

REPORT ON MACHINERY.

Port of Glasgow Received at London Office THUR 4 JUL 1895

No. in Survey held at Supplementary Report Last Survey 18
 Reg. Book. on the Donkey Boiler. S.S. Ophla (Number of Visits 1)

Master Built at By whom built When built

Engines made at By whom made when made

Boilers made at Dunbarlon By whom made Denny & Co when made 1895

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
 as per rule Diameter of Crank shaft journals Diameter of Crank pin Size of Crank webs
 as fitted

Diameter of Tunnel shaft 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 S) Total Heating Surface of Boilers 780 29 12

No. and Description of Boilers one Cylindrical Working Pressure 80 lbs Tested by hydraulic pressure to 160 lbs

Date of test 6.5.95 Can each boiler be worked separately Yes Area of fire grate in each boiler 30 sq ft No. and Description of safety valves to
 each boiler two opening loaded Area of each valve 7 0/29 sq in Pressure to which they are adjusted 80 lbs Are they fitted
 with easing gear Yes Smallest distance between boilers or uptakes and bunkers or woodwork Manchester Mean diameter of boilers 125 3/4"

Length 8' 6" Material of shell plates Steel Thickness 7/16" Description of riveting: circum. seams Lap 2 Rivets long. seams D/Bust 2 Rivets

Diameter of rivet holes in long. seams 13/16" Pitch of rivets 3 1/2" Lap of plates or width of butt straps 9"

Per centages of strength of longitudinal joint rivets 76.7 Working pressure of shell by rules 85.5 lbs Size of manhole in shell 13 x 17"
 plate 78.4

Size of compensating ring 9/16 x 8 7/2 No. and Description of Furnaces in each boiler two plain Material Steel Outside diameter 37"

Length of plain part Thickness of plates crown 3 1/2" Description of longitudinal joint welded No. of strengthening rings None
 bottom

Working pressure of furnace by the rules 101 lbs Combustion chamber plates: Material Steel Thickness: Sides 1/2" Back 1/2" Top 1/2" Bottom 1/2"

Pitch of stays to ditto: Sides 9" Back 8 1/4 x 8 3/4 Top 8 1/4 x 9 If stays are fitted with nuts or riveted heads Nuts Working pressure by rules 95

Material of stays Steel Diameter at smallest part 96 Area supported by each stay 8 1/4 sq in Working pressure by rules 94 lbs End plates in steam space:

Material Steel Thickness 7/16" Pitch of stays 16 1/2 x 16 How are stays secured Nuts & Washers Working pressure by rules 82 lbs Material of stays Steel

Diameter at smallest part 309 sq in Area supported by each stay 26 1/4 sq in Working pressure by rules 105 lbs Material of Front plates at bottom Steel

Thickness 3/4" Material of Lower back plate Steel Thickness 7/16" Greatest pitch of stays 8 3/4" Working pressure of plate by rules 106 lbs

Diameter of tubes 3" Pitch of tubes 4 1/4" Material of tube plates Steel Thickness: Front 3/4" Back 3/4" Mean pitch of stays 8 1/2"

Pitch across wide water spaces 15" Working pressures by rules 89 lbs Girders to Chamber tops: Material Iron Depth and
 thickness of girder at centre 5" x 2 x 7/8" Length as per rule 24" Distance apart 8 1/4" Number and pitch of Stays in each 2 x 9"

Working pressure by rules 98 lbs 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

15791 gr.

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 _____

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 _____

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,
Denny & Co Manufacturer.

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

Certificate (if required) to be sent to

The amount of Entry Fee..	£	:	:	When applied for,	18
Special	£	:	:	When received,	18
Donkey Boiler Fee .. .	£	:	:		
Travelling Expenses (if any)	£	:	:		

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

Committee's Minute

Assigned

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



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