

Port of Hull

Received at London Office 17th OCT 1905

No. in Survey held at Hull Date, first Survey May 31st Last Survey Oct. 17th 1905
Reg. Book. 26 Suff. on the Screw Steamer "Marshal Oyama"
Master Built at Hull By whom built Charles J. B. + Co. G. L.
Engines made at Hull By whom made Charles J. B. + Co. G. L. when made 1905
Boilers made at do By whom made do when made 1905
Registered Horse Power 77 Owners Pickering Haldane's S. J. Cold. Port belonging to Hull
Nom. Horse Power as per Section 28 77 Is Refrigerating Machinery fitted for cargo purposes No Is Electric Light fitted No

ENGINES, &c.—Description of Engines Triple No. of Cylinders 3 No. of Cranks 3
Dia. of Cylinders 12 3/4, 22, 36 Length of Stroke 24 Revs. per minute 110 Dia. of Screw shaft as per rule 7.4 as fitted 8 Material of screw shaft Iron
Is the screw shaft fitted with a continuous liner the whole length of the stern tube yes 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 yes Length of stern bush 2-8 1/2
Dia. of Tunnel shaft as per rule 6.75 as fitted 7 3/8 Dia. of Crank shaft journals as per rule 7 1/2 as fitted 7 1/2 Dia. of Crank pin 7 1/2 Size of Crank webs 4x4 3/8 Dia. of thrust shaft under
collars 7 1/2 Dia. of screw 9-0 Pitch of screw 11-6 No. of blades 4 State whether moveable No Total surface 27 sq. ft.
No. of Feed pumps 1 Diameter of ditto 3 Stroke 12 Can one be overhauled while the other is at work yes
No. of Bilge pumps 1 Diameter of ditto 3 Stroke 12 Can one be overhauled while the other is at work yes
No. of Donkey Engines 2 Sizes of Pumps 6x3x6 6x6x6 No. and size of Suctions connected to both Bilge and Donkey pumps
In Engine Room One 2 dia. In Holds, &c. Three 2 dia.
Ejector suction from Engine bilge + holds + discharge on deck. (4" Donkey)
No. of bilge injections 1 sizes 3 1/2 Connected to condenser, or to circulating pump Cond. Is a separate donkey suction fitted in Engine room & size 3" Ejector.
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 yes
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 Hold suction How are they protected Wood casing
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
When were stern tube, propeller, screw shaft, and all connections examined in dry dock 17/10/05 Is the screw shaft tunnel watertight None
Is it fitted with a watertight door yes worked from yes

