

REPORT ON MACHINERY.

No. 397.

Port of Calcutta

Received at London Office

JUN 30 JUN 1919

No. in Survey held at

Calcutta

Date, first Survey

Last Survey

19

Book.

18 on the (TWIN) S.S. "PRINCESS"

(Number of Visits)

a main boiler

ster A. Lee

Built at

Kiel

By whom built

Hd. Krupp Akt. Ges.

Gross 8684
Tons Net 6099
When built 5002

Range of gins made at

Kiel

By whom made

Do.

when made 1905

ch of rivets

s made at

Kiel

By whom made

Do.

when made 1905

ys to do.

Registered Horse Power 800

Owners

British Gov.

Port belonging to

by rules

Description. Horse Power as per Section 28

1225

Is Refrigerating Machinery fitted for cargo purposes

Yes

Is Electric Light fitted

Yes

GINES, &c.—Description of Engines

Quadruple, inverted, surface condensing

No. of Cylinders 4

No. of Cranks 4

No. of Cylinders 23 3/8, 34 3/8, 50 3/8, 73 13/16 Length of Stroke 53 13/16

Revs. per minute

Dia. of Screw shaft

as per rule 14 1/4

Material of steel

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

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

ers are fitted, is the shaft lapped or protected between the liners

Yes

Length of stern bush

Yes

Dia. of Tunnel shaft

as per rule 12 3/8

as fitted 14"

Dia. of Crank shaft journals

as per rule 12 9/16

as fitted 14 3/4"

Dia. of Crank pin 15 3/16"

Size of Crank webs 10"

Dia. of thrust shaft under

lars 14 3/4"

Dia. of screw 14 3/4"

Pitch of Screw 20.3'

No. of Blades 4

State whether moveable

Yes

Total surface

85.23 sq. ft.

No. of Feed pumps 2

Diameter of ditto 4.45"

Stroke 2.2"

Can one be overhauled while the other is at work

Yes

No. of Bilge pumps 4

Diameter of ditto 4.45"

Stroke 2.2"

Can one be overhauled while the other is at work

Yes

No. of Donkey Engines 4

Sizes of Pumps 10 1/2" x 12" x 16"

No. and size of Suctions connected to both Bilge and Donkey pumps

In Holds, &c. Two

Engine Room 4 off 4 1/2" Dia.

No. of Bilge Injections 2

sizes 8.45"

Connected to condenser or circulating pump

Yes

Is a separate Donkey Suction fitted in Engine room & size

Yes

4 1/2"

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

Yes

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

Are the pipes carried through the bunkers

Bilge + tank pipes

How are they protected

Iron 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

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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 Plates
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	Stayed by			
Diameter of uptake	Thickness of uptake plates	Thickness of water tubes	Dates of survey		

SPARE GEAR. State the articles supplied:—

The foregoing is a correct description,

Manufacturer.

Dates of Survey while building

During progress of work in shops - -
During erection on board vessel - -
Total No. of visits

Is the approved plan of main boiler forwarded herewith

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 Engine and boiler seatings Engines holding down bolts
Completion of pumping arrangements Boilers fixed Engines tried under steam
Main boiler safety valves adjusted Thickness of adjusting washers
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

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

The machinery and boilers of this vessel have been examined, scantlings ascertained. They are now in good condition, and eligible in my opinion for the favourable consideration of the Committee.

The amount of Entry Fee. £ : : When applied for.
Special Rs. 1500/-
aux. Boiler Fee £ : : When received.
Travelling Expenses (if any) £ : : June 19 1901

Committee's Minute

Assigned

Thomas W. C. Napier

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

FRI JAN 2 - 1902

see later
Report.



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