

Continuation of
REPORT ON MACHINERY.

No. 719

Port of Barrow in Furness

WED. MAY 6 1896

Received at London Office

No. in Survey held at Barrow

Date, first Survey

Last Survey

18

Reg. Book.

on the Steel Screw Steamer "Blanch Lindsay"

(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

1891

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

Diameter of Tunnel shaft

as per rule

Diameter of Crank shaft journals

Diameter of Crank pin

Size of Crank webs

as fitted

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)

Total Heating Surface of Boilers

No. and Description of Boilers

Donkey One Multitubular

Working Pressure

100

Tested by hydraulic pressure to

200

Date of test 31-1-96 Can each boiler be worked separately

Area of fire grate in each boiler

31-16

No. and Description of safety valves to

each boiler

Two Spring Loaded

Area of each valve

409

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 boilers

2-6

Length

9-0

Material of shell plates

Steel

Thickness

5/8

Description of riveting: circum. seams

Double

long seams

Cap & Triple

Diameter of rivet holes in long. seams

27/32

Pitch of rivets

27/8

1 5/16

Lap of plates

on width of butt straps

6 3/4

Percentage of strength of longitudinal joint

76.2

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

6-6

Thickness of plates

5/8

Description of longitudinal joint

Double

No. of strengthening rings

1

Working pressure of furnace by the rules

111

Combustion chamber plates: Material

Steel

Thickness: Sides

5"

Back

5"

Top

5"

Bottom

7/8"

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

Quits

Working pressure by rules

112

Material of stays

Steel

Diameter at smallest part

1 5/32

Area supported by each stay

76.5

Working pressure by rules

105.8

End plates in steam space:

Material

Steel

Thickness

1 3/16"

Pitch of stays

14 1/2"

How are stays secured

10 Ruts

Working pressure by rules

149

Material of stays

Steel

Diameter at smallest part

1 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

7/8"

Greatest pitch of stays

13 1/2"

Working pressure of plate by rules

Diameter of tubes

3"

Pitch of tubes

4 1/2" x 4 1/2"

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 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

✓</

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 _____
 Dia. of stays _____ Diameter of furnace Top _____ Bottom _____ Length of furnace _____ Thickness of furnace plates _____ Description
 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:—

The foregoing is a correct description,
 for **NAVAL CONSTRUCTION & ARMAMENTS Co., Ltd.** Manufacturer.

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

Dates of Survey while building
 During progress of work in shops
 During erection on board vessel
 Total No. of visits

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

FRI, MAY 8 1896

Assigned



© 2020

Lloyd's Register
Foundation