

REPORT ON MACHINERY.

Port of *Glasgow*Received at London Office *MUN 10 JUL 1899*No. in Survey held at *Glasgow*
eg. Book.Date, first Survey *25 Octr '98* Last Survey *14 June 1899*(Number of Visits *8*)on the *S.S. Auchinard*Tons { Gross *3618.58*
Net *2330.63*Master *J. Peat*Built at *Port Glasgow* By whom built *Russell & Co*When built *1899*Engines made at *Glenhead*By whom made *Pantlin & Blackmore*when made *1899*Boilers made at *do*By whom made *do*when made *1899*Registered Horse Power *300*Owners *Auchan Steamship Co (Limd)*Port belonging to *Glasgow*Horse Power as per Section 28 *300*Is Electric Light fitted *no*

ENGINES, &c.—Description of Engines

No. of Cylinders

No. of Cranks

Diameter of Cylinders

Length of Stroke

Revolutions per minute

Diameter of Screw shaft
as per rule
as fittedDiameter 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

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

Are all pipes 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

*662 sq ft*Is forced draft fitted *no*

No. and Description of Boilers

one return tube cylindrical

Working Pressure

*80 lbs*Tested by hydraulic pressure to *160*Date of test *14/6/99*Can each boiler be worked separately *no*Area of fire grate in each boiler *26 sq ft*

No. and Description of safety valves to

No. of boiler

*two direct spring*Area of each valve *5.94 sq in*Pressure to which they are adjusted *80 lbs*

Are they fitted

Easing gear

yes

Length

8 ft

Diameter of rivet holes in long. seams

1/16 in

Percentages of strength of longitudinal joint

76.9

Working pressure of shell by rules

*81 lbs*Size of manhole in shell *16" x 12"*

No. of compensating ring

28 x 29 1/2 x 3/8

Length of plain part

35.5 in

Working pressure of furnace by the rules

88 lbs

Thickness of stays to ditto: Sides

8 1/2 x 10

Material of stays

steel

Thickness

5/8

Pitch of stays

14 x 14 1/2

How are stays secured

2 nuts

Working pressure by rules

83

Material of stays

steel

Area supported by each stay

182

Working pressure by rules

111

Material of Front plates at bottom

steel

Thickness

9/16

Greatest pitch of stays

13 in

Working pressure of plate by rules

86

Diameter of tubes

3 1/2

Pitch of tubes

4 1/2 x 4 1/2

Material of tube plates

steel

Thickness: Front

5/8

Back

7/8

Mean pitch of stays

13 in

Working pressures by rules

86

Girders to Chamber tops: Material

steel

Depth and

6 x 5/8

Length as per rule

1.11 in

Distance apart

12 in

Number and pitch of Stays in each

one 10 in

Working pressure by rules

84

Superheater or Steam chest; how connected to boiler

none

Can the superheater be shut off and the boiler worked

no

Diameter

12 in

Length

12 in

Thickness of shell plates

5/8

Material

steel

Description of longitudinal joint

butt

Diam. of rivet

1/2 in

Pitch of rivets

1 in

Working pressure of shell by rules

84

Diameter of flue

12 in

Material of flue plates

steel

Thickness

5/8

End plates: Thickness

5/8

How stayed

none

Working pressure of end plates

84

Area of safety valves to superheater

none

Are they fitted with easing gear

no

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 tubes _____

SPARE GEAR. State the articles supplied:—

The foregoing is a correct description,
Friday Purcell & Co Manufacturers

Dates of Survey while building { During progress of work in shops - 1898: - Oct. 25 Nov. 4. 11. 28. Dec. 5. 9.
 { During erection on board vessel - 1899: - June 9. 14.
 Total No. of visits 8

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

ENGINES—Length of stern bush _____ Diameter of crank shaft journals ^{as per rule} _____ ^{as fitted} _____ Diameter of thrust shaft under collars _____

BOILERS—Range of tensile strength _____ Are they welded or flanged _____ **DONKEY BOILERS**—No. *one* Range of tensile strength *28-3*

Is the approved plan of main boiler forwarded herewith _____

Is the approved plan of donkey boiler forwarded herewith *yes*

This boiler has been constructed under special survey the materials & workmanship are of good description & it has been forwarded to Brunswick & Co. fitted on board

See Greenwich Report No 12419

Certificate (if required) to be sent to

(The Surveyors are requested not to write on or below the space for Committee's Minute.)

The amount of Entry Fee.. £ : : When applied for, 3/7/1899
 Special .. £ : :
 Donkey Boiler Fee .. £ 2 : 2 : When received, 6/7/1899
 Travelling Expenses (if any) £ : :

Committee's Minute

Assigned

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



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