

REPORT ON MACHINERY.

Port of Barrow in Furness

WED. MAY 6 1896

No. in Survey held at Barrow Date, first Survey Sept 10th 1895 Last Survey April 29th 1896
 Reg. Book. Steel Screw Steamer "Clan Lindsay" (Number of Visits 83)
 on the Steel Screw Steamer "Clan Lindsay" Ton. { Gross 2668.4
 Net 1704.57
 Master Schofield Built at Barrow By whom built Royal Gun & Armaments Co. Ltd. When built 1896
 Engines made at Barrow By whom made Royal Gun & Armaments Co. Ltd. when made 1896
 Boilers made at Do By whom made Do when made 1896
 Registered Horse Power 300 Owners Baynes & Irvine Co. Port belonging to Glasgow
 Nom. Horse Power as per Section 28 317

ENGINES, &c.— Description of Engine Triple Expansion (Three Cranks) No. of Cylinders Three
 Diameter of Cylinders 23" 38" 63" Length of Stroke 42" Revolutions per minute 119 Diameter of Screw shaft as per rule 11.9
 Diameter of Tunnel shaft as fitted 12.0 Diameter of Crank shaft journals 12.5 Diameter of Crank pin 13 Size of Crank webs 8x25
 Diameter of screw 15.6 Pitch of screw 17.6 No. of blades 4 State whether moveable yes Total surface 640
 No. of Feed pumps 2 Diameter of ditto 7x9 Stroke 18 Can one be overhauled while the other is at work yes
 No. of Bilge pumps 2 Diameter of ditto 4 Stroke 22 Can one be overhauled while the other is at work yes
 No. of Donkey Engines Two Sizes of Pumps 9x8x10 9x4x6 1/2 Duplex No. and size of Suctions connected to both Bilge and Donkey pumps
 In Engine Room Two 3" One 3 1/2" 2-3 1/2" Stokhold In Holds, &c. Two 3" Two 3" Two 3"
No 3 Two 3" After hold one 3 1/2" Tunnel well one 3 1/2"
 No. of bilge injections one sizes 7" Connected to condenser, or to circulating pump Yes Is a separate donkey suction fitted in Engine room & size yes 3 1/2"
 Are all the bilge suction pipes fitted with roses yes Are the roses in Engine room always accessible yes Are the sluices on Engine room bulkheads always accessible yes
 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 and all boiler mountings accessible at all times yes
 Are the bilge suction pipes, cocks, and valves arranged so as to prevent any communication between the sea and the bilges yes
 When were stern tube, propeller, screw shaft, and all connections examined in dry dock Before launch Is the screw shaft tunnel watertight yes
 Is it fitted with a watertight door yes worked from Upper Deck

