

REPORT ON MACHINERY.

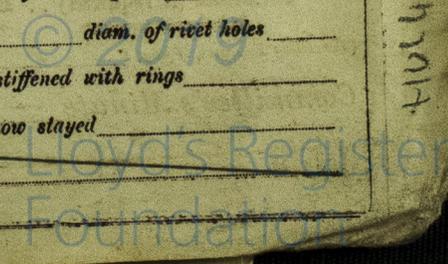
TUES. 23 JUN 1891

788
 Port of Bull
 Survey held at Berkeley & Bull Date, first Survey Mar. 4th Last Survey Jun 17th 1891
 (Number of Visits 17)
 the Iron Steam Trawler *Coyne* Tons Gross - 157
Net - 63
 Built at Berkeley By whom built Cochrane Cooper & Schepers When built 1891
 Made at Bull By whom made Amos Smith when made 1891
 Made at Bull By whom made Amos Smith when made 1891
 Horse Power 45 Owners Kingston Steam Trawling Co Port belonging to Bull

S, &c.—
 of Engines Compound Inverted Direct Acting No. of Cylinders two
 Cylinders 16" x 32" Length of Stroke 22" Rev. per minute 104 Point of Cut off, High Pressure .6 Low Pressure .6
 Screw shaft 6 1/2" Diam. of Tunnel shaft 6 1/4" Diam. of Crank shaft journals 6 1/2" Diam. of Crank pin 6 1/2" size of Crank webs 9 1/2" x 4 1/2"
 screw 7.9" Pitch of screw 11.6" No. of blades 4 state whether moveable - total surface 1929 sq ft
 pumps one diameter of ditto 2 1/2" Stroke 12" Can one be overhauled while the other is at work -
 pumps one diameter of ditto 2 1/2" Stroke 12" Can one be overhauled while the other is at work -
 they pump from Engine room Bilge & Hold
 key Engines one Size of Pumps 2 1/2" x 4" duplex Where do they pump from Bilge Hold & Hold
 bilge suction pipes fitted with roses Yes Are the roses always accessible Yes Are the sluices on Engine room bulkheads always accessible -
 injections one and sizes 3" Are they connected to condenser, or to circulating pump Circulating Pumps
 pumps worked By rocking levers from forward Engine piston rod crosshead
 connections with the sea direct on the skin of the ship Yes Are they Valves or Cocks both
 placed 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
 which 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
 which are carried through the bunkers ducts to forward How are they protected hood cased
 pipes, cocks, valves, and pumps in connection with the machinery accessible at all times Yes in Engine room
 pipes, cocks, and valves arranged so as to prevent an unintentional connection between the sea and the bilges Yes
 stern tube, propeller, screw shaft, and all connections examined in dry dock now run Launched 27th April 1891
 screw shaft tunnel watertight - and fitted with a sluice door - worked from -

S, &c.—
 Boilers one Description Cylindrical Multitubular Material Steel Letter (for record) S
 pressure 110 lbs Tested by hydraulic pressure to 220 lbs Date of test 5th June 1891
 of superheating apparatus or steam chest none fitted
 boiler be worked separately - Can the superheater be shut off and the boiler worked separately -
 square feet of fire grate surface in each boiler 30.5 sq ft Description of safety valves Spring loaded No. to each boiler two
 each valve 7.87 sq in Are they fitted with easing gear Yes No. of safety valves to superheater - area of each valve -
 fitted with easing gear - Smallest distance between boilers and bunkers or woodwork 6" Diameter of boilers 10.9"
 boilers 9.6" description of riveting of shell long. seams all strap all circum. seams all on lap Thickness of shell plates 29/32
 of rivet holes 29/32 whether punched or drilled drilled pitch of rivets 4 7/8" Lap of plating 9 1/4"
 of strength of longitudinal joint 81.4 working pressure of shell by rules 113 lbs size of manholes in shell 16 x 12"
 compensating rings 6 x 29/32 No. of Furnaces in each boiler two Description of Furnaces Plain
 diameter 4.0" length 6.4" thickness of plates 9/16" description of joint welded if rings are fitted -
 length between rings - working pressure of furnace by the rules 123 lbs combustion chamber plating, thickness, sides 1/2" back 1/2" top 1/2"
 stays to ditto, sides 8" back 8" top 8" If stays are fitted with nuts or riveted heads nuts working pressure of plating by
20 lbs Diameter of stays at smallest part .988 area working pressure of ditto by rules 123 lbs end plates in steam space, thickness 14/16
 stays to ditto 15" how stays are secured all nuts working pressure by rules 122 lbs diameter of stays at
 at part 3.003 area working pressure by rules 121 lbs Front plates at bottom, thickness 10/16 Back plates, thickness 10/16
 pitch of stays 14 1/2" working pressure by rules 110 lbs Diameter of tubes 3 1/2" pitch of tubes 4 7/8" thickness of tube
 front 10/16 back 11/16 how stayed stay tubes pitch of stays 9 3/4" width of water spaces 10"
 of Superheater or Steam chest length thickness of plates description of longitudinal joint diam. of rivet holes
 rivets working pressure of shell by rules diameter of flue thickness of plates If stiffened with rings
 between rings working pressure by rules end plates of superheater, or steam chest; thickness how stayed
 Superheater or steam chest; how connected to boiler

1910-1917-0167



DONKEY BOILER— Description *No donkey boiler*

Made at _____ by whom made _____ when made _____ where fixed _____

Working pressure _____ tested by hydraulic pressure to _____ No. of Certificate _____ fire grate area _____ descri-
 valves _____ No. of safety valves _____ area of each _____ if fitted with easing gear _____ if steam from m
 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 plati
 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 r
 Working pressure of furnace by rules _____ diameter of uptake _____ thickness of plates _____ thickness of water tubes _____

SPARE GEAR. State the articles supplied:— *The top end bolts Two bottom end bolts. Two
 main bearing bolts. One set coupling bolts. One set Sea pump &
 One set Bilge pump valves. Safety valve spring.*

The vessel efficient with masts and sails as a Steamer
 The foregoing is a correct description,
 Manufacturer. *J. Arncliffe & Co*

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

*The Machinery and Boiler of this Steam
 Hawker have been constructed under special Survey and
 placed on board in accordance with the Surveyors Rules.
 They are now in my opinion in safe working condition
 and the case is respectfully submitted for the Particulars
 + L.M.C. 6.91. in the Register Book.*

*It is submitted that this vessel
 is eligible to have L.M.C. 6.91
 recorded.*
*W.A.
 23.6.91*

The amount of Entry Fee .. £ 1 : - : - received by me,
 Special £ 8 : - : -
 Donkey Boiler Fee £ - : - : -
 Certificate (if required) .. £ - : - : - *24/6/91*
 To be sent as per margin.
 (Travelling Expenses, if any, £)

Committee's Minute

FRI 26 JUN 1891

+ L.M.C. 6/91

James Lane
 Engineer Surveyor to Lloyd's Register of British & Foreign S
 Lloyd's Register
 Foundation