

REPORT ON MACHINERY.

419516

No. _____ (Received at London Office _____)

No. in Survey held at _____ Date, first Survey _____ Last Survey _____ 18

Reg. Book. _____ (Number of Visits _____)

_____ on the _____ Tons _____

Master _____ Built at _____ When built _____

Engines made at _____ By whom made _____ when made _____

Boilers made at _____ By whom made _____ when made _____

Registered Horse Power _____ Owners _____ Port belonging to _____

ENGINES, &c.—

Description of Engines _____

Diameter of Cylinders _____ Length of Stroke _____ No. of Rev. per minute _____ Point of Cut off, High Pressure _____ Low Pressure _____

Diameter of Screw shaft _____ Diameter of Tunnel shaft _____ Diameter of Crank shaft journals _____ Diameter of Crank pin _____ size of Crank webs _____

Diameter 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 _____

Where do they pump from _____

No. of Donkey Engines _____ Size of Pumps _____ Where do they pump from _____

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

No. of bilge injections _____ and sizes _____ Are they connected to condenser, or to circulating pump _____

How are the pumps worked _____

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 accessible at all times _____

Are the pipes, cocks, and valves arranged so as to prevent an unintentional connection 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 _____ and fitted with a sluice door _____ worked from _____

BOILERS, &c.—

Number of Boilers _____ Description _____

Working Pressure _____ Tested by hydraulic pressure to _____ Date of test _____

Description of superheating apparatus or steam chest _____

Can each boiler be worked separately _____ Can the superheater be shut off and the boiler worked separately _____

No. of square feet of fire grate surface in each boiler _____ Description of safety valves _____

No. to each boiler _____ area of each valve _____ Are they fitted with easing gear _____

No. of safety valves to superheater _____ area of each valve _____ are they fitted with easing gear _____

Smallest distance between boilers and bunkers or woodwork _____

Diameter of boilers _____ Length of boilers _____ description of riveting of shell long. seams _____ circum. seams _____

Thickness of shell plates _____ diameter of rivet holes _____ whether punched or drilled _____ pitch of rivets _____

Lap of plating _____ per centage of strength of longitudinal joint _____ working pressure of shell by rules _____

Size of manholes in shell _____ size of compensating rings _____

No. of Furnaces in each boiler _____ outside diameter _____ length, top _____ bottom _____

Thickness of plates _____ description of joint _____ if rings are fitted _____ greatest length between rings _____

Working pressure of furnace by the rules _____

Combustion chamber plating, thickness, sides _____ back _____ top _____

Pitch of stays to ditto _____ sides _____ back _____ top _____

If stays are fitted with nuts or riveted heads _____ working pressure of plating by rules _____

Diameter of stays at smallest part _____ working pressure of ditto by rules _____

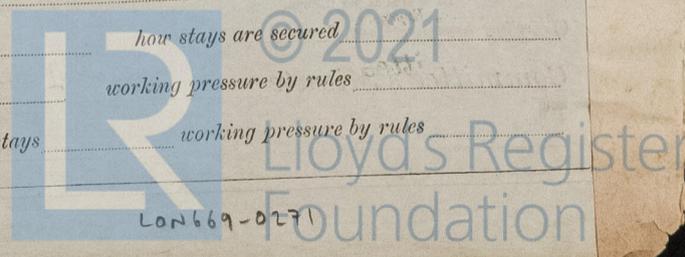
End plates in steam space, thickness _____ pitch of stays to ditto _____ how stays are secured _____

Working pressure by rules _____ diameter of stays at smallest part _____ working pressure by rules _____

Front plates at bottom, thickness _____ Back plates, thickness _____ greatest pitch of stays _____ working pressure by rules _____

State if Report is also sent on the Hull of the Ship

Form No. 8-21/6/82 2000.



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Diameter of tubes _____ pitch of tubes _____ thickness of tube plates, front _____ back _____
 How stayed _____ pitch of stays _____ width of water spaces _____
 Diameter of Superheater or Steam chest _____ length _____
 Thickness of plates _____ description of longitudinal joint _____ diameter of rivet holes _____ pitch of rivets _____
 Working pressure of shell by rules _____ Diameter of flue _____ thickness of plates _____
 If stiffened with rings _____ distance between rings _____ Working pressure by rules _____
 End plates of superheater, or steam chest; thickness _____ How stayed _____
 Superheater or steam chest; how connected to boiler _____

DONKEY BOILER- Description *Cochran's Patent*
 Made at *Newcastle* By whom made *Clarke, Chapman & Co* when made *Oct. 1882*.
 Where fixed *On deck* working pressure *75 lbs*: Tested by hydraulic pressure to *160 lbs* No. of Certificate _____
 Fire grate area *8.7 ft* Description of safety valves *Druidspung* No. of safety valves *one* area of each *7.06*
 If fitted with casing gear *Yes* If steam from main boilers can enter the donkey boiler *Yes*
 Diameter of donkey boiler *4' 3"* length *8 ft* description of riveting *double lap*
 thickness of shell plates *1/2"* diameter of rivet holes *3/4"* whether punched or drilled *punched*
 pitch of rivets *3"* lap of plating *4 1/2"* per centage of strength of joint *75%*
 thickness of crown plates *5/8"* stayed by *✓*
 Diameter of furnace, top *3' 4"* bottom *✓* length of furnace *✓*
 thickness of plates *1/2"* description of joint *single rivet*
 thickness of furnace crown plates *5/8"* stayed by *✓*
 Working pressure of shell by rules *114 lbs* working pressure of furnace by rules _____
 diameter of uptake *✓* thickness of plates *✓* thickness of water tubes *✓*

The foregoing is a correct description,

 Manufacturer.

General Remarks (State quality of workmanship, opinions as to class, &c. *Material & Workmanship appear to be good.*)

^{23/11/82}
Donkey Boilr. £ 2.. 2
 The amount of Entry Fee .. £ : : received by me, }
 Special £ : : } *47.6*
 Certificate (if required) .. £ : : *28/11/1882*
 To be sent as per margin.
 (Travelling Expenses, if any, £ _____)

Geo. C. Milner
 Engineer Surveyor to Lloyd's Register of British & Foreign Shipping.

Committee's Minute _____
 Friday, 24th November, 1882.

