

REPORT ON MACHINERY.

Port of BARRY.

Received at London Office 18

Date, first Survey 10th March 1891 Last Survey 7th November 1897

(Number of Visits 24)

No. in Survey held at Mary

on of 44 on the Mon. Screw Steamer "Olive"

Master Geo. H. Fisher Built at Mary

By whom built Mary Graving Dock & Ship Co. (Ld) When built 1891-2

Engines made at Mary

By whom made Mary Graving Dock & Ship Co. (Ld) when made 1891-2

Cylinders made at Mary

By whom made G. H. Stothert & Co when made 1891

Registered Horse Power 80

Owners Mary Railway Co Port belonging to Mary, Port of Cardiff

nom. Horse Power as per Section 28

GINES, &c.— Description of Engines Double-acting Compound bric-acting Surface Condensing No. of Cylinders two

Diameter of Cylinders 6 + 3 1/2 Length of Stroke 18" Revolutions per minute 220 Diameter of Screw shaft 5.46
 as per rule 5.21 as fitted 5.75

Diameter of Tunnel shaft 5.5 Diameter of Crank shaft journals 5.75 Diameter of Crank pin 5.75 Size of Crank webs 7 1/2 x 4 1/8

Diameter of screw 6 - 9 Pitch of screw 10 - 6 No. of blades 2 State whether moveable no Total surface 12.75 sq ft.

No. of Feed pumps One Diameter of ditto 2 1/4 Stroke 9" Can one be overhauled while the other is at work

No. of Bilge pumps One Diameter of ditto 2 1/4 Stroke 9" Can one be overhauled while the other is at work

No. of Donkey Engines One Sizes of Pumps 6 x 6 x 3 1/4 No. and size of Suctions connected to both Bilge and Donkey pumps Manual pumps only + Muzzlehead sluice

Engine Room 3 in No from Sea, Bilge + Hotwell 2 1/2 In Hold, &c.

Is a separate donkey suction fitted in Engine room of size Yes - 2 1/2"

Are the roses in Engine room always accessible Yes Are the sluices on Engine room bulkheads always accessible Yes

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

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

How are they protected Yes -

That pipes are carried through the bunkers none

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

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

When were stern tube, propeller, screw shaft, and all connections examined in dry dock 3rd Nov. 1892 Is the screw shaft tunnel watertight

Is it fitted with a watertight door worked from

BOILERS, &c.— (Letter for record) Total Heating Surface of Boilers

No. and Description of Boilers Working Pressure Tested by hydraulic pressure to

Date of test Can each boiler be worked separately Area of fire grate in each boiler No. and Description of safety valves to

Each boiler Area of each valve Pressure to which they are adjusted Are they fitted

With easing gear Smallest distance between boilers or uptakes and bunkers or woodwork Mean diameter of boilers

Length Material of shell plates Thickness Description of riveting: circum. seams long. seams

Diameter of rivet holes in long. seams Pitch of rivets Lap of plates or width of butt straps

Percentages of strength of longitudinal joint Working pressure of shell by rules Size of manhole in shell

Size of compensating ring No. and Description of Furnaces in each boiler Material Outside diameter

Length of plain part Thickness of plates Description of longitudinal joint No. of strengthening rings

Working pressure of furnace by the rules Combustion chamber plates: Material Thickness: Sides Back Top Bottom

Pitch of stays to ditto: Sides Back Top If stays are fitted with nuts or riveted heads Working pressure by rules End plates in steam space:

Material of stays Diameter at smallest part Area supported by each stay Working pressure by rules Material of stays

Material Thickness Pitch of stays How are stays secured Working pressure by rules Material of Front plates at bottom

Diameter at smallest part Area supported by each stay Working pressure by rules Working pressure of plate by rules

Thickness Material of Lower back plate Thickness Greatest pitch of stays Working pressure of plate by rules

Diameter of tubes Pitch of tubes Material of tube plates Thickness: Front Back Mean pitch of stays

Pitch across wide water spaces Working pressures by rules Girders to Chamber tops: Material Depth and

Thickness of girder at centre Length as per rule Distance apart Number and pitch of Stays in each

Working pressure by rules 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



DONKEY BOILER— 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 casing gear _____ If steam from main boilers can enter the donkey boiler _____
 Diameter of donkey boiler _____ Length _____ Material of shell plates _____ Thickness _____
 Description of riveting long seams _____ Diameter of rivet holes _____ Whether punched or drilled _____ Pitch of rivets _____
 Lap of plating _____ Per centage of strength of joint _____ Rivets _____ 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:—
 for each engine - two Connecting rod top and bottom end bolts - two
 Main bearing bolts, one set of Coupling bolts, one set of feed and large pump
 valves, quantity of assorted bolts and nuts also iron of various pipes -
 for Boy's frame Dock & Machinery Coy (limited)
 The foregoing is a correct description,
 Manufacturer. John Gordon Manager

General Remarks (State quality of workmanship, opinions as to class, &c.)
 The Machinery of this vessel has been constructed under Special Survey. The materials and workmanship are good and efficient. The Engines and Boilers have been tried under steam and in my opinion are in good and safe working condition and eligible for the distinguishing mark. **L.M.C.** in the Register book of the Society.

It is submitted that this vessel WILL BE eligible for the record. + L.M.C. 11-92
 When a bilge injection or a bilge suction to the circulating pumps has been fitted
 W.A.
 14-11-92

The Surveys are requested not to write on or below the space for Committee's Minute.

Certificate (if required) to be sent to
 The amount of Entry Fee.. £ 1 : 0 :
 Special £ 8 : 0 :
 Donkey Boiler Fee £
 Travelling Expenses (if any) £ WRITTEN
 When applied for, 14th Oct. 1892
 When received, 14th Oct. 1892

John B Taylor.
 Engineer Surveyor to Lloyd's Register of British & Foreign Shipping.

Committee's Minute **TUES. 15 NOV 1892**
 Assigned **Deferred**

TUES. 13 DEC 1892
 + L.M.C. 11, 92
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