

REPORT ON MACHINERY.

Port of Glasgow

1053 6 NOV 1900

Received at London Office 18

No. in Survey held at Paisley Date first Survey 11th May Last Survey 9th Oct 1900
Reg. Book. 36 on the S.S. Marianne (Number of Visits 19)
Master A. Bosulich Built at By whom built Russell & Co When built 1900
Engines made at Greenock By whom made Rankin & Blackmore when made 1900
Boilers made at Paisley By whom made A. F. Craig & Co. Ltd when made 1900.
Registered Horse Power Owners Fratelli Bosulich Port belonging to Trieste
Nom. Horse Power as per Section 28 300 Is Refrigerating Machinery fitted ✓ Is Electric Light fitted ✓

Gross 3598.61
Tons Net 2343.68
When built 1900

ENGINES, &c.—Description of Engines

No. of Cylinders 2 No. of Cranks 2
Dia. of Cylinders as per rule Length of Stroke as per rule Revs. per minute as per rule Dia. of Screw shaft as fitted Lgth. of stern bush as fitted
Dia. of Tunnel shaft as fitted Dia. of Crank shaft journals as fitted Dia. of Crank pin as fitted Size of Crank webs as fitted Dia. of thrust shaft under collars as fitted
Dia. of screw as fitted Pitch of screw as fitted No. of blades as fitted State whether moveable as fitted Total surface as fitted
No. of Feed pumps as fitted Diameter of ditto as fitted Stroke as fitted Can one be overhauled while the other is at work as fitted
No. of Bilge pumps as fitted Diameter of ditto as fitted Stroke as fitted Can one be overhauled while the other is at work as fitted
No. of Donkey Engines as fitted Sizes of Pumps as fitted No. and size of Suctions connected to both Bilge and Donkey pumps as fitted
In Engine Room as fitted In Holds, &c. as fitted

No. of bilge injections as fitted sizes as fitted Connected to condenser, or to circulating pump as fitted Is a separate donkey suction fitted in Engine room & size as fitted
Are all the bilge suction pipes fitted with roses as fitted Are the roses in Engine room always accessible as fitted Are the sluices on Engine room bulkheads always accessible as fitted
Are all connections with the sea direct on the skin of the ship as fitted Are they Valves or Cocks as fitted
Are they fixed sufficiently high on the ship's side to be seen without lifting the stokehold plates as fitted Are the discharge pipes above or below the deep water line as fitted
Are they each fitted with a discharge valve always accessible on the plating of the vessel as fitted Are the blow off cocks fitted with a spigot and brass covering plate as fitted
What pipes are carried through the bunkers as fitted How are they protected as fitted
Are all pipes, cocks, valves, and pumps in connection with the machinery and all boiler mountings accessible at all times as fitted
Are the bilge suction pipes, cocks, and valves arranged so as to prevent any communication between the sea and the bilges as fitted
When were stern tube, propeller, screw shaft, and all connections examined in dry dock as fitted Is the screw shaft tunnel watertight as fitted

Is it fitted with a watertight door as fitted worked from as fitted
OILERS, &c.— (Letter for record as fitted) Total Heating Surface of Boilers 660 Is forced draft fitted as fitted

