

REPORT ON MACHINERY.

Port of

Received at London Office **Sat. 14 JUN 1902**

Date, first Survey

Last Survey

19

No. in Survey held at

Reg. Book.

on the *Boiler* for *J. L. Thompson's SS. No 398.**Ramsay*Tons {
Gross
NetWhen built *1902*

Master

Built at *S. Shield*

By whom built

J. Eltringham & Co

when made

Engines made at

By whom made

when made

Boilers made at

By whom made

Port belonging to

Registered Horse Power

Owners

Is Electric Light fitted

Nom. Horse Power as per Section 28

Is Refrigerating Machinery fitted

ENGINES, &c.—Description of Engines

Dia. of Cylinders		Length of Stroke		Revs. per minute	Dia. of Screw shaft		No. of Cylinders		No. of Cranks	
as per rule		as per rule			as fitted					
Dia. of Tunnel shaft	as fitted	Dia. of Crank shaft journals	as fitted	Dia. of Crank pin	Size of Crank webs	Lgth. of stern bush				
collars	Dia. of screw	Pitch of screw	No. of blades	State whether moceable	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	Sizes of Pumps			No. and size of Suctions connected to both Bilge and Donkey pumps						
In Engine Room				In Holds, &c.						

No. of bilge injections sizes Connected to condenser, or to circulating pump Is a separate donkey suction fitted in Engine room & size

Are all the bilge suction pipes fitted with roses Are the roses in Engine room always accessible Are the sluices on Engine room bulkheads always accessible

Are all connections with the sea direct on the skin of the ship Are they Valves or Cocks

Are they fixed sufficiently high on the ship's side to be seen without lifting the stokehold plates Are the discharge pipes above or below the deep water line

Are they each fitted with a discharge valve always accessible on the plating of the vessel Are the blow off cocks fitted with a spigot and brass covering plate

What pipes are carried through the bunkers How are they protected

Are all pipes, cocks, valves, and pumps in connection with the machinery and all boiler mountings accessible at all times

Are the bilge suction pipes, cocks, and valves arranged so as to prevent any communication between the sea and the bilges

When were stern tube, propeller, screw shaft, and all connections examined in dry dock Is the screw shaft tunnel watertight

Donkey fitted with a watertight door worked from

BOILERS, &c.— (Letter for record) Total Heating Surface of Boilers *172* Is forced draft fitted *no*

No. and Description of Boilers *One single ended Malt* Working Pressure *160 lbs* Tested by hydraulic pressure to *320 lbs*

Date of test *31.3.02* Can each boiler be worked separately ☒ Area of fire grate in each boiler *24 sq ft* No. and Description of safety valves to each boiler *two direct spring* Area of each valve *3.14* Pressure to which they are adjusted *160 lbs* Are they fitted with easing gear *yes*

Smallest distance between boilers or uptakes and bunkers or woodwork Mean dia. of boilers *9'6"* Length *9'6"* Material of shell plates *Steel*

Thickness *7/8"* Range of tensile strength *28-32* Are they welded or flanged ☒ Descrip. of riveting: cir. seams *L. D. R* long. seams *Lapped*

Diameter of rivet holes in long. seams *1 1/16"* Pitch of rivets *4 1/2"* Lap of plates on width of butt straps *9'6"*

Per centages of strength of longitudinal joint rivets *7/16"* Working pressure of shell by rules *161 lbs* Size of manhole in shell *16" x 12"*

Size of compensating ring *7" x 8"* No. and Description of Furnaces in each boiler *2 plain* Material *Steel* Outside diameter *35"*

Length of plain part *6'3"* Thickness of plates *3/8"* Description of longitudinal joint *D. B. S* No. of strengthening rings *One*

Working pressure of furnace by the rules *160 lbs* Combustion chamber plates: Material *Steel* Thickness: Sides *2 1/32"* Back *3/8"* Top *2 1/32"* Bottom *3/8"*

Pitch of stays to ditto: Sides *10 1/2 x 8 1/2"* Back *9 1/2 x 8 1/2"* Top *9 1/2 x 9 1/2"* If stays are fitted with nuts or riveted heads *Nuts* Working pressure by rules *163 lbs*

Material of stays *Steel* Diameter at smallest part *1 1/32"* Area supported by each stay *81 sq in* Working pressure by rules *173 lbs* End plates in steam space:

Material *Steel* Thickness *1 1/16"* Pitch of stays *17 x 19"* How are stays secured *by nuts & washers* Working pressure by rules *164 lbs* Material of stays *Steel*

Diameter at smallest part *2 3/32"* Area supported by each stay *306 sq in* Working pressure by rules *165 lbs* Material of Front plates at bottom *Steel*

Thickness *7/8"* Material of Lower back plate *Steel* Thickness *27/32"* Greatest pitch of stays *14 x 9 1/2"* Working pressure of plate by rules *171 lbs*

Diameter of tubes *3 1/2"* Pitch of tubes *4 3/4 x 4 3/4"* Material of tube plates *Steel* Thickness: Front *1 1/16"* Back *25/32"* Mean pitch of stays *14 1/4 x 9 1/2"*

Pitch across wide water spaces *14 1/2"* Working pressures by rules *161 lbs* Girders to Chamber tops: Material *Steel* Depth and thickness of girder at centre *2 plates 5 1/2 x 1 3/8"* Length as per rule *24"* Distance apart *9 5/8"* Number and pitch of Stays in each *1-9 1/2"*

Working pressure by rules *163 lbs* 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

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DONKEY BOILER—

No. Description
Made at By whom made When made Where fixed
Working pressure tested by hydraulic pressure to No. of Certificate Fire grate area Description of safety valves
No. of safety valves Area of each Pressure to which they are adjusted 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 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
Thickness of furnace crown plates Stayed by Working pressure of shell by rules
Working pressure of furnace by rules Diameter of uptake Thickness of uptake plates Thickness of water tubes

SPARE GEAR. State the articles supplied :—

The foregoing is a correct description,

Manufacturer.

Dates { During progress of }
of Survey { work in shops - }
while { During erection on }
building { board vessel - }
Total No. of visits

Is the approved plan of main boiler forwarded herewith

“ “ “ donkey “ “ “

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

Material of screw shaft Is the screw shaft fitted with a continuous liner the whole length of the stern tube
Is the after end of the liner made water tight 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

This boiler has been built under Special Survey
Material & workmanship Good.

The amount of Entry Fee. . . £ : : When applied for,
Special £ : :19....
Donkey Boiler Fee £ : : When received,
Travelling Expenses (if any) £ : :19....

Committee's Minute

Assigned

TUES. 17 JUN 1902

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



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