

REPORT ON MACHINERY.

24720

Port of Korcusta

Received at London Office WED 17 SEPT 1890

No. in Survey held at 24720
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Date, first Survey 22nd March Last Survey 4th Sept 1890
(Number of Visits 18) 2894.6
Tons 1889.01

on the S.S. Radnorshire
Master E. Bagies Built at Korcusta By whom built Swan & Hunter When built 1890
Engines made at Korcusta By whom made Galbraith Shipway & Co when made 1890
Milers made at do By whom made do when made 1890
Registered Horse Power 350 Owners N. J. Jenkins Port belonging to London

ENGINES, &c.—
Description of Engines Triple expansion Surface Condensing
Diameter of Cylinders 23.58 Length of Stroke 39 No. of Rev. per minute 68 Point of Cut off, High Pressure .63 Low Pressure .64
Diameter of Screw shaft 11 1/2 Diam. of Tunnel shaft 10 3/4 Diam. of Crank shaft journals 11 1/2 Diam. of Crank pin 11 1/2 size of Crank webs 8 x 14
Diameter of screw 14.6 Pitch of screw 14.9 No. of blades 4 state whether moveable no total surface 559
No. of Feed pumps 2 diameter of ditto 3 Stroke 24 Can one be overhauled while the other is at work yes
No. of Bilge pumps 2 diameter of ditto 4 Stroke 24 Can one be overhauled while the other is at work yes
Where do they pump from Hot well. Engine Space. Tank. Holds. after well & Sea
No. of Donkey Engines 2 Size of Pumps 6 x 4 x 6 & 6 x 4 1/2 x 6 Where do they pump from Hot well. Engine Space. Tank. Holds. after well & Sea
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 1 and sizes 4 1/2 Are they connected to condenser, or to circulating pump Circulating pump
How are the pumps worked Levers over Condenser
Are all 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
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 new heeled
Is the screw shaft tunnel watertight - and fitted with a sluice door yes worked from Upper platforms

MILERS, &c.—
Number of Boilers 2 Description Cylindrical Single Whether Steel or Iron Steel
Working Pressure 160 Tested by hydraulic pressure to 320 Date of test 5.5.90 No. of Cocks 3223
Description of superheating apparatus or steam chest none
Can each boiler be worked separately yes Can the superheater be shut off and the boiler worked separately -
No. of square feet of fire grate surface in each boiler 54 Description of safety valves Spring No. to each boiler 2
Area of each valve 4.04 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 11 1/2" Diameter of boilers 14.6"
Length of boilers 10.1" description of riveting of shell long. seams B. B. metal circum. seams Lap double Thickness of shell plates 1 3/8"
Diameter of rivet holes 1 1/4" whether punched or drilled Drilled pitch of rivets 8" Lap of plating 18"
Percentage of strength of longitudinal joint 84.375 working pressure of shell by rules 161 size of manholes in shell 16 x 12
Size of compensating rings 8 x 1 3/4" No. of Furnaces in each boiler 3
Outside diameter 3 3/4" length, top 4.3 bottom 4.3 thickness of plates 1 3/8" description of joint Welded if rings are fitted into
Greatest length between rings 9" working pressure of furnace by the rules 164 combustion chamber plating, thickness, sides 5/8 back 5/8 top 5/8
Pitch of stays to ditto, sides 8 1/2" back 8 1/2" top 8 1/2" If stays are fitted with nuts or riveted heads into working pressure of plating by rules 166 Diameter of stays at smallest part 1 1/8" working pressure of ditto by rules 164 end plates in steam space, thickness 1"
Pitch of stays to ditto no span how stays are secured N. nuts & washers working pressure by rules 160 diameter of stays at smallest part 2 3/4 & 2 1/2 working pressure by rules 160 Front plates at bottom, thickness 1 3/8 Back plates, thickness 1 1/8
Greatest pitch of stays 12" working pressure by rules 160 Diameter of tubes 3 1/4" pitch of tubes no span thickness of tube plates, front no span back no span how stayed Lutes pitch of stays no span width of water spaces 6"
Diameter of Superheater or Steam chest none 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 -

Report made 16/9/1900 at London 1890/90

Description of furnaces James Patent

72WC816-0041

DONKEY BOILER— Description *vertical with four crop tubes*
 Made at *Stockton* by whom made *Riley Bros* when made *12.7.90* where fixed *Stockton*
 Working pressure *80 lbs* tested by hydraulic pressure to *160* No. of Certificate *1071* fire grate area *27* description of safety
 valves *Spring* No. of safety valves *2* area of each *11.91* if fitted with easing gear *3.68* if steam from main boilers can
 enter the donkey boiler *no* diameter of donkey boiler *7.0* length *14.0* description of riveting *Lap double*
 Thickness of shell plates *3/16* diameter of rivet holes *13/16* whether punched or drilled *drilled* pitch of rivets *2 1/16* lap of plating *4 1/4*
 per centage of strength of joint *71.7* thickness of crown plates *3/16* stayed by *4 Stay 1 1/2" off diam*
 Diameter of furnace, top *5.5* bottom *6.0 1/4* length of furnace *5.5* thickness of plates *5/8* description of joint *Lap Single*
 Thickness of furnace crown plates *3/16* stayed by *Same as shell crown* working pressure of shell by rule *80.*
 Working pressure of furnace by rules *80 lbs* diameter of uptake *1 1/2* thickness of plates *3/16* thickness of water tubes *3/16*

SPARE GEAR. State the articles supplied:— *Propeller & Shaft. 3" Saut crank shaft*
2 main bearing bolts & nuts. 2 top end bolts & nuts. 2 bottom
end bolts & nuts. 1 set of shaft coupling bolts & nuts. 1 set of
valves. 1 set of tilge valves. piston springs. nuts & bolts & lion.

The foregoing is a correct description,

FOR THE WALLSEND SLIPWAY ENGINEERING CO. L^{td}
L. Rusden Manufacturer.
Manager

General Remarks (State quality of workmanship, opinions as to class, &c.) *The machinery has been*
Specially surveyed during construction the material and
workmanship good and renders the vessel eligible in my
opinion to have the Record + L.M.C. 9.90 in the Register
Book of the Society.

Heating Surface as per rules = *3900 sq*
 h.p. as per rules = *246 h.p.*
 This vessel is fitted with the Electric light on the donkey
 system but will only be used for loading & discharging
 cargoes.

It is submitted that this vessel is
 eligible to have + L.M.C. 9.90 recorded
M.A.

18 9 20

The amount of Entry Fee .. £ *2* : - : - received by me,
 Special .. £ *32* : *6* : -
 Donkey Boiler Fee .. £ - : - : -
 Certificate (if required) .. *gratis* : - : -
 To be sent as per margin.
 (Travelling Expenses, if any, £)

1901
18
14/9/90
18
Richard Howard
 Engineer Surveyor to Lloyd's Register of British & Foreign Shipping.

Committee's Minute **FRI 19 SEPT 1890**
+ L.M.C. 9.90

