

REPORT ON MACHINERY.

Port of Glasgow

Received at London Office MON. APR 13 1896

No. in Survey held at Renfrew Date, first Survey _____ Last Survey 18

Reg. Book. _____ on the S. S. Okinawa Maru (Number of Visits _____)

Master _____ Built at _____ By whom built Supplementary Report on Donkey Boiler Tons { Gross _____ Net _____ When built _____

Engines made at _____ By whom made _____ when made _____

Boilers made at Renfrew By whom made Schultz & Co when made 1896

Registered Horse Power _____ Owners _____ Port belonging to Johns

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 fitted _____

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 fitted with a watertight door _____ worked from _____

BOILERS, &c. — (Letter for record S) Total Heating Surface of Boilers 430 sq ft

No. and Description of Boilers one Cylindrical return tubular Working Pressure 175 lbs Tested by hydraulic pressure to 350 lbs

Date of test 16.1.96 Can each boiler be worked separately Yes Area of fire grate in each boiler 17.8 sq ft No. and Description of safety valves to each boiler two spring loaded Area of each valve 3.14 sq in Pressure to which they are adjusted 180 lbs Are they fitted with easing gear Yes Smallest distance between boilers or uptakes and bunkers on woodwork 15" Mean diameter of boilers 96"

Length 8' 6" Material of shell plates Steel Thickness 7/8" Description of riveting: circum. seams Cap 2 Knives long. seams 8 Knives 5 Knives

Diameter of rivet holes in long. seams 1 1/16" Pitch of rivets 6 1/2" Lap of plates or width of butt straps 14 1/2" x 3/4"

Per centages of strength of longitudinal joint _____ rivets _____ 116 _____ plate _____ 83.7 _____ Working pressure of shell by rules 209 lbs Size of manhole in shell 12 x 16

Size of compensating ring 3/4" x 7" No. and Description of Furnaces in each boiler one Morrison Material Steel Outside diameter 42"

Length of plain part _____ top _____ bottom _____ Thickness of plates _____ crown _____ 39/16 _____ bottom _____ Description of longitudinal joint weld No. of strengthening rings currup.

Working pressure of furnace by the rules 180 lbs Combustion chamber plates: Material Steel Thickness: Sides 9/16" Back 9/16" Top 9/16" Bottom 3/4"

Pitch of stays to ditto: Sides 7 7/8" Back 7 7/8" Top 7 1/4" If stays are fitted with nuts or riveted heads nuts Working pressure by rules 176 lbs

Material of stays Steel Diameter at smallest part 1.454 in Area supported by each stay 62 sq in Working pressure by rules 187 lbs End plates in steam space: _____

Material Steel Thickness 1" Pitch of stays 14 1/2" x 12 7/8" How are stays secured by nuts & washers Working pressure by rules 243 lbs Material of stays Steel

Sealing _____ diameter at smallest part 4.77 Area supported by each stay 187 sq in Working pressure by rules 216 lbs Material of Front plates at bottom Steel

Thickness 1" Material of Lower back plate Steel Thickness 1" Greatest pitch of stays 7 7/8" Working pressure of plate by rules 412 lbs

Diameter of tubes 3 1/2" Pitch of tubes 4 1/2" x 4 5/8" Material of tube plates Steel Thickness: Front 1" Back 29/32" Mean pitch of stays 9 5/8"

Pitch across wide water spaces 10 1/2" Working pressures by rules 325, 184 lbs Girders to Chamber tops: Material Iron Depth and thickness of girder at centre 7 1/2" x 2 x 3/4" Length as per rule 22 1/2" Distance apart 4 1/4" Number and pitch of Stays in each 11 1/4" (one)

Working pressure by rules 258 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 _____

_____ Pitch of rivets _____ Working pressure of shell by rules _____ Diameter of flue _____ Material of flue plates _____ Thickness _____

_____ 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 _____

14333 Gls

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,
LOBNITZ & Co., LIMITED.
Bedobonia Manufacturer.

Director

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

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

Certificate (if required) to be sent to _____

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

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

Committee's Minute **TUES. APL 14 1896**

Assigned _____



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