northumberland S.S. Co. Ltd.Engines made at NewcastleBy whom made H. & M. Eng. Co. Ltd.when made 1905Boilers made at "By whom made "when made 1905

Registered Horse Power

Owners Hav. a Kap. NapriedPort belonging to RagusaNom. Horse Power as per Section 28 300Is Refrigerating Machinery fitted noIs Electric Light fitted no

ENGINES, &c.—Description of Engines

In C.P.D.No. of Cylinders 3No. of Cranks 3Dia. of Cylinders 24" 40" 65" Length of Stroke 45 Revs. per minute 65Dia. of Screw shaft as per rule 13.9 Material of screw shaft 9Is the screw shaft fitted with a continuous liner the whole length of the stern tube no

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 noLength of stern bush 4' 11"Dia. of Tunnel shaft as per rule 11.6 Dia. of Crank shaft journals as per rule 12.2Dia. of Crank pin 12.5 Size of Crank webs 24 x 8 1/2 Dia. of thrust shaft undercollars 12 1/2 Dia. of screw 16 3 Pitch of screw 17 1/2No. of blades 4 State whether moceable f Total surface 83 1/2No. of Feed pumps 2 1/2 Diameter of ditto 3 1/2 Stroke 24" Can one be overhauled while the other is at work yesNo. of Bilge pumps 2 Diameter of ditto 3 1/2 Stroke 24" Can one be overhauled while the other is at work yesNo. of Donkey Engines 2 Sizes of Pumps 7 1/2 x 9 x 10 1/2 6 x 4 x 6" No. and size of Suctions connected to both Bilge and Donkey pumpsIn Engine Room 4 of 3 1/2 1 of 2 1/2In Holds, &c. 2 of 3 1/2 in each holdNo. of bilge injections 1 sizes 4 Connected to condenser, or to circulating pump C.P. Is a separate donkey suction fitted in Engine room & size 3 1/2Are 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 ✓Are all connections with the sea direct on the skin of the ship yes Are they Valves or Cocks bothAre 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 aboveAre 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 yesWhat 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 yesAre the bilge suction pipes, cocks, and valves arranged so as to prevent any communication between the sea and the bilges yeswere stern tube, propeller, screw shaft, and all connections examined in dry dock new ship Is the screw shaft tunnel watertight yesfitted with a watertight door yes worked from top platformBOILERS, &c.— (Letter for record B) Total Heating Surface of Boilers 4470 Is forced draft fitted noDescription of Boilers 2 S. & E. Marine type Working Pressure 160 lb Tested by hydraulic pressure to 320 lbThe Spring Can each boiler be worked separately yes Area of fire grate in each boiler 64.3 No. and Description of safety valves toArea of each valve 8.3 Pressure to which they are adjusted 160 lb Are they fitted with easing gear yesDistance between boilers or uptakes and bunkers or woodwork 18" Mean dia. of boilers 15 7/8" Length 10' 6" Material of shell plates SRange of tensile strength 32 Are they welded or flanged ends Descrip. of riveting: cir. seams 2. r. lap long. seams d. butt. StrapsPitch of rivets 7 3/4 Lap of plates or width of butt straps 16 5/8"Pitch of rivets in long. seams 18" Working pressure of shell by rules 165 lb Size of manhole in shell 16 x 12"Pitch of rivets in short. seams 8 5/4 Working pressure of shell by rules 165 lb Size of manhole in shell 16 x 12"Pitch of rivets in short. seams 8 5/4 Working pressure of shell by rules 165 lb Size of manhole in shell 16 x 12"Pitch of rivets in short. seams 8 5/4 Working pressure of shell by rules 165 lb Size of manhole in shell 16 x 12"Pitch of rivets in short. seams 8 5/4 Working pressure of shell by rules 165 lb Size of manhole in shell 16 x 12"Pitch of rivets in short. seams 8 5/4 Working pressure of shell by rules 165 lb Size of manhole in shell 16 x 12"Pitch of rivets in short. seams 8 5/4 Working pressure of shell by rules 165 lb Size of manhole in shell 16 x 12"Pitch of rivets in short. seams 8 5/4 Working pressure of shell by rules 165 lb Size of manhole in shell 16 x 12"Pitch of rivets in short. seams 8 5/4 Working pressure of shell by rules 165 lb Size of manhole in shell 16 x 12"Pitch of rivets in short. seams 8 5/4 Working pressure of shell by rules 165 lb Size of manhole in shell 16 x 12"Pitch of rivets in short. seams 8 5/4 Working pressure of shell by rules 165 lb Size of manhole in shell 16 x 12"Pitch of rivets in short. seams 8 5/4 Working pressure of shell by rules 165 lb Size of manhole in shell 16 x 12"Pitch of rivets in short. seams 8 5/4 Working pressure of shell by rules 165 lb Size of manhole in shell 16 x 12"

