

REPORT ON MACHINERY

No. 3346.

SAT. NOV. 14. 1914

Received at London Office

of writing Report *2/10/14* to *14* When handed in at Local Office *22/10/14* Port of *Calcutta*
 in Survey held at *Calcutta* Date, First Survey *14-4-14* Last Survey *15-10-1914*
 Book. on the *T.S.S. "BADORA"* (Number of Visits *11*)
 ter *Aminulla - 14*. Built at *Bombarton* By whom built *Rivers Steam Nav. Co.* Tons { Gross *279.02*
 Lines made at *Bombarton* By whom made *seamy & Co* when made *1914*
 ers made at *do* By whom made *do* when made *1914*
 5 Registered Horse Power Owners *Rivers Steam Nav. Co* Port belonging to *Calcutta*
 Horse Power as per Section 28 *64* Is Refrigerating Machinery fitted for cargo purposes *do* Is Electric Light fitted *Yes*

PLINES, &c.—Description of Engines

No. of Cylinders	Length of Stroke	Revs. per minute	Dia. of Screw shaft	No. of Cranks
<i>2</i>	<i>24"</i>	<i>100</i>	<i>10"</i>	<i>2</i>

Is the after end of the liner made water tight *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 *Yes*
 Is the space charged with a plastic material insoluble in water and non-corrosive *Yes*
 If two *Yes*
 Length of stern bush *24"*
 Dia. of Crank shaft journals *4"*
 Dia. of Crank pin *2"*
 Size of Crank webs *10"*
 Dia. of thrust shaft under *10"*
 No. of Blades *2*
 State whether moveable *Yes*
 Total surface *100*
 Diameter of ditto *10"*
 Stroke *10"*
 Can one be overhauled while the other is at work *Yes*
 Diameter of ditto *10"*
 Stroke *10"*
 Can one be overhauled while the other is at work *Yes*
 Sizes of Pumps *2"*
 No. and size of Suctions connected to both Bilge and Donkey pumps *2"*
 In Holds, &c. *one in each hold*
 Connected to condenser, or to circulating pump *Yes*
 Is a separate Donkey Suction fitted in Engine room & size *2"*
 Are the roses in Engine room always accessible *Yes*
 Are the sluices on Engine room bulkheads always accessible *Yes*
 Are they Valves or Cocks *Yes*
 Are the Discharge Pipes above or below the deep water line *Yes*
 Are the Blow Off Cocks fitted with a spigot and brass covering plate *Yes*
 How are they protected *Yes*
 Are the pipes 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*
 Date of examination of completion of fitting of Sea Connections *27-7-14*
 of Stern Tube *27-7-14*
 Screw shaft and Propeller *27-7-14*
 Is it fitted with a watertight door *Yes*
 worked from *Yes*

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

Working Pressure	Is Forced Draft fitted	No. and Description of Boilers
<i>150 lbs</i>	<i>Yes</i>	<i>2</i>

Area of fire grate in each boiler *100*
 No. and Description of Safety Valves to *2*
 Area of each valve *10"*
 Pressure to which they are adjusted *130 lbs*
 Are they fitted with easing gear *Yes*
 Mean dia. of boilers *10"*
 Length *10"*
 Material of shell plates *Yes*
 Range of tensile strength *Yes*
 Are the shell plates welded or flanged *Yes*
 Descrip. of riveting: cir. seams *Yes*
 Diameter of rivet holes in long. seams *Yes*
 Pitch of rivets *Yes*
 Lap of plates or width of butt straps *Yes*
 Working pressure of shell by rules *Yes*
 Size of manhole in shell *Yes*
 No. and Description of Furnaces in each boiler *2*
 Material *Yes*
 Outside diameter *Yes*
 Thickness of plates *Yes*
 Description of longitudinal joint *Yes*
 No. of strengthening rings *Yes*
 Combustion chamber plates: Material *Yes*
 Thickness: Sides *Yes*
 Back *Yes*
 Top *Yes*
 Bottom *Yes*
 Working pressure by rules *Yes*
 Material of stays *Yes*
 Diameter at smallest part *Yes*
 Area supported by each stay *Yes*
 Working pressure by rules *Yes*
 End plates in steam space: *Yes*
 Thickness *Yes*
 Pitch of stays *Yes*
 How are stays secured *Yes*
 Working pressure by rules *Yes*
 Material of stays *Yes*
 Area supported by each stay *Yes*
 Working pressure by rules *Yes*
 Material of Front plates at bottom *Yes*
 Thickness *Yes*
 Material of Lower back plate *Yes*
 Thickness *Yes*
 Greatest pitch of stays *Yes*
 Working pressure of plate by rules *Yes*
 Material of tube plates *Yes*
 Thickness: Front *Yes*
 Back *Yes*
 Mean pitch of stays *Yes*
 Working pressures by rules *Yes*
 Girders to Chamber tops: Material *Yes*
 Depth and *Yes*
 Length as per rule *Yes*
 Distance apart *Yes*
 Number and pitch of stays in each *Yes*
 Superheater or Steam chest; how connected to boiler *Yes*
 Can the superheater be shut off and the boiler worked *Yes*
 Diameter *Yes*
 Length *Yes*
 Thickness of shell plates *Yes*
 Material *Yes*
 Description of longitudinal joint *Yes*
 Diam. of rivet *Yes*
 Pitch of rivets *Yes*
 Working pressure of shell by rules *Yes*
 Diameter of flue *Yes*
 Material of flue plates *Yes*
 Thickness *Yes*
 Working pressure by rules *Yes*
 End plates: Thickness *Yes*
 How stayed *Yes*
 Area of safety valves to superheater *Yes*
 Are they fitted with easing gear *Yes*

