

REPORT ON MACHINERY.

No. 19565

Port of Hull

Received at London Office THUR. 7 NOV 1907

No. in Survey held at Hull Date, first Survey June 6th Last Survey Oct. 30th 1907.

Reg. Book. 37th Suff on the Trawler Semiramis (Number of Visits 30)

Master Built at Beccrey By whom built Cook, Wether & Gemmel Tons { Gross 24.6 Net 12.6 When built 1907

Engines made at Hull By whom made Chas. S. Holmes & Co. when made 1907-10

Boilers made at Hull By whom made S when made 1907-10

Registered Horse Power Owners Roberts & Ruthven Ltd Port belonging to Grimsby

Nom. Horse Power as per Section 28 68. 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 1/2 - 22 - 35 Length of Stroke 24 Revs. per minute 112 Dia. of Screw shaft as per rule 7.15 as fitted 7.5 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 No If the liner is in more than one length are the joints burned No 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 No

If two liners are fitted, is the shaft lapped or protected between the liners No Length of stern bush 36

Dia. of Tunnel shaft as per rule 6.386 as fitted 6.75 Dia. of Crank shaft journals as per rule 6.75 as fitted 7.1 Dia. of Crank pin 7 Size of Crank webs 13 1/2 Dia. of thrust shaft under collars 7 Dia. of screw 8-7 1/2 Pitch of Screw 11-0 No. of Blades 4 State whether moveable No Total surface 28 sq ft

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

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

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

In Engine Room 2-2 (Fwd. aft) In Holds, &c. 4-2 (Fore peak, Fwd. stbd. well, main hold, after stbd. well) 2 1/2 (Each suction from engine to 2 1/2 Separation from engine)

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

Are all the bilge suction pipes fitted with roses No Are the roses in Engine room always accessible No Are the sluices on Engine room bulkheads always accessible No

Are all connections with the sea direct on the skin of the ship No Are they Valves or Cocks Both

Are they fixed sufficiently high on the ship's side to be seen without lifting the stokehold plates No 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 No Are the Blow Off Cocks fitted with a spigot and brass covering plate No

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 No

Are the Bilge Suction Pipes, Cocks, and Valves arranged so as to prevent any communication between the sea and the bilges No

Dates of examination of completion of fitting of Sea Connections 27.9.07 of Stern Tube 27.9.07 Screw shaft and Propeller 27.9.07

Is the Screw Shaft Tunnel watertight No Is it fitted with a watertight door No worked from No

BOILERS, &c.—(Letter for record S) Manufacturers of Steel Shewan & Doyne, Glasgow.

Total Heating Surface of Boilers 1046 sq ft Is Forced Draft fitted No No. and Description of Boilers 1 S.E. Multitubular Working Pressure 180 lbs Tested by hydraulic pressure to 360 Date of test 2.10.07 No. of Certificate 1599

Can each boiler be worked separately No Area of fire grate in each boiler 33 sq ft No. and Description of Safety Valves to each boiler 2 Spring loaded Area of each valve 3.9 Pressure to which they are adjusted 185 lbs Are they fitted with easing gear No

Smallest distance between boilers or uptakes and bunkers or woodwork 8" Mean dia. of boilers 12-6 Length 10-0 Material of shell plates Steel Thickness 1/2 Range of tensile strength 28-32 Are the shell plates welded or flanged No Descrip. of riveting: cir. seams S.R. Lap long. seams S.B.S. rivets Diameter of rivet holes in long. seams 1 1/2 Pitch of rivets 7 Lap of plates or width of butt straps 15

Per centages of strength of longitudinal joint rivets 86.5 plate 88.2 Working pressure of shell by rules 180 Size of manhole in shell 17 x 13

Size of compensating ring 7 1/2 x 1 1/2 No. and Description of Furnaces in each boiler 2 Plain Material Steel Outside diameter 3-7

Length of plain part top 5-10 bottom 5-3 1/2 Thickness of plates crown 1/4 bottom 3/8 Description of longitudinal joint welded No. of strengthening rings No

Working pressure of furnace by the rules 184 Combustion chamber plates: Material Steel Thickness: Sides 3/32 Back 1/16 Top 3/32 Bottom 2/32

Pitch of stays to ditto: Sides 9 x 9 Back 9 x 8 1/2 Top 8 1/2 x 8 1/2 If stays are fitted with nuts or riveted heads No Working pressure by rules 208

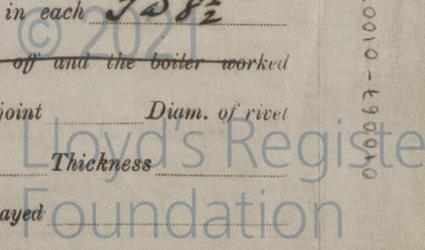
Material of stays Steel Diameter at smallest part 1 1/8 Area supported by each stay 81 sq in Working pressure by rules 230 End plates in steam space: Material Steel Thickness 1/2 Pitch of stays 1 1/2 x 1 1/2 How are stays secured S.R. rivets Working pressure by rules 185 Material of stays Steel