See note already inside

DONKEY BOILER— No. 1 Description Multitubular.
Made at Gateshead. By whom made Clarke Chapman & Co. When made 1905 Where fixed Main deck
Working pressure 80 tested by hydraulic pressure to 160 lb No. of Certificate 6932 Fire grate area 24 Description of safety valves Spring
No. of safety valves 2 Area of each 5.9 Pressure to which they are adjusted 85 lb If fitted with easing gear Yes If steam from main boilers can enter the donkey boiler No Dia. of donkey boiler 9 ft. Length 9 ft. Material of shell plates S. Thickness 5/8 Range of tensile strength 24/32 Descrip. of riveting long. seams Lap 7. riv. Dia. of rivet holes 13/16 Whether punched or drilled D Pitch of rivets 4 1/4
Lap of plating 6 1/8 Per centage of strength of joint Rivets 82.7 Plates 80.8 Thickness of shell crown-plates 5/8 Radius of do. No. of Stays to do. 6
Dia. of stays. 1 3/4 Diameter of furnace Top 2' 4" Bottom 2' 4" Length of furnace 6' 9" Thickness of furnace plates 7/16 Description of joint L.S.R. Thickness of furnace crown plates 9/16 + 5/8 Stayed by 18 stays Working pressure of shell by rules 88 lb.
Working pressure of furnace by rules 90 lbs Diameter of uptake tubes 3" Thickness of uptake plates 5/8 Thickness of water tubes 10 lb. 9.

SPARE GEAR. State the articles supplied:— 1 set connecting rod top and bottom end bolts and nuts. 2 main bearing bolts and nuts. 1 set of Coupling bolts & nuts. 1 set feed & bilge pump valves propeller nuts bolts and assorted iron.

The foregoing is a correct description,

FOR THE NORTH EASTERN MARINE ENGINEERING CO. LD.

Manufacturer.

J. J. Harrison
Dates During progress of work in shops - - - ASSISTANT SECRETARY. 1904. Aug. 23. Sep. 8. Nov. 4. 10. 14. 16. 21. 22. 28. 29. Dec. 12. 13. 16. 1905. Jan. 6. 14. 18. 19. 20. 23. 24. 27. 31.
of Survey During erection on board vessel - - - Feb. 2. 6. 8. 24. Mch. 3
while building Total No. of visits 27

Is the approved plan of main boiler forwarded herewith Yes

" " " donkey " " " Yes

General Remarks (State quality of workmanship, opinions as to class, &c. Machinery and boilers constructed under special survey. Materials and workmanship good. Engines and boilers examined under full working conditions and found to be satisfactory. In my opinion this vessel is eligible for the record of L.M.C. 3/05 in the Register Book.

It is submitted that this vessel is eligible for THE RECORD

L.M.C. 3.05.

Rel.
9.3.05
Pub.
9.3.05

Newcastle-on-Tyne.

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

The amount of Entry Fee... £ 3 : : :
Special ... £ 35 : : :
Donkey Boiler Fee ... £ : : :
Travelling Expenses (if any) £ : : :
When applied for, 8 MAR 1905
When received, 14/3/05

J. J. Findlay
Engineer Surveyor to Lloyd's Register of British & Foreign Shipping.

Committee's Minute

FRI 10 MAR 1905

Assigned

+ L.M.C. 3.05

MACHINERY CERTIFICATE
WRITTEN



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Foundation