

REPORT ON MACHINERY.

No. _____

(Received at London Office _____)

No. in Survey held at _____
Reg. Book. _____

Date, first Survey _____

Last Survey _____

18

(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 _____)

41951 Don

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 Quickspring 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, } 47.6
Special £ : :
Certificate (if required) .. £ : : 28/11 1882
To be sent as per margin.
(Travelling Expenses, if any, £ _____)

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

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