

Port of *Hull*

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No. in Survey held at *Goole & Hull* Date, first Survey *May 21/06* Last Survey *17th Jan'y 1907*
 Reg. Book. *26* on the *Steel S. K. Oriole* (Number of Visits *47*) Tons ^{Gross} *172* _{Net} *52*
 Master *Goole* Built at *Goole* By whom built *Goole S. B. R. Co. Ltd* When built *1907*
 Engines made at *Hull* By whom made *Messrs* when made *1907*
 Boilers made at *Hull* By whom made *Earles & Co. Ltd* when made *1907*
 Registered Horse Power *53* Owners *Kelsall Brothers & Breckings Ltd.* Port belonging to *Hull*
 Nom. Horse Power as per Section 28 *53* 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" - 20" - 32"* Length of Stroke *21"* Revs. per minute *105* Dia. of Screw shaft *as per rule 6.72* Material of *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 *two separate liners* 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 *No* Length of stern bush *32 1/4"*
 Dia. of *Thrust* shaft *as per rule 5.68* Dia. of Crank shaft journals *as per rule 5.96* Dia. of Crank pin *6"* Size of Crank webs *11 3/4" x 4"* Dia. of thrust shaft under
 collars *6 1/4"* Dia. of screw *8-9* Pitch of Screw *9-6 to 10-6* No. of Blades *4* State whether moveable *No* Total surface *26 sq*
 No. of Feed pumps *1* Diameter of ditto *2 1/2"* Stroke *10"* Can one be overhauled while the other is at work *—*
 No. of Bilge pumps *1* Diameter of ditto *2 1/2"* Stroke *10"* Can one be overhauled while the other is at work *—*
 No. of Donkey Engines *1* Sizes of Pumps *4 x 2 3/4" x 4"* No. and size of Suctions connected to both Bilge and Donkey pumps
 In Engine Room *Two two inches* In Holds, &c. *One 2" hold, one 2" to ca. tank,*
and ejector suction from eng. room bilge, hold with discharge on deck.
 No. of Bilge Injections *1* sizes *3 1/2"* Connected to condenser, or to circulating pump *Is a separate Donkey Suction fitted in Engine room & size*
 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 tank 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*
 Dates of examination of completion of fitting of Sea Connections *23. 11. 06* of Stern Tube *23. 11. 06* Screw shaft and Propeller *23. 11. 06*
 Is the Screw Shaft Tunnel watertight *—* Is it fitted with a watertight door *—* worked from *—*

BOILERS, &c.—(Letter for record *5*) Manufacturers of Steel *Herder Bergwerks. Hutter Verein. Germany*

Total Heating Surface of Boilers *900 sq* Is Forced Draft fitted *No* No. and Description of Boilers *One Cyl. Mult.*
 Working Pressure *160 lbs* Tested by hydraulic pressure to *320 lbs* Date of test *6. 12. 06* No. of Certificate *1535*
 Can each boiler be worked separately *—* Area of fire grate in each boiler *24.5 sq* No. and Description of Safety Valves to
 each boiler *Two Spring* Area of each valve *3.14 sq* Pressure to which they are adjusted *165 lbs* Are they fitted with easing gear *Yes*
 Smallest distance between boilers or uptakes and bunkers or woodwork *12"* Mean dia. of boilers *10-6"* Length *9-6"* Material of shell plates *Steel*
 Thickness *3/32"* Range of tensile strength *28-32 tons* Are the shell plates welded or flanged *No* Descrip. of riveting: cir. seams *L.D.*
 long. seams *D.B.S.Y.R.* Diameter of rivet holes in long. seams *1 1/16"* Pitch of rivets *5 3/8"* Lap of plates or width of butt straps *11 1/2"*
 Per centages of strength of longitudinal joint *86.7* Working pressure of shell by rules *160 lbs* Size of manhole in shell *16" x 12"*
 Size of compensating ring *30" x 28" x 3/32"* No. and Description of Furnaces in each boiler *2 plain* Material *Steel* Outside diameter *2'-10"*
 Length of plain part *top 5'-10"* Thickness of plates *crown 