

REPORT ON MACHINERY.

No. 12684

Port of

Glasgow

THURS, 25 JAN 1894

No. in Survey held at
Reg. Book.

Glasgow

Date, first Survey 20th Nov 1893 Last Survey 14th Jan 1894

Received at London Office

(Number of Visits 12)

Tons Gross 90
Net 43

Master John Thompson Built at Govan

By whom built Mackie & Thomson

When built 1894

Engines made at Glasgow

By whom made Muir & Houston

when made 1894

Boilers made at

By whom made

when made 1894

Registered Horse Power 17

Owners Andrew Weir & Co.

Port belonging to Glasgow

Nom. Horse Power as per Section 28 17

ENGINES, &c.—

Description of Engines

Compound inverted directacting

No. of Cylinders

Two

Diameter of Cylinders 10" 20" Length of Stroke 14" Revolutions per minute Diameter of Screw shaft as per rule 3.7
Diameter of Tunnel shaft as fitted 4 Diameter of Crank shaft journals 4 Diameter of Crank pin 4 Size of Crank webs 5 x 2 1/2
Diameter of screw 5' 0" Pitch of screw 7' 0" No. of blades 3 State whether moveable fixed Total surface 7 1/2
No. of Feed pumps one Diameter of ditto 1 1/2 Stroke 7 Can one be overhauled while the other is at work
No. of Bilge pumps one Diameter of ditto 1 1/2 Stroke 7 Can one be overhauled while the other is at work
No. of Donkey Engines one double acting Sizes of Pumps 5 x 2 1/2 x 5 No. and size of Suctions connected to both Bilge and Donkey pumps
In Engine Room two 2" (Engine room aft) In Holds, &c. 2"

No. of bilge injections one sizes 2" Connected to condenser, or to circulating pump Cor. P. Is a separate donkey suction fitted in Engine room & size 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 none
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 launching Is the screw shaft tunnel watertight none
Is it fitted with a watertight door worked from

BOILERS, &c.—

(Letter for record S)

Total Heating Surface of Boilers 318

No. and Description of Boilers one cylindrical ret. tubular Working Pressure 100 Tested by hydraulic pressure to 200
Date of test 21.12.93 Can each boiler be worked separately Area of fire grate in each boiler 12.3 No. and Description of safety valves to each boiler two spring Area of each valve 3.14 Pressure to which they are adjusted 100 Are they fitted with easing gear yes Smallest distance between boilers or uptakes and bunkers or woodwork 9" Mean diameter of boilers 93
Length 7' 0" Material of shell plates steel Thickness 9/16 Description of riveting: circum. seams lap single rivet long. seams lap 3 rivets
Diameter of rivet holes in long. seams 1 1/16 Pitch of rivets 4 1/2 Lap of plates or width of butt straps 8 1/4
Per centages of strength of longitudinal joint rivets 89.5 Working pressure of shell by rules 107 Size of manhole in shell 12 x 16
Size of compensating ring MacNeill No. and Description of Furnaces in each boiler one plain Material steel Outside diameter 38
Length of plain part top 34 1/2 Thickness of plates crown 3/2 Description of longitudinal joint weld No. of strengthening rings none
Working pressure of furnace by the rules 131.105 Combustion chamber plates: Material steel Thickness: Sides 1/2 Back 1/2 Top 1/2 Bottom 5/8
Pitch of stays to ditto: Sides 8 1/2 Back 8 1/2 Top 7 1/2 If stays are fitted with nuts or riveted heads yes Working pressure by rules 106
Material of stays steel Area at smallest part 1.45 Area supported by each stay 72 Working pressure by rules 160 End plates in steam space:
Material steel Thickness 3/4 Pitch of stays 15" How are stays secured D. nuts & washers Working pressure by rules 118 Material of stays steel
Area at smallest part 3.49 Area supported by each stay 225 Working pressure by rules 140 Material of Front plates at bottom steel
Thickness 3/4 Material of Lower back plate steel Thickness 3/4 Greatest pitch of stays 8 1/2 Working pressure of plate by rules ample
Diameter of tubes 3/4 Pitch of tubes steel Material of tube plates 3/4 Thickness: Front 3/4 Back 5/8 Mean pitch of stays 8 1/2
Pitch across wide water spaces 13 1/2 (diagonally 10") Working pressures by rules 140, 200 Girders to Chamber tops: Material iron Depth and thickness of girder at centre 5 x 2 x 7/8 Length as per rule 19" Distance apart 7 1/2 Number and pitch of Stays in each one (9 1/2)
Working pressure by rules 124 Superheater or Steam chest; how connected to boiler none 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

GLS169-0095

DONKEY BOILER—

Description

None

12687 lbs

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
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:—

As required by the Rules

The foregoing is a correct description,

Manufacturer.

Muir & Hountr

General Remarks

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

These engines & boiler have been constructed under the conditions of Special Survey and have been securely fitted on board and satisfactorily tested under steam. The material and workmanship are good and in my opinion the vessel is eligible for the record LMC.

It is submitted that
this vessel is eligible for
THE RECORD + LMC-1-94

N.A.
25-1-94

Certificate (if required) to be sent to

Glasgow

The amount of Entry Fee..

£

1 : " : "

When applied for,

Special

£

8 : " : "

19/1/94

Donkey Boiler Fee

£

" : " : "

When received,

Travelling Expenses (if any) £

£

" : " : "

20/1/94

C. J. L. Brown
Engineer Surveyor to Lloyd's Register of British & Foreign Shipping.

Committee's Minute

FRI 28 JAN 1894

Assigned

+ LMC-1-94



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Foundation