Lloyd's Register Foundation

005791-005810-0250
005791-005810-0251
005791-005810-0253 1/2

IS A DONKEY BOILER FITTED?

If so, is a report now forwarded?

SPARE GEAR. State the articles supplied:— Two connecting rod bolts for each
Two main bearing bolts ✓ One set coupling bolts ✓
Set of feed & bilge pump valves ✓ One spare tail shaft
Also assorted bolts, nuts & bars of various sizes ✓

The foregoing is a correct description,

Manufacturer.

Dates of Survey while building { During progress of work in shops - - - }
{ During erection on board vessel - - - } 14, 24, 31 July, 1, 19 August, 3rd Sept, 2, 9, 12, 13 & 15 October.
Total No. of visits Eleven.

Is the approved plan of main boiler forwarded herewith

“ “ “ donkey “ “ “

Dates of Examination of principal parts—Cylinders Slides Covers Pistons Rods
Connecting rods Crank shaft Thrust shaft Tunnel shafts Screw shaft 27.7.14 Propeller 27.

Stern tube Steam pipes tested Engine and boiler seatings 14.7.14 Engines holding down bolts 27-7

Completion of pumping arrangements 15.10.14 Boilers fixed 19.8.14 Engines tried under steam 15.10.14

Main boiler safety valves adjusted 15.10.14 Thickness of adjusting washers 1/2" and 1/2"

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 Test pressure

Is an installation fitted for burning oil fuel Is the flash point of the oil to be used over 150°F.

Have the requirements of Section 49 of the Rules been complied with.

Is this machinery duplicate of a previous case? No. ✓ If so, state name of vessel "Mulchira" & "Sitakhor"

General Remarks (State quality of workmanship, opinions as to class, &c.)

The engines & boilers were made at Lumberton in 1914, & shipped to Calcutta for re-erection & completion on board. This work has now been satisfactorily completed in accordance with the Rules. Steam & feed pipes have been tested to 260 lbs. hydraulic pressure, with good results. Main safety valves adjusted to 130 lbs per sq. inch under steam. Machinery tried under steam on completion & found in good order throughout. The machinery of this vessel is eligible in my opinion have record in the Register Book of + L.M.C. (8) 1914.

10 Subordinate dates

John H. Mackenzie

It is submitted that this vessel is eligible for THE RECORD, + L.M.C. 10.14.

J.W.D. 14/11/14

G.P.R.

The amount of Entry Fee ... £ 112/- :
Special ... £ :
Donkey Boiler Fee ... £ :
Travelling Expenses (if any) £ :

When applied for, 16/10/1914
When received, 19/11/14

Engineer Surveyor to Lloyd's Register of British & Foreign Shipping of Great Britain

Committee's Minute TUE NOV 17 1914

Assigned + L.M.C. 10.14

MACHINERY CERTIFICATE WRITTEN



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Certificate (if required) to be sent to this office for the Surveyor.

The Surveyors are requested not to write on or below the space for Committee's Minute.