

REPORT ON MACHINERY.

No. *4435*

No. in Survey held at
Reg. Book.

Glasgow

Date, first Survey

and

Last Survey

MONDAY 10 MAY 1886

27th April 1886

on the

Donkey Boiler of the Ship Marion Inglis

Tons *1548*

Master

Built at

Dumbarton

By whom built

A. McMillan & Son

When built

1886

Engines made at

By whom made

when made

Boilers made at

By whom made

when made

Registered Horse Power

Owners

Port belonging to

ENGINES, &c.—

Description of Engines

Diameter of Cylinders

Length of Stroke

No. of Rev. per minute

Point of Cut off, High Pressure

Low Pressure

Diameter of Screw shaft

Diam. of Tunnel shaft

Diam. of Crank shaft journals

Diam. 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

Where do they pump from

No. of Donkey Engines

Size of Pumps

Where do they pump from

Are all the bilge suction pipes fitted with roses

Are the roses always accessible

Are the sluices on Engine room bulkheads always accessible

No. of bilge injections

and sizes

Are they connected to condenser, or to circulating pump

How are the pumps worked

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 accessible at all times

Are the pipes, cocks, and valves arranged so as to prevent an unintentional connection 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

and fitted with a sluice door

worked from

BOILERS, &c.—

Number of Boilers

Description

Whether Steel or Iron

Working Pressure

Tested by hydraulic pressure to

Date of test

Description of superheating apparatus or steam chest

Can each boiler be worked separately

Can the superheater be shut off and the boiler worked separately

No. of square feet of fire grate surface in each boiler

Description of safety valves

No. to each boiler

Area of each valve

Are they fitted with easing gear

No. of safety valves to superheater

area of each valve

Are they fitted with easing gear

Smallest distance between boilers and bunkers or woodwork

Diameter of boilers

Length of boilers

description of riveting of shell long. seams

circum. seams

Thickness of shell plates

Diameter of rivet holes

whether punched or drilled

pitch of rivets

Lap of plating

Per centage of strength of longitudinal joint

working pressure of shell by rules

size of manholes in shell

Size of compensating rings

No. of Furnaces in each boiler

Outside diameter

length, top

bottom

thickness of plates

description of joint

if rings are fitted

Greatest length between rings

working pressure of furnace by the rules

combustion chamber plating, thickness, sides

back top

Pitch of stays to ditto, sides

back

top

If stays are fitted with nuts or riveted heads

working pressure of plating by

rules

Diameter of stays at smallest part

working pressure of ditto by rules

end plates in steam space, thickness

Pitch of stays to ditto

how stays are secured

working pressure by rules

diameter of stays at

smallest part

working pressure by rules

Front plates at bottom, thickness

Back plates, thickness

Greatest pitch of stays

working pressure by rules

Diameter of tubes

pitch of tubes

thickness of tube

plates, front

back

how stayed

pitch of stays

width of water spaces

Diameter of Superheater or Steam chest

length

thickness of plates

description of longitudinal joint

diam. of rivet holes

Pitch of rivets

working pressure of shell by rules

diameter of flue

thickness of plates

If stiffened with rings

Distance between rings

working pressure by rules

end plates of superheater, or steam chest; thickness

how stayed

Superheater or steam chest; how connected to boiler

Barque "Marion Inglis" 74 35 GNS

DONKEY BOILER—

Description

Cylindrical Vertical 3 Horizontal Water Tubes

Made at Stockton

by whom made

Riley Bros

when made

4.1.86

where fixed

on Deck

Working pressure

60 lbs

tested by hydraulic pressure to

120 lbs

No. of Certificate

1318

fire grate area

10 feet

description of safety

valves

Direct Spring

No. of safety valves

one

area of each

4"

if fitted with easing gear

Yes

if steam from main boilers can

enter the donkey boiler

diameter of donkey boiler

4' 0"

length

10' 0"

description of riveting

single riveted lap

Thickness of shell plates

5/16"

diameter of rivet holes

11/16"

whether punched or drilled

punched

pitch of rivets

1 3/4"

lap of plating

2 1/4"

per centage of strength of joint

63

thickness of crown plates

3/8

stayed by

4 Vertical stays 1 1/2" dia & uptake

description of joint

single riv lap

Diameter of furnace, top

3' 4"

bottom

3' 5 3/8"

length of furnace

4' 1"

thickness of plates

3/8"

description of joint

single riv lap

Thickness of furnace crown plates

3/8"

stayed by

4 Vertical stays 1 1/2" dia & uptake

working pressure of shell by rules

81 lbs

thickness of water tubes

5/16"

Working pressure of furnace by rules

43 lbs

diameter of uptake

9 3/4"

thickness of plates

3/8"

thickness of water tubes

5/16"

thickness of water tubes

5/16"

SPARE GEAR. State the articles supplied:—

Above particulars received from Mr. J. E

Stoddart under whose survey the boiler has been made. It is now

fitted on board the ship, has been tried under steam & the safety valve

set to the working pressure of 60 lbs, and found to be in good working

The foregoing is a correct description,

Condition.

Manufacturer.

James Morrison
Glasgow District

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

It is submitted that this vessel is eligible to remain as classed

Q 10/5/86

The amount of Entry Fee .. £ : : received by me, }
Special .. £ : :
Donkey Boiler Fee .. £ : :
Certificate (if required) .. £ : : 18
To be sent as per margin.

(Travelling Expenses, if any, £)

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

Committee's Minute

TUESDAY 11 MAY 1886



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Foundation