

Continuation of
REPORT ON MACHINERY.

No. 631

Port of Barrow in Furness

No. in Survey held at Barrow
Reg. Book.

Date, first Survey

Last Survey

18

on the Steel Screw Steamer Blan Mackay

(Number of Visits)

Tons } Gross
 } Net

Master

Built at

By whom built

When built

Engines made at

By whom made

when made

Boilers made at Barrow

By whom made Naval Construction & Armaments Co. Ltd. when made 1894

Registered Horse Power

Owners

Port belonging to

Nom. Horse Power as per Section 28

ENGINES, &c.—

Description of Engines

No. of Cylinders

Diameter of Cylinders Length of Stroke Revolutions per minute Diameter of Screw shaft as per rule as fitted
Diameter of Tunnel shaft as per rule as fitted 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.
No. of bilge injections sizes Connected to condenser, or to circulating pump Is a separate donkey suction fitted in Engine room & size
Are all the bilge suction pipes fitted with roses Are the roses in Engine room always accessible Are the sluices on Engine room bulkheads always accessible
Are all connections with the sea direct on the skin of the ship Are they Valves or Cocks
Are they fixed sufficiently high on the ship's side to be seen without lifting the stokehold plates Are the discharge pipes above or below the deep water line
Are they each fitted with a discharge valve always accessible on the plating of the vessel Are the blow off cocks fitted with a spigot and brass covering plate
What pipes are carried through the bunkers How are they protected
Are all pipes, cocks, valves, and pumps in connection with the machinery and all boiler mountings accessible at all times
Are the bilge suction pipes, cocks, and valves arranged so as to prevent any communication between the sea and the bilges
When were stern tube, propeller, screw shaft, and all connections examined in dry dock Is the screw shaft tunnel watertight
Is it fitted with a watertight door worked from

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 3' 11" 6" 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 with double
Diameter of rivet holes in long. seams 27/32" Pitch of rivets 3 3/8" x 1 5/16" Lap of plates or width of butt straps 6 7/8"
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 6'-6" Thickness of plates crown 7/32" bottom 7/32" Description of longitudinal joint Butt straps 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 7/32"
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 7/16" 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 7/8" 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" (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 Easthope

BRW44-0029

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 steam 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. No. 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	£	:	:18.....
Donkey Boiler Fee	£	:	:	When received,
Travelling Expenses (if any) £	:	:	:18.....

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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Foundation