

REPORT ON MACHINERY.

No. 21222

Port of Newcastle-on-Tyne

FRIDAY 16 MARCH 1888

No. in Survey held at South Shields

Date, first Survey 4th Oct/87 Last Survey March 13th 1888

Reg. Book.

(Number of Visits 33) 0.65

on the Paddle Steamer "WEXFORD"

Tons 140 90 (gross)

Master ☒ Built at South Shields By whom built J. Y. Eltingham Esq When built 0.65 (Nett) 1888

Engines made at S. Shields By whom made J. P. Newboldson Esq when made 1888

Boilers made at S. Shields By whom made J. Y. Eltingham Esq when made 1888

Registered Horse Power 80 H.P. Owners Wexford Harbour Com^y Port belonging to Wexford

ENGINES, &c.—

Description of Engines Side Lever.

Diameter of Cylinders 28" & 28" Length of Stroke 30 No. of Rev. per minute 40 Point of Cut off, High Pressure 16 1/4" Low Pressure 16 1/4"

Diameter of Screw shaft ☒ Diam. of Tunnel shaft ☒ Diam. of Crank shaft journals 8" Diam. of Crank pin 5" size of Crank webs 3 1/2" x 8"

Diameter of screw ☒ Pitch of screw ☒ No. of blades ☒ state whether moreable ☒ total surface ☒

No. of Feed pumps 2 diameter of ditto 4 1/2" Stroke 15" Can one be overhauled while the other is at work Yes

No. of Bilge pumps 2 diameter of ditto 4 1/2" Stroke 15" Can one be overhauled while the other is at work Yes

Where do they pump from Engine Room Bilges

No. of Donkey Engines 1 Size of Pumps 6" x 8" Where do they pump from Sea & bilges in engine room

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 2 and sizes 2 1/2" Are they connected to condenser, or to circulating pump Pump

How are the pumps worked Levers

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

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 ☒

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

What pipes are carried through the bunkers None How are they protected

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

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

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 2 Description Cylind^r single ended Whether Steel or Iron Steel

Working Pressure 45 lbs Tested by hydraulic pressure to 90 lbs. Date of test December 22nd 1887

Description of superheating apparatus or steam chest Horizontal Dome inside funnel (part).

Can each boiler be worked separately Yes Can the superheater be shut off and the boiler worked separately No

No. of square feet of fire grate surface in each boiler 26 sq ft Description of safety valves Spring No. to each boiler 2

Area of each valve 8.3 sq in Are they fitted with easing gear Yes No. of safety valves to superheater ☒ area of each valve ☒

Are they fitted with easing gear ☒ Smallest distance between boilers and bunkers or woodwork 12" Diameter of boilers 8' 9"

Length of boilers 10' 0" description of riveting of shell long. seams D. L. circum. seams D. L. Thickness of shell plates 3/8"

Diameter of rivet holes 7/8" whether punched or drilled drilled pitch of rivets 2 3/4" Lap of plating ☒

Per centage of strength of longitudinal joint 68 working pressure of shell by rules 48 size of manholes in shell 12' x 16"

Size of compensating rings 5' x 3/8" No. of Furnaces in each boiler 2

Outside diameter 33" length, top 7' 0" bottom 9' 6" thickness of plates 13/15 description of joint L. Lap. if rings are fitted No

Greatest length between rings ☒ working pressure of furnace by the rules 60 combustion chamber plating, thickness, sides 15/32 back 15/32 top 15/32

Pitch of stays to ditto, sides 12" back 12 1/2" top 12 1/2" If stays are fitted with nuts or riveted heads Nuts working pressure of plating by

rules ☒ Diameter of stays at smallest part 15/16" working pressure of ditto by rules 46 end plates in steam space, thickness 2 1/2"

Pitch of stays to ditto 18" x 18" how stays are secured Nuts & W working pressure by rules 54 diameter of stays at

smallest part 1 1/2" working pressure by rules 49 Front plates at bottom, thickness 1/2" Back plates, thickness 15/32"

Greatest pitch of stays 12" working pressure by rules 47 Diameter of tubes 4" external pitch of tubes 5 1/8" thickness of tube

plates, front 2 1/2" back 9/16" how stayed Tubes pitch of stays 15 3/8" width of water spaces 8"

Diameter of Superheater or Steam chest 3' 3" length 6' 3" thickness of plates 3/8" description of longitudinal joint L. Lap diam. of rivet holes 7/8"

Pitch of rivets 2 1/8" working pressure of shell by rules 100 diameter of flue None 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 3' 0" radius

& one 1 1/2" effective dia stay Superheater or steam chest; how connected to boiler Flanged neck 12' x 16"

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 _____ 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 shell by rules _____
 Working pressure of furnace by rules _____ diameter of uptake _____ thickness of plates _____ thickness of water tubes _____

SPARE GEAR. State the articles supplied:— 4 Piston Bolts — 4 Radius Rod Pins — 2 Trail
 Crank Bolts — 2 Main Bearing Bolts — 2 Tail Bar Bolts — 1 Gib
 & Cotter for Connecting Rod. — And other stores as per Specification

The foregoing is a correct description,
 Wm. J. Eltingham
 Manufacturer.

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

The Machinery for the above vessel has been
 constructed under ^{our} survey & is in ^{our} opinion of
 excellent workmanship & is in safe & good working condition
 eligible for classification as + L.M.C.-3-88

Main Boilers Safety Valves adjusted under steam to blow at 45 lbs per sq. in.

It is submitted that this
 vessel is eligible to have the
 notification + L.M.C. 3-88
 recorded

19/3/88

The amount of Entry Fee . . . £ 1 : - : -
 Extra attendance . . . £ 12 : - : -
 Donkey Boiler Fee . . . £ 3 : 5 : -

Certificate (if required) . . . £ - : - : -
 To be sent as per margin.

(Travelling Expenses, if any, £)

Committee's Minute FRIDAY 23 MARCH 1888

+ L.M.C. 3/88

at the
 received by me
 £13 only

17/3/1888

William L. Eltingham & J. Johnstone Browne
 Engineer Surveyor to Lloyd's Register of British & Foreign Shipping.



Lloyd's Register
 Foundation