No. and Description of Boilers One Single Ended Working Pressure 80 lb Tested by hydraulic pressure to 160 lb
Date of test 28/8/00 Can each boiler be worked separately ✓ Area of fire grate in each boiler 26 No. and Description of safety valves to each boiler Two direct spring Area of each valve 5.94 Pressure to which they are adjusted 80 lb Are they fitted with easing gear yes
Smallest distance between boilers or uptakes and bunkers or woodwork Boilers on deck Mean dia. of boilers 9'-6 1/2" Length 8'-0" Material of shell plates Steel
Thickness 1/2" Range of tensile strength 28/32 Are they welded or flanged Neither Descrip. of riveting: cir. seam Single R Lap long. seam Double R Lap
Diameter of rivet holes in long. seams 13/16" Pitch of rivets 3 7/16" Lap of plates or width of butt straps 5 3/4"
Per centages of strength of longitudinal joint 77.0 Working pressure of shell by rules 80 lb Size of manhole in shell 16" x 12"
Size of compensating ring 29 1/2 x 25 x 5/8 No. and Description of Furnaces in each boiler Two plain Material Steel Outside diameter 34"
Length of plain part 60" Thickness of plates 5/8" Description of longitudinal joint Welded No. of strengthening rings None
Working pressure of furnace by the rules 87 Combustion chamber plates: Material Steel Thickness: Sides 1/2" Back 15/32" Top 19/32" Bottom 1/2"
Pitch of stays to ditto: Sides 8 1/2 x 8 1/2 Back 9 x 9 Top 12 x 8 1/2 If stays are fitted with nuts or riveted heads Nuts Working pressure by rules 83 lb
Material of stays Steel Diameter at smallest part 1.96 Area supported by each stay 81 Working pressure by rules 93 lb End plates in steam space: Steel
Material Steel Thickness 5/8" Pitch of stays 14 1/4 x 14 How are stays secured Double Nuts Working pressure by rules 88 lb Material of stays Steel
Diameter at smallest part 2.630 Area supported by each stay 206 Working pressure by rules 98 Material of Front plates at bottom Steel
Thickness 5/8 Material of Lower back plate Steel Thickness 9/16" Greatest pitch of stays 9" Working pressure of plate by rules 135
Diameter of tubes 3 1/4" Pitch of tubes 4 1/4" Material of tube plates Steel Thickness: Front 5/8" Back 5/8" Mean pitch of stays 12 3/4"
Pitch across wide water spaces 13" Working pressures by rules 82 lb Girders to Chamber tops: Material Steel Depth and thickness of girder at centre 6" x 1 1/4" Length as per rule 23" Distance apart 12" Number and pitch of Stays in each One, 11 1/2"
Working pressure by rules 93 lb Superheater or Steam chest; how connected to boiler None Can the superheater be shut off and the boiler worked separately as fitted
Diameter as fitted Length as fitted Thickness of shell plates as fitted Material as fitted Description of longitudinal joint as fitted Diam. of rivet as fitted
Pitch of rivets as fitted Working pressure of shell by rules as fitted Diameter of flue as fitted Material of flue plates as fitted Thickness as fitted
Stiffened with rings as fitted Distance between rings as fitted Working pressure by rules as fitted End plates: Thickness as fitted How stayed as fitted
Working pressure of end plates as fitted Area of safety valves to superheater as fitted Are they fitted with easing gear as fitted

DONKEY BOILER— No. *one* Description *See other side.*

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 _____ Dia. of donkey boiler _____ Length _____ Material of shell plates _____ Thickness _____ Range of tensile
strength _____ Descrip. of meeting long. seams _____ Dia. 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,

Manufacturer.

Dates of Survey while building { During progress of work in shops— 1900. May 11, 17, 28, 30 June 8, 16, 27, 29 July 17, 23, 26 Aug 2, 3, 13, 24, 28, 29 Sep 17
During erection on board vessel — 19. 19.
Total No. of visits 19

Is the approved plan of main boiler forwarded herewith _____

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

This boiler has been built under special survey. The material & workmanship being of good quality, it has been tested by hydraulic pressure to (160) one hundred and sixty pounds per square inch & found tight and sound at that pressure.

This donkey boiler has been forwarded to Greenock to be fitted on board the S.S. Marianne.

The amount of Entry Fee. £ : : When applied for, 12/10/1900
Special £ : :
Donkey Boiler Fee £ 2 : 2 : When received, 20/10/1900
Travelling Expenses (if any) £ : : 15/-

Committee's Minute

Assigned

*Glasgow. 15 OCT. 1900
Approved for completion
Transmitted to Greenock.*

George Spurdock
Engineer Surveyor to Lloyd's Register of British & Foreign



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Foundation