Diameter at smallest part 2 1/8 Area supported by each stay 306 sq in Working pressure by rules 202 Material of Front plates at bottom Steel Thickness 3/8 Material of Lower back plate Steel Thickness 1/2 Greatest pitch of stays 15 x 9 Working pressure of plate by rules 192

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

Pitch across wide water spaces 1 1/2 Working pressures by rules 180 Girders to Chamber tops: Material Steel Depth and thickness of girder at centre 9 x 1 1/2 Length as per rule 2-8 Distance apart 8 1/2 Number and pitch of stays in each 208 1/2 Working pressure by rules 213 Superheater or Steam chest; how connected to boiler None Can the superheater be shut off and the boiler worked separately No 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

2700-86010-69000



VERTICAL DONKEY BOILER— Manufacturers of Steel

No. _____ Description _____

Made at _____ By whom made _____ When made _____ Where fixed _____

Working pressure tested by hydraulic pressure to _____ Date of test _____ No. of Certificate _____ Fire grate area _____ Description of Safety _____

Valves _____ No. of Safety Valves _____ Area of each _____ Pressure to which they are adjusted _____ Date of adjustment _____

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 _____ Plates _____

Working pressure of shell by rules _____ 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 _____

Working pressure of furnace by rules _____ Thickness of furnace crown plates _____ Stayed by _____

Diameter of uptake _____ Thickness of uptake plates _____ Thickness of water tubes _____ Dates of survey _____

SPARE GEAR. State the articles supplied:— *Two top & two bottom connecting rods with nuts, two main bearing bolts, one set of coupling bolts & nuts, one set of feed & high pump valves, one main & one feed chest valve, and other bolts & nuts etc.*

The foregoing is a correct description,

PER PRO CHARLES D. HOLMES & Co. Manufacturer.

H. Alton

Dates of Survey while building { During progress of work in shops - } 1907 June 6, 14, 28, July 9, 12, 26, 30, Aug 9, 17, 20, 23, 24, Sept 5, 9, 13, 14, 16, 17, 21, 25, 27, 28, Oct 1, 2, 9, 10, 12.
 { During erection on board vessel - } Oct 14, 19, 30.
 Total No. of visits 30

Is the approved plan of main boiler forwarded herewith *yes*

Dates of Examination of principal parts—Cylinders *20.9.07* Slides *25.9.07* Covers *13.9.07* Pistons *20.9.07* Rods *20.9.07*
 Connecting rods *20.9.07* Crank shaft *25.9.07* Thrust shaft *25.9.07* Tunnel shafts ✓ Screw shaft *20.8.07* Propeller *17.8.07*
 Stern tube *17.8.07* Steam pipes tested *9.10.07* Engine and boiler seatings *27.9.07* Engines holding down bolts *9.10.07*
 Completion of pumping arrangements *12.10.07* Boilers fixed *9.10.07* Engines tried under steam *12.10.07*
 Main boiler safety valves adjusted *12.10.07* Thickness of adjusting washers *F₅ A₅*
 Material of Crank shaft *Iron* Identification Mark on Do. *364 7.45 25.9.07* Material of Thrust shaft *Iron* Identification Mark on Do. *364 7.45 20.9.07*
 Material of Tunnel shafts ✓ Identification Marks on Do. ✓ Material of Screw shafts *Iron* Identification Marks on Do. *364 7.45 20.9.07*
 Material of Steam Pipes *Solid drawn copper* Test pressure *360 lb.*

General Remarks (State quality of workmanship, opinions as to class, &c. *The machinery & train of this vessel have been constructed under Special Survey, all of good material & workmanship & have been fitted & secured in accordance with the Rules. They are now in good working condition, & eligible in my opinion to have the notation -1- L.M.C. 10.07 in the Register Book.*

It is submitted that this vessel is eligible for THE RECORD + LMC 1007

J.M.
7/11/07

J.S.
7.11.07

The amount of Entry Fee.. £ *7* : : : When applied for, *6/11/07*
 Special .. £ *10* : : :
 Donkey Boiler Fee .. £ : : :
 Travelling Expenses (if any) £ *2* : : : When received, *29/11/07*

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

Committee's Minute **FRI. 8 NOV 1907**

Assigned *LMB 1007*



© 2021

Lloyd's Register Foundation

MACHINE WRITTEN CERTIFICATE

Null

Certificate (if required) to be sent to the Surveyors are requested not to write on or below the space for Committee's Minute.