

REPORT ON MACHINERY.

No. 2347.

THURS 30 JUNE 1887

No. in Survey held at
Reg. Book.

Penarth

Date, first Survey July 23/85 Last Survey June 14 1887

on the

Iron S.S. "Albatros"

(Number of Visits) 341
Tons 201

Master G. S. Elliott Built at Penarth By whom built The Penarth Shipbuilding & Repairing Co. When built 1885 & 6

Engines made at Penarth By whom made The Penarth Shipbuilding & Repairing Co. when made 1885 & 6

Boilers made at Llanelly By whom made Mr. W. Neville (Llanelly) when made 1885

Registered Horse Power 55 Owners Mr T. A. Walker Port belonging to London

ENGINES, &c.—

Description of Engines Compound, Inverted, direct acting, Surface Condensing

Diameter of Cylinders 30 1/2 Length of Stroke 24 No. of Rev. per minute Point of Cut off, High Pressure 1/5 Low Pressure 1/5

Diameter of Screw shaft 6 1/4 Diam. of Tunnel shaft 6 1/4 Diam. of Crank shaft journals 6 1/4 Diam. of Crank pin 6 1/4 size of Crank webs 4 3/4 x 4 3/4

Diameter of screw 9 ft Pitch of screw 11 ft No. of blades 3 state whether moveable No total surface 21 sq ft

No. of Feed pumps One diameter of ditto 3 1/8 Stroke 12 Can one be overhauled while the other is at work

No. of Bilge pumps One diameter of ditto 3 1/8 Stroke 12 Can one be overhauled while the other is at work

Where do they pump from Each compartment

No. of Donkey Engines One Size of Pumps 3 1/2 dia cyl 6 dia Stroke 7 Where do they pump from the sea, fore peak tank

hotwell, and bilges of each compartment

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

No. of bilge injections One and sizes 4 dia Are they connected to condenser, or to circulating pump cut pump

How are the pumps worked By levers on the S. P. engine

Are 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 above

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 pipes carried through the bunkers None How are they protected

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

Are pipes, cocks, and valves arranged so as to prevent an unintentional connection between the sea and the bilges Yes

Were stern tube, propeller, screw shaft, and all connections examined in dry dock previous to launching

Is screw shaft tunnel watertight None fitted and fitted with a sluice door worked from

BOILERS, &c.—

No. of Boilers One Description Ordinary multitubular Whether Steel or Iron all iron

Working Pressure 80 lbs Tested by hydraulic pressure to 160 Date of test November 20th 1885

Position of superheating apparatus or steam chest horizontal dome

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

Square feet of fire grate surface in each boiler 33 sq ft Description of safety valves direct spring No. to each boiler two

Area of each valve 8.946 sq ft Are they fitted with easing gear Yes No. of safety valves to superheater area of each valve

Are they fitted with easing gear Yes Smallest distance between boilers and bunkers or woodwork 11" from bunkers Diameter of boilers 10' 6"

Description of riveting of shell long. seams dbl riv butt circum. seams dbl riv lap Thickness of shell plates 3/32

No. of rivet holes 1 1/6 whether punched or drilled drilled pitch of rivets 4 1/2 Lap of plating Straps 10"

Age of strength of longitudinal joint 46.4 working pressure of shell by rules 82 lbs size of manholes in shell 15" x 11"

Compensating rings 5 1/4 x 23 1/2 No. of Furnaces in each boiler two

Diameter 34" length, top 6 ft bottom 8 ft 3" thickness of plates 1/2" description of joint S riv butt if rings are fitted 2 1/2 x 3 1/4

Length between rings 6 ft working pressure of furnace by the rules 100 lbs combustion chamber plating, thickness, sides 1/16 back 1/16 top 1/16

Stays are fitted with nuts or riveted heads nuts working pressure of plating by

40 lbs Diameter of stays at smallest part 1 3/8 screw working pressure of ditto by rules 103 lbs end plates in steam space, thickness 5"

Stays to ditto 13" x 14" how stays are secured nuts & riv washers working pressure by rules 81 lbs diameter of stays at

Smallest part 2" x 2 3/8 ends (Iron) working pressure by rules 96 lbs Front plates at bottom, thickness 1/2" Back plates, thickness 1/2"

Pitch of stays 12 working pressure by rules Diameter of tubes 3 1/4 to 4 pitch of tubes 4 1/2 x 5 thickness of tube

How stayed Stay tubes pitch of stays 13 3/4 width of water spaces 5"

Diameter of Superheater or Steam chest 24" length 6 ft thickness of plates 1/16 description of longitudinal joint dbl riv lap diam. of rivet holes 15/16

Pitch of rivets 2 5/8 working pressure of shell by rules 144 lbs 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 9/16 how stayed one longitudinal

stay 2 dia, ends dished Superheater or steam chest; how connected to boiler neck 15" x 3/4

DONKEY BOILER—

Description

None fitted

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 _____ if fitted with easing gear _____ if steam from main boilers can
 enter the donkey boiler _____ diameter of donkey boiler _____ length _____ description of riveting _____
 Thickness of shell plates _____ diameter of rivet holes _____ whether punched or drilled _____ pitch of rivets _____ lap of plating _____
 per centage of strength of joint _____ thickness of crown plates _____ stayed by _____
 Diameter of furnace, top _____ bottom _____ length of furnace _____ thickness of plates _____ description of joint _____
 Thickness of furnace crown plates _____ stayed by _____ working pressure of _____
 Working pressure of furnace by rules _____ diameter of uptake _____ thickness of plates _____ thickness of water _____

SPARE GEAR. State the articles supplied:— 1 propeller, 1 tail shaft, 1 slide valve spindle 1 air pump and
 and rod with guards and valves complete one pair of crank pin brasses one pair of
 crosshead brasses, 2 Top end and 2 bottom end bolts and nuts 6 coupling bolts 2
 main bearing bolts 1 H & L pressure packing ring 1 piston springs, 2 feed & bilge pump valves
 The foregoing is a correct description,
 For the Penarth Ship Building & Repairing Co. Ltd., Manufacturer. 20 boiler tubes 20 condenser tubes
 a quantity of _____

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

The Machinery of this vessel has been built under special survey
 The materials and workmanship are good and the vessel is eligible
 in our opinion to be classed and to have the notification
 + L.M.C. 6.87 recorded in the Registerbook.

The amount of Entry Fee .. £ 1 : : : received by me,
 Special .. £ 8 : 5 : : per telegram
 Donkey Boiler Fee .. £ - : - : -
 Certificate (if required) .. £ : : : 7/7/1887
 To be sent as per margin.
 (Travelling Expenses, if any, £ 1 : 15 : 6)

Committee's Minute

FRIDAY 1

JULY 1887

+ M.W.

G.L. Hindmarsh & K. Leaper
 Engineer Surveyors to Lloyd's Register of British & Foreign



Lloyd's Register
 Foundation

Don date of
 build
 4/7/87

It is submitted that this vessel
 is eligible to have the notification
 + L.M.C. 6.87 recorded

30/6/87

Cert