BOILERS, &c.— (Letter for record (5) Total Heating Surface of Boilers 1250 sq. ft. Is forced draft fitted No
No. and Description of Boilers One S. E. Cyl. Multi Working Pressure 200 lbs. Tested by hydraulic pressure to 400 lbs
Date of test 10.10.05 Can each boiler be worked separately yes Area of fire grate in each boiler 43 sq. ft. No. and Description of safety valves to
each boiler Two direct spring Area of each valve 4.9 Pressure to which they are adjusted 205 lbs. Are they fitted with easing gear yes
Smallest distance between boilers or uptakes and bunkers or woodwork 6 1/2 Mean dia. of boilers 12-9 Length 10-3 1/2 Material of shell plates Steel
Thickness 1 3/32 Range of tensile strength 28-32 Are they welded or flanged No Descrip. of riveting: cir. seams BR Lap long. seams BR 5 Rivets
Diameter of rivet holes in long. seams 1 7/16 Pitch of rivets 8 1/16 Lap of plates or width of butt straps 17 1/2
Per centages of strength of longitudinal joint rivets 88.3 plate 85.2 Working pressure of shell by rules 201 lbs. Size of manhole in shell 16 x 12
Size of compensating ring 3-4 x 2-6 x 1 3/8 No. and Description of Furnaces in each boiler Three plain Material Steel Outside diameter 3-0
Length of plain part top 6-4 bottom 5-10 1/2 Thickness of plates crown 3/4 Description of longitudinal joint Welded No. of strengthening rings 1
Working pressure of furnace by the rules 207 lbs. Combustion chamber plates: Material Steel Thickness: Sides 1/16 Back 1/16 Top 1/16 Bottom 1/16
Pitch of stays to ditto: Sides 8 1/2 x 8 Back 9 5/8 x 7 5/8 Top 8 x 7 1/4 If stays are fitted with nuts or riveted heads Nuts Working pressure by rules 217 lbs
Material of stays Steel Diameter at smallest part 1.76 Area supported by each stay 68 Working pressure by rules 207 lbs End plates in steam space:
Material Steel Thickness 1 3/32 Pitch of stays 17 x 15 How are stays secured Nuts Working pressure by rules 209 lbs Material of stays Steel
Diameter at smallest part 2 3/16 Area supported by each stay 255 Working pressure by rules 203 lbs Material of Front plates at bottom Steel
Thickness 1 5/16 Material of Lower back plate Steel Thickness 2 3/8 + 3/4 Greatest pitch of stays 19 x 11 1/2 Working pressure of plate by rules 220 lbs
Diameter of tubes 3 1/2 Pitch of tubes 4 3/8 x 4 3/8 Material of tube plates Steel Thickness: Front 1 5/16 Back 1 3/16 Mean pitch of stays 9 3/4 x 9 1/2
Pitch across wide water spaces 13 3/4 Working pressures by rules 202 lbs Girders to Chamber tops: Material Steel Depth and
thickness of girder at centre 9 1/2 x 1 3/4 Length as per rule 2-9 1/2 Distance apart 7 1/4 Number and pitch of Stays in each 308
Working pressure by rules 246 lbs Superheater or Steam chest; how connected to boiler None Can the superheater be shut off and the boiler worked
separately yes Diameter yes Length yes Thickness of shell plates yes Material yes Description of longitudinal joint 2020 Diam. of rivet
holes yes Pitch of rivets yes Working pressure of shell by rules yes Diameter of flue yes Material of flue plates yes Thickness yes
If stiffened with rings yes Distance between rings yes Working pressure by rules yes End plates: Thickness yes How stayed yes
Working pressure of end plates yes Area of safety valves to superheater yes Are they fitted with easing gear yes

If not, state whether, and when, etc.

DONKEY BOILER— No. _____ 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 _____
 Dia. of donkey boiler _____ Length _____ Material of shell plates _____ Thickness _____ Range of tensile strength _____
 Descrip. of riveting 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:— *Two top + two bottom-end connecting rod bolts + nuts. Two main bearing bolts + nuts. One set of coupling bolts + nuts. One set of feed + bilge pump valves. Main + donkey feed check valves. Assorted bolts + nuts &c*
 The foregoing is a correct description,
 J. J. Palethorpe Manufacturer.

SECRETARY 1905:— May 31. Jun 7. 14. 15. 19. 28. July 3. 6. 18. Aug 16. 17. Sep 5. 12. 14.
 Dates of Survey while building { During progress of work in shops - - }
 { During erection on board vessel - - }
 Total No. of visits 23.

Is the approved plan of main boiler forwarded herewith (To be returned) Yes
 " " " donkey " " " ✓

General Remarks (State quality of workmanship, opinions as to class, &c.)
The engines and boiler of this vessel have been constructed under Special Survey, are of good material and workmanship, and have been fitted and secured on board in accordance with the Rules. They are now in good working condition and in my opinion eligible to have the notation of +LMC 10, 05, in the Register Book.

It is submitted that this vessel is eligible for THE RECORD +LM.C.10.05

Emb.
 31-10-05.
 J. J. Palethorpe
 31.10.05

The amount of Entry Fee. £ 1 : : :
 Special £ 11 : : :
 Donkey Boiler Fee £ : : :
 Travelling Expenses (if any) £ : : :
 When applied for, 28/10/05
 When received, 22/12/05

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

Committee's Minute TUES. 31 OCT 1906
 Assigned + L.M.C. 10.05



Certificate (if required) to be sent to Hull

MACHINERY CERTIFICATE WRITTEN