

Port of Hull

Received at London Office TUES. 1 AUG 1905

No. in Survey held at Hull Date, first Survey Mar 1st Last Survey 15th July 1905
Reg. Book. 2 Buff on the Steel Ss. Ks. Orpheus (Number of Visits 30) Gross 228
Master Selby Built at Selby By whom built Bocheane Sons Tons { Net 91
Engines made at Hull By whom made Amos Smith when made 1905
Boilers made at Hull By whom made Amos Smith when made 1905
Registered Horse Power 68.8 Owners E. Bacon & Co. Port belonging to Grimby
Nom. Horse Power as per Section 28 68.8 Is Refrigerating Machinery fitted for cargo purposes No Is Electric Light fitted No

ENGINES, &c.—Description of Engines Triple Expansion No. of Cylinders 3 No. of Cranks 3
Dia. of Cylinders 12-21-34 Length of Stroke 24 Revs. per minute 112 Dia. of Screw shaft as per rule 6.99 Material of 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 One length 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 If two
liners are fitted, is the shaft lapped or protected between the liners plain part Length of stern bush 36
Dia. of Tunnel shaft as per rule 6.26 Dia. of Crank shaft journals as per rule 6.57 Dia. of Crank pin 6.2 Size of Crank webs 10.2 x 4.2 Dia. of thrust shaft under
collars 6.2 Dia. of screw 8.6 Pitch of screw 10-6 No. of blades 4 State whether moveable No Total surface 30 ft
No. of Feed pumps One Diameter of ditto 2.5 Stroke 13 Can one be overhauled while the other is at work
No. of Bilge pumps One Diameter of ditto 3 Stroke 13 Can one be overhauled while the other is at work
No. of Donkey Engines One Sizes of Pumps 3" x 6" x 6" No. and size of Suctions connected to both Bilge and Donkey pumps
In Engine Room One 2" In Holds, &c. One each, 2" to each slush
well, & to hold, and ejector suction from Eng. Bilge & holds
No. of bilge injections 1 sizes 3" Connected to condenser, or to circulating pump pump a separate donkey suction fitted in Engine room & size Yes 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 0
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 before launching Is the screw shaft tunnel watertight None
Is it fitted with a watertight door worked from

BOILERS, &c.— (Letter for record 8) Total Heating Surface of Boilers 1164 ft Is forced draft fitted No
No. and Description of Boilers One Cyl. Multi Working Pressure 180 lbs Tested by hydraulic pressure to 360 lbs
Date of test 26.5.05 Can each boiler be worked separately Area of fire grate in each boiler 34 ft No. and Description of safety valves to
each boiler Two Spring Area of each valve 3.980 Pressure to which they are adjusted 185 lbs Are they fitted with easing gear Yes
Smallest distance between boilers or uptakes and bunkers or woodwork 5.2 Mean dia. of boilers 12' 0" Length 10' 0" Material of shell plates Steel
Thickness 1" Range of tensile strength 28-32 Are they welded or flanged Descrip. of riveting: cir. seams L. D. long. seams D. B. S. J. R
Diameter of rivet holes in long. seams 1.2 Pitch of rivets 7.63 Lap of plates or width of butt straps 16.2
Per centages of strength of longitudinal joint rivets 96.5 Working pressure of shell by rules 180 lbs Size of manhole in shell 16" x 12"
Size of compensating ring 40" x 30" x 1" No. and Description of Furnaces in each boiler Two plain Material Steel Outside diameter 42.24
Length of plain part top 5.7 Thickness of plates crown 4.9 Description of longitudinal joint Welded No. of strengthening rings 0
bottom 6.4 Working pressure of furnace by the rules 190 lbs Combustion chamber plates: Material Steel Thickness: Sides 2.2 Back 1.6 Top 1.6 Bottom 2.2
Pitch of stays to ditto: Sides 9.4 x 7 Back 9.4 x 8.2 Top 7.2 x 8 If stays are fitted with nuts or riveted heads Nuts Working pressure by rules 207 lbs
Material of stays Steel Diameter at smallest part 1.2 Area supported by each stay 64.75 Working pressure by rules 217 lbs End plates in steam space:
Material Steel Thickness 3.1 Pitch of stays 16" x 15.2 How are stays secured secured with both end plates & fitted with nuts & washers outside Working pressure by rules 181 lbs Material of stays Steel
Diameter at smallest part 2.34 Area supported by each stay 24.4 Working pressure by rules 206 lbs Material of Front plates at bottom Steel
Thickness 2.2 Material of Lower back plate Steel Thickness 1.6 Greatest pitch of stays 14" Working pressure of plate by rules 180 lbs
Diameter of tubes 3.2 Pitch of tubes 5 x 4.34 Material of tube plates Steel Thickness: Front 2.9 Back 2.2 Mean pitch of stays 9.2 x 10"
Pitch across wide water spaces 14" Working pressures by rules 182 lbs Girders to Chamber tops: Material Steel Depth and
thickness of girder at centre 7.2 x 2" Length as per rule 2' 9" Distance apart 8" Number and pitch of Stays in each 3 - 7.2"
Working pressure by rules 180 lbs 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

006364-006386-0140

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 each top and bottom end connecting rod bolts and nuts, two main bearing bolts & nuts, one set coupling bolts and nuts, One set each, air, circulating feed, bilge pump valves, and a quantity of assorted bolts & nuts.*

The foregoing is a correct description,

MOS & SMITH Manufacturer.

Dates { During progress of work in shops - - } *108 Hide* 1905:— Mar. 1. 7. 11. 15. 21. 30 Apr. 3. 11. 19. 29 May 5. 11. 15. 19. 24. 26. 27. 30 Jun. 5.

of Survey { During erection on } **MANAGER.**

while { board vessel - - } *per JMS* Jun. 7. 16. 20. 29. 7. July 5. 7. 10. 11. 12. 14. 15

building { Total No. of visits } 30

Is the approved plan of main boiler forwarded herewith { *Not was sent on with Rpt No 16955* }

General Remarks (State quality of workmanship, opinions as to class, &c. *The machinery and boilers*)

*of this vessel have been inspected throughout construction in accordance with the Society's Rules. The materials and workmanship are good. The boilers tested by hydraulic pressure and with the engines placed on board and tested under steam. They are now in good order and safe working condition and respectfully submitted as being eligible in my opinion to be classed with the notification of *L.M.C. 7.05 in the Register Book.*

This is a sister vessel to the "Viola". Hul. Report 7.16955

It is submitted that this vessel is eligible for THE RECORD + LMC 7.05

CM.
1.8.05
1.8.05

The amount of Entry Fee. £ 1 : - : - When applied for, 27/7/1905

Special £ 10 : 7 : -

Donkey Boiler Fee £ - : - : -

Travelling Expenses (if any) £ - : 8 : 2 When received, 31/7/1905

James Barclay
Engineer Surveyor to Lloyd's Register of British & Foreign Shipping.
18. 7. 05

Committee's Minute

FRI. 4. AUG 1905

Assigned

+ LMC 7.05

MACHINERY CERTIFICATE
WRITTEN.



© 2020

Lloyd's Register
Foundation

Certificate (if required) to be sent to Hull

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