

Continuation of REPORT ON MACHINERY.

Port of Barrow in Furness

No. in Survey held at Barrow Date, first Survey Last Survey 18

Reg. Book. on the Steel screw steamer Blan Mackay

Master Built at By whom built When built

Engines made at Donkey By whom made when made Boilers made at Barrow By whom made Naval Constr & Armaments Co Ltd when made 1894

Registered Horse Power Owners Port belonging to Nom. Horse Power as per Section 28

Table with columns: ENGINES, &c.—, Description of Engines, No. of Cylinders, Diameter of Cylinders, Length of Stroke, Revolutions per minute, Diameter of Screw shaft, Diameter of Tunnel shaft, Diameter of Crank shaft journals, Diameter of Crank pin, Size of Crank webs, Diameter of screw, Pitch of screw, No. of blades, State whether moveable, Total surface, No. of Feed pumps, Diameter of ditto, Stroke, Can one be overhauled while the other is at work, No. of Bilge pumps, Diameter of ditto, Stroke, Can one be overhauled while the other is at work, No. of Donkey Engines, Sizes of Pumps, No. and size of Suctions connected to both Bilge and Donkey pumps, In Engine Room, In Holds, &c.

Table with columns: BOILERS, &c.—, (Letter for record S), Total Heating Surface of Boilers 730.19, No. and Description of Boilers One single ended multitubular Working Pressure 100 lbs Tested by hydraulic pressure to 200, Date of test 21-8-94 Can each boiler be worked separately, Area of fire grate in each boiler 31.167, No. and Description of safety valves to each boiler Two spring loaded Area of each valve 4.9 Pressure to which they are adjusted 100 lbs Are they fitted with easing gear yes, Smallest distance between boilers or uptakes and bunkers or woodwork 12 Mean diameter of boiler 9.6, Length 9.0 Material of shell plates Steel Thickness 5/8 Description of riveting: circum. seams double long. seams lap triple, double, Diameter of rivet holes in long. seams 27/32 Pitch of rivets 37/8 x 15/16 Lap of plates or width of butt straps 6 1/2, Per centages of strength of longitudinal joint rivets 78.3 plate 78.2 Working pressure of shell by rules 101.5 Size of manhole in shell 16 x 12, Size of compensating ring 2-8 x 2-4 No. and Description of Furnaces in each boiler Two plain Material Steel Outside diameter 2-11, Length of plain part top 6-6 bottom Thickness of plates crown 17/32 Description of longitudinal joint Buttraps No. of strengthening rings, Working pressure of furnace by the rules 111 Combustion chamber plates: Material Steel Thickness: Sides 1/2 Back 1/2 Top 1/2 Bottom 17/32, Pitch of stays to ditto: Sides 8 3/4 Back 8 3/4 Top 8 3/4 If stays are fitted with nuts or riveted heads Butts Working pressure by rules 112, Material of stays Steel Diameter at smallest part 5/32 Area supported by each stay 76.5 Working pressure by rules 165.8 End plates in steam space: Material Steel Thickness 3/16 Pitch of stays 14 1/2 How are stays secured Butts Working pressure by rules 149 Material of stays Steel, Diameter at smallest part 7/8 Area supported by each stay 210 Working pressure by rules 117 Material of Front plates at bottom Steel Thickness 3/4 Material of Lower back plate Steel Thickness 1/6 Greatest pitch of stays 13 1/2 Working pressure of plate by rules, Diameter of tubes 3 Pitch of tubes 4 1/4 x 4 1/4 Material of tube plates Steel Thickness: Front 3/4 Back 1/6 Mean pitch of stays 11 3/4, Pitch across wide water spaces 14 1/2 Working pressures by rules 102.7 Girders to Chamber tops: Material Steel Depth and thickness of girder at centre 6 x (2 x 2) Length as per rule 24 1/2 Distance apart 8 3/4 Number and pitch of Stays in each Two 8 3/4, Working pressure by rules 105.6 Superheater or Steam chest; how connected to boiler Can the superheater be shut off and the boiler worked separately, Diameter Length Thickness of shell plates Material Description of longitudinal joint Diam. of rivet holes Pitch of rivets Working pressure of shell by rules Diameter of flue Material of flue plates Thickness, If stiffened with rings Distance between rings Working pressure by rules End plates: Thickness How stayed, Working pressure of end plates Area of safety valves to superheater Are they fitted with easing gear

Gas castings Lloyd's Register Foundation BRW44-0029

Report also sent to the Hull of the Ship

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 _____ Pressure to which they are adjusted _____ If fitted with easing gear _____ If seam from main boilers can enter the donkey boiler _____ Diameter of donkey boiler _____ Length _____ Material of shell plates _____ Thickness _____
 Description of riveting long. seams _____ Diameter of rivet holes _____ Whether punched or drilled _____ Pitch of rivets _____
 Lap of plating _____ Per centage of strength of joint _____ Rivets _____ Thickness of shell crown plates _____ Radius of do. _____ N. of Stays to do. _____
 Dia. of stays. _____ Diameter of furnace Top _____ Bottom _____ Length of furnace _____ Thickness of furnace 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 uptake plates _____ Thickness of water ribs _____

SPARE GEAR. State the articles supplied :—

The foregoing is a correct description,
 Manufacturer.

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

Certificate (if required) to be sent to _____

The amount of Entry Fee..	£	:	:	When applied for,
Special	£	:	:	
Donkey Boiler Fee	£	:	:	When received,
Travelling Expenses (if any) £	:	:	:	

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

Committee's Minute

FRIDAY 7 DEC 1894

TUES. 18 DEC 1894

Assigned



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(The Surveyors are required to put their initials on or below the name for Committee's Minute.)