

Donkey Boiler
REPORT ON MACHINERY. 8205

No. 8205 Port of Shull
No. in Survey 1 at Newark Date, first Survey Mar 3rd Last Survey Mar 23rd 1892
Reg. Book. on the Steamer Annie Maud (Number of Plates 3)
Master Built at Southampton By whom built Southampton Naval Yard When built 1892
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 _____
Diam. of Cylinders _____ Length of Stroke _____ Rev. per minute _____ No. of Cylinders _____
Diameter of Screw shaft _____ Diam. of Tunnel shaft _____ Diam. of Crank shaft journals _____ Point of Cut off, High Pressure _____ Low Pressure _____
Diameter of screw _____ Pitch of screw _____ No. of blades _____ state whether moveable _____ size of Crank webs _____
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.—

No. of Boilers _____ Description _____ Material _____ Letter (for record) _____
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 _____
Percentage of strength of longitudinal joint _____ working pressure of shell by rules _____ size of manholes in shell _____
No. of compensating rings _____ No. of Furnaces in each boiler _____ Description of Furnaces _____
Outside diameter _____ length _____ 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 _____ hour 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 _____ 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 _____ diam. 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 _____

HUL406-0123

DONKEY BOILER— Description *Vertical Cylinder with internal furnace*
Made at *Newark* by whom made *Abbott & Co.* when made *1892* where fixed
Working pressure *90 lb.* tested by hydraulic pressure to *180 lb.* No. of Certificate *544* fire grate area description of safety
valves No. of safety valves area of each if fitted with easing gear if steam from main boilers can
enter the donkey boiler diameter of donkey boiler *4'6"* length *9'0"* description of riveting *double lap*
Thickness of shell plates *9/16"* diameter of rivet holes *1 3/16"* whether punched or drilled *drilled* pitch of rivets *2 7/8"* lap of plating *4"*
per centage of strength of joint *71.7* thickness of crown plates *9/16"* stayed by *4 - 1 1/4 stays*
Diameter of furnace, top *4'4"* bottom *4'6"* length of furnace *4'6"* thickness of plates *1/2"* description of joint *welded*
Thickness of furnace crown plates *1/2"* stayed by *4 - 1 1/4 stays* working pressure of shell by rules *100 lb.*
Working pressure of furnace by rules *90 lb.* diameter of uptake *12"* thickness of plates *1/2"* thickness of water tubes *3/8"*

SPARE GEAR. State the articles supplied:—

The foregoing is a correct description,

Manufacturer.

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

*New Donkey Boiler built under special survey
and tested as required by the Rules.*

*To be sent to Southampton to be fitted on
board. Southampton Naval Works Co. S.O. No 270—*

*It is submitted that this report be considered
satisfactory and should be forwarded to Southampton
for the Surveyor's guidance in completing the
Survey.*

*W.A.
31/3/92*

The amount of Entry Fee .. £ ✓ : : received by me,

Special .. £ ✓ : :

Donkey Boiler Fee .. £ *2:2:-*

Certificate (if required) .. £ ✓ : :

To be sent as per margin.

(Travelling Expenses, if any, £ *1:17:6*)

Committee's Minute

*Write Son - Rpt to Son
31/3/92*

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



Lloyd's Register
Foundation