

REPORT ON MACHINERY.

No. 24676
THUR. DEC 6 1906

Port of Glasgow

Received at London Office

19

No. in Survey held at Glasgow
Reg. Book. S/S "Valbanera"

Date, first Survey 9 May

Last Survey 29 Nov 1906

(Number of Visits)

Master Built at Glasgow By whom built L. Connell & Co

Engines made at Glasgow By whom made Dunsinuir, Jackson & Co when made 1906

Boilers made at ditto By whom made ditto when made 1906

Registered Horse Power

Owners

Port belonging to

Nom. Horse Power as per Section 28 444

Is Refrigerating Machinery fitted for cargo purposes No

Is Electric Light fitted Yes

ENGINES, &c.—Description of Engines Triple Expansion

No. of Cylinders 3 No. of Cranks 3

Dia. of Cylinders 29"-46"-74" Length of Stroke 51 Revs. per minute 65 Dia. of Screw shaft as per rule 15.6 Material of screw shaft Iron

Is the screw shaft fitted with a continuous liner the whole length of the stern tube No Is the after end of the liner made water tight

in the propeller boss Yes If the liner is in more than one length are the joints burned Yes If the liner does not fit tightly at the part

between the bearings in the stern tube, is the space charged with a plastic material insoluble in water and non-corrosive Yes If two

liners are fitted, is the shaft lapped or protected between the liners Protected Length of stern bush 5'-3"

Dia. of Tunnel shaft as per rule 13.6 Dia. of Crank shaft journals as per rule 14.2 Dia. of Crank pin 14.2 Size of Crank webs 9 1/2 x 28 Dia. of thrust shaft under

collars 14 1/2 Dia. of screw 14-6 Pitch of Screw 2.1 No. of Blades 4 State whether moveable Yes Total surface 95 1/2

No. of Feed pumps 2 Diameter of ditto 4 1/2 Stroke 24 Can one be overhauled while the other is at work Yes

No. of Bilge pumps 2 Diameter of ditto 4 1/2 Stroke 24 Can one be overhauled while the other is at work Yes

No. of Donkey Engines 4 Sizes of Pumps Main 10 1/2 x 8 1/2, 2 1/2 x 5 1/2, 2 1/2 x 5 1/2, 2 1/2 x 5 1/2 No. and size of Suctions connected to both Bilge and Donkey pumps

In Engine Room 2 - 3 1/2", 2 - 3 1/2", 2 - 3 1/2", 2 - 3 1/2" In Holds, &c. No. 1 - Two 3 1/2" No. 2 Two 3 1/2" No. 3 Two 3 1/2"

Tunnel Ball 3 1/2"

No. of Bilge Injections 1 sizes 6" Connected to condenser, or to circulating pump Air Is a separate Donkey Suction fitted in Engine room & size Yes 3 1/2"

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 Yes

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

Dates of examination of completion of fitting of Sea Connections 30-10-06 of Stern Tube 30-10-06 Screw shaft and Propeller

Is the Screw Shaft Tunnel watertight Apparently Is it fitted with a watertight door Yes worked from Upper & R. Platform

BOILERS, &c.—(Letter for record) Manufacturers of Steel Steel Co. of Scotland & Stuart Lloyd

Total Heating Surface of Boilers 4454 Is Forced Draft fitted No No. and Description of Boilers 2 Double Ended

Working Pressure 160 lb Tested by hydraulic pressure to 320 Date of test 5-11-06 No. of Certificate 8403

Can each boiler be worked separately Yes Area of fire grate in each boiler 115.5 No. and Description of Safety Valves to 8404

each boiler 2 Double Spring Area of each valve 14.17 Pressure to which they are adjusted 165 Are they fitted with easing gear Yes

Smallest distance between boilers or uptakes and bunkers or woodwork Mean dia. of boilers 15' Length 17' Material of shell plates S

Thickness 3/32" Range of tensile strength 28/32 Are the shell plates welded or flanged Yes Descrip. of riveting: cir. seams TR

long. seams TR Diameter of rivet holes in long. seams 13/16 Pitch of rivets 8 1/2 Lap of plates or width of butt straps 1-5 1/2"

Per centages of strength of longitudinal joint rivets 88.6 Working pressure of shell by rules 161.2 Size of manhole in shell 16 1/2

Size of compensating ring 17 1/2 x 17 1/2 No. and Description of Furnaces in each boiler 6 Morrison Material S Outside diameter 3'-10"

Length of plain part top 36.4 Thickness of plates crown 7/8 Description of longitudinal joint Weld No. of strengthening rings Yes

Working pressure of furnace by the rules 164 lb Combustion chamber plates: Material S Thickness: Sides 7/8 Back 7/8 Top 7/8 Bottom 7/8

Pitch of stays to ditto: Sides 8 1/4 x 9 Back 9 1/4 x 13 1/2 Top 9 1/4 x 13 1/2 If stays are fitted with nuts or riveted heads Nuts & Rivets Working pressure by rules 170 lb

Material of stays S Diameter at smallest part 1.76 Area supported by each stay 8.1 Working pressure by rules 174 lb End plates in steam space:

Material S Thickness 1 1/16 Pitch of stays 16 x 18 1/2 How are stays secured Nuts Working pressure by rules 164 lb Material of stays S

Diameter at smallest part 5.26 Area supported by each stay 30.4 Working pressure by rules 173 lb Material of Front plates at bottom S

Thickness 7/8 Material of Lower back plate S Thickness 7/8 Greatest pitch of stays Working pressure of plate by rules

Diameter of tubes 3 1/2 Pitch of tubes 4 7/8 Material of tube plates S Thickness: Front 1 Back 1 1/16 Mean pitch of stays 11 1/4"

Pitch across wide water spaces 1-2 1/2 Working pressures by rules 170 lb Girders to Chamber tops: Material S Depth and

thickness of girder at centre 10 x 1 (32 lb) Length as per rule 3-1 Distance apart 9" Number and pitch of stays in each 3 at 8 1/4"

Working pressure by rules 180 lb Superheater or Steam chest; how connected to boiler 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

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