BOILERS, &c.— (Letter for record S) Total Heating Surface of Boilers 4140.27
 No. and Description of Boilers Two Single Ended Working Pressure 200 lb Tested by hydraulic pressure to 400
 Date of test 31-1-96 Can each boiler be worked separately yes Area of fire grate in each boiler 47.34 No. and Description of safety valves to
 each boiler Two Spring Loaded Cocks Area of each valve 8.29 Pressure to which they are adjusted 200 lb Are they fitted
 with easing gear yes Smallest distance between boilers or uptakes and bunkers or woodwork 12" Mean diameter of boilers 13.6
 Length 11.9 Material of shell plates Steel Thickness 1 3/8 Description of riveting: circum. seams lap butt double long. seams
 Diameter of rivet holes in long. seams 1 1/2 Pitch of rivets 9 1/2 Lap of plates or width of butt straps 20 7/8
 Per centages of strength of longitudinal joint 86.5 Working pressure of shell by rules 209 Size of manhole in shell 15x9 1/2
 Size of compensating ring 27x36x1 1/2 No. and Description of Furnaces in each boiler 3 (Barrow) Material Steel Outside diameter 3.3
 Length of plain part 9" Thickness of plates 9 1/8 Description of longitudinal joint welded No. of strengthening rings —
 Working pressure of furnace by the rules 208 Combustion chamber plates: Material Steel Thickness: Sides 5/8 Back 5/8 Top 5/8 Bottom 1"
 Pitch of stays to ditto: Sides 8x7 1/2 Back 8x7 1/2 Top 7 1/2x7 1/2 If stays are fitted with nuts or riveted heads Nuts Working pressure by rules 210
 Material of stays Steel Diameter at smallest part 1.504 Area supported by each stay 58 Working pressure by rules 207 End plates in steam space:
 Material Steel Thickness 1 1/8 Pitch of stays 5x15 How are stays secured Nuts Working pressure by rules 235.4 Material of stays Steel
 Diameter at smallest part 2 1/2 Area supported by each stay 206.45 Working pressure by rules 211 Material of Front plates at bottom Steel
 Thickness 1 1/2 Material of Lower back plate Steel Thickness 7/8 Greatest pitch of stays 15 Working pressure of plate by rules —
 Diameter of tubes 2 1/2 Pitch of tubes 3 3/4 x 3 5/8 Material of tube plates Steel Thickness: Front 1 1/8 Back 1 1/8 Mean pitch of stays 9 1/2
 Pitch across wide water spaces 14" Working pressures by rules 206.5 Girders to Chamber tops: Material Steel Depth and
 thickness of girder at centre 8x14x2 Length as per rule 28.5 Distance apart 7 1/2 Number and pitch of Stays in each 3-7 1/2
 Working pressure by rules 229 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 —

DONKEY BOILER—

Description

For Particulars of Donkey Boiler see separate Report

Made at

By whom made

When made

Where fixed

Under Bridge

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
Plates

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 tubes

SPARE GEAR. State the articles supplied.

In addition to the articles required by Rules

1 set Brasses for connecting rod of circulating pump engine, 12 Junk
Ring bolts, 2 Propeller blades, 1 set Rings for N & S P.C. cylinder, 2 donkey
feed valves and a number of other articles

The foregoing is a correct description,

for NAVAL CONSTRUCTION & ARMAMENTS Co., Ltd.

Manufacturer.

General Remarks

(State quality of workmanship, opinions as to class, &c. 1895 Sept 10, 11, 12, 13, 18, 21, 23, 24, 25, 26, 27, 30 Oct

Dates of
Survey while
building

During progress of

work in shops -

During erection on

board vessel -

Total No. of visits

Oct 1, 3, 4, 7, 9, 10, 12, 14, 15, 16, 17, 18, 19, 21, 22, 23, 24, 25, 26, 27, 30, 31, Nov 1, 2, 4, 6, 7, 8, 11, 13, 14, 15, 18, 19
22, 25, 26, 27, 29, Dec 2, 3, 4, 6, 9, 11, 1896 Jan 29, 31, Feb 3, 6, 11, 14, 17, 19, 21, 25, 28, Mar
2, 5, 9, 11, 16, 20, 23, 30, April 13, 14, 17, 20, 21, 24, 27, 28, 29,
23

The machinery and Boilers of this Vessel have
been constructed under special survey in accordance with the
Rules, the material and workmanship employed are of
the best description, and when fitted into the vessel the
machinery was tried and worked satisfactorily

This Vessel is fitted with Howden's System
of forced draught.

This is a sister Vessel to the SS "Blan Kenzie"
Barrow Report No 706.

The machinery of this Vessel is in good order
and safe working condition eligible in my opinion
to have the notation **TLMC 4-96** in the Register Book

It is submitted that
this vessel is eligible for
THE RECORD

TLMC 4-96 F.D.

Certificate (if required) to be sent to

6.5.96

6.5.96

The amount of Entry Fee..

£ 3 : 0 :

When applied for,

Special

£ 35 : 17 :

1st May 1896

Donkey Boiler Fee

£

When received,

Travelling Expenses (if any) £

:

5th May 1896

Committee's Minute

FRI. MAY 8 1896

Assigned

+ LMC 4-96

F.D.

MANUFACTURER'S
CERTIFICATE
WRITTEN



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Foundation