

REPORT ON MACHINERY.

28381

2719
 in Survey held at Belfast Date, first Survey 31st May Last Survey 15th Nov. 1880
 Reg. Book. S.S. "Parkmore" Tons 260.58
 on the Crosbie Built at Belfast When built 1880
 Engines made by Mr. Elwaine and Lewis By whom made Belfast when made 1880
 Boilers made by " By whom made Belfast when made 1880
 Registered Horse Power 50 Owners Antim Iron Ore Coy. (Lim) Port belonging to Belfast.

ENGINES, &c.—

Description of Engines Compound, Inverted, Direct-acting
 Diameter of Cylinders 19" x 32" Length of Stroke 27" No. of Rev. per minute 85 Point of Cut off, High Pressure 1/2" Low Pressure 1/2"
 Diameter of Screw shaft 6 7/16" Diameter of Tunnel shaft 6" Diameter of Crank shaft journals 6" Diameter of Crank pin 6" size of Crank webs 6 3/4" x 4 1/4"
 Diameter of screw 8' 6" Pitch of screw 12' 6" No. of blades 4 state whether moveable no total surface 20.6 sq ft
 No. of Feed pumps one diameter of ditto 3" Stroke 12" Can one be overhauled while the other is at work —
 No. of Bilge pumps one diameter of ditto 3" Stroke 12" Can one be overhauled while the other is at work —
 Where do they pump from Engine Room & Stokehold bilges, and the fore & after holds
 of Donkey Engines one Size of Pumps 3" dia x 6" stroke Where do they pump from Engine Room & Stokehold
bilges all holds and 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 one and sizes 5" dia Are they connected to condenser, or to circulating pump Suction pipe
 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 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 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 —
 Are they connected with the machinery accessible at all times yes
 Are they arranged 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 Before launching
 Is the screw shaft tunnel watertight Shipping box fitted and fitted with a sluice door yes worked from top platform

BOILERS, &c.—

Number of Boilers one Description Cylindrical single-ended
 Working Pressure 75 lbs Tested by hydraulic pressure to 150 lbs Date of test 2nd October 1880
 Description of superheating apparatus or steam chest none
 Can each boiler be worked separately — Can the superheater be shut off and the boiler worked separately —
 No. of square feet of fire grate surface in each boiler 33 sq. ft. Description of safety valves direct spring (Rockburn)
 No. to each boiler two area of each valve 8' 3 0" 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 5"
 Diameter of boilers 11' 0" Length of boilers 8-10 description of riveting of shell long. seams double butt circum. seams lap, single
 Thickness of shell plates 3/4" diameter of rivet holes 7/8" whether punched or drilled punched pitch of rivets 3 1/4"
 Thickness of plating 11" per centage of strength of longitudinal joint 70 working pressure of shell by rules 90 lbs
 Size of manholes in shell 12" x 15" size of compensating rings 5" x 1"
 No. of Furnaces in each boiler two outside diameter 2' 10" length, top 6' 0" bottom 8' 6"
 Thickness of plates 7/16" description of joint double butt if rings are fitted Timber greatest length between rings 6' 0"
 Working pressure of furnace by the rules 85 lbs
 Combustion chamber plating, thickness, sides 7/16" back 7/16" top 1/2"
 Pitch of stays to ditto sides 8 1/4" x 8 1/2" back 8 1/2" x 8 1/2" top 9" x 9 1/2"
 If stays are fitted with nuts or riveted heads nuts working pressure of plating by rules 75" x 95 lbs
 Diameter of stays at smallest part 1 1/4" Secured — working pressure of ditto by rules 85 lbs
 End plates in steam space, thickness 1/16" pitch of stays to ditto 15" x 15" how stays are secured nuts & washers
 Working pressure by rules 75 lbs diameter of stays at smallest part 2" working pressure by rules 83 lbs
 End plates at bottom, thickness 7/16" Buck plates, thickness 7/16" greatest pitch of stays 8 1/4" working pressure by rules 15 lbs

283 81 Iron

Diameter of tubes 3" incl pitch of tubes 4 1/4 x 4 1/2 thickness of tube plates, front 7/8 back 7/8
How stayed stay tube pitch of stays 13 1/2 x 12 3/4 width of water spaces 1 1/2 x 1 1/2
Diameter of Superheater or Steam chest — length —
Thickness of plates — description of longitudinal joint — diameter 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 —

DONKEY BOILER— Description Upright, two water tubes.
Made at Belfast By whom made Mr. Shewan & Lewis when made 1880
Where fixed Stockhold working pressure 60 lbs Tested by hydraulic pressure to 150 lbs No. of Certificate 394
Fire grate area 9 sq ft Description of safety valves Direct spring No. of safety valves one area of each 70
If fitted with easing gear no If steam from main boilers can enter the donkey boiler no
Diameter of donkey boiler 4'0" length 8'0" description of riveting Lap, single.
thickness of shell plates 3/8" diameter of rivet holes 1 3/16" whether punched or drilled punched
pitch of rivets 2" lap of plating 2 1/2" per centage of strength of joint 59
thickness of crown plates 7/16" stayed by uptake & diaphragms
Diameter of furnace, top 3'2" bottom 3'5" length of furnace 4'3"
thickness of plates 3/8" description of joint Lap, single.
thickness of furnace crown plates 7/16" stayed by uptake & diaphragms
Working pressure of shell by rules 72 lbs working pressure of furnace by rules 72 lbs
diameter of uptake 13" outside thickness of plates 3/8" thickness of water tubes 7/8

The foregoing is a correct description,
Mac Shewan & Lewis Manufacturer.

General Remarks (State quality of workmanship, opinions as to class, &c. The Engines and Boilers in good order and safe working condition in my opinion to be noted in the Register Book.

It is submitted that this vessel is eligible to have the notification of Lloyd's Register recorded in the Register Book
Borth 22/11/80

The amount of Entry Fee .. £ 2 : 0 : 0 received by me,
Special .. £ 7 : 10 : 0 19/11/80
Certificate (if required) .. £ 18
To be sent as per margin
(Travelling Expenses, if any, £ 6 : 6 : 0)

Committee's Minute
Friday, November 22nd 1880.
+ Lloyd's Register

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

