

# REPORT ON MACHINERY.

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(Received in London Office) 18

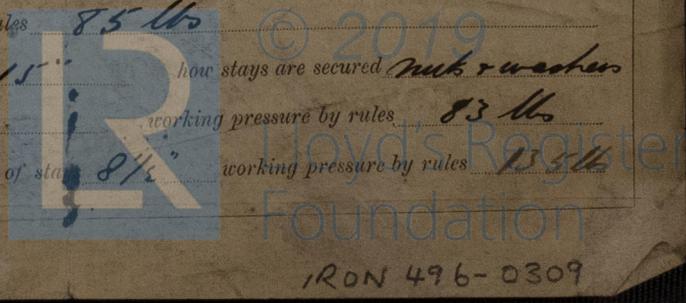
2419  
 in Survey held at Belfast Date, first Survey 31<sup>st</sup> May Last Survey 15<sup>th</sup> Nov. 1880  
 Reg. Book. S.S. "Parkmore" Tons 260.58  
 on the S.S. "Parkmore" Tons 144.05  
 Master Crosbie Built at Belfast When built 1880  
 Engines made by Mr. Swaine and Lewis By whom made Belfast when made 1880  
 Boilers made by " " By whom made Belfast when made 1880  
 Registered Horse Power 50 Owners Antum 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 3/4"  
 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  
 No. 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 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 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 2<sup>nd</sup> 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 (Cochburn)  
 No. to each boiler two area of each valve 8.30" 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 woodwork 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" percentage 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 1/2" 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 9/16" Back plates, thickness 9/16" greatest pitch of stays 8 1/2" working pressure by rules 15 lbs



283 81 Iron

Diameter of tubes 3" end pitch of tubes 4 1/4 x 4 1/2 thickness of tube plates, front 3/8" 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. Stewart & Lewis when made 1880  
 Where fixed Stokehold 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, angle  
 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 & dished  
 Diameter of furnace, top 3'2" bottom 3'5" length of furnace 4'3"  
 thickness of plates 3/8" description of joint lap, angle  
 thickness of furnace crown plates 7/16" stayed by uptake & dished  
 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 3/8"

The foregoing is a correct description,  
*MacAlwan Lewis* Manufacturer.

**General Remarks** (State quality of workmanship, opinions as to class, &c. The Engines and Boilers are 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 certificate of Lloyd's Register of Shipping recorded in the Register Book. J.M. 22/11/80*

The amount of Entry Fee .. £ 2 : 0 : 0 received by me,  
 Special .. £ 7 : 10 : 0 19/11/80 } *J.M.*  
 Certificate (if required) .. £ *fees* 18  
 To be sent as per margin

(Travelling Expenses, if any, £ 6 6 0)  
 Committee's Minute Friday, November 2nd, 1880.  
*Stewart & Lewis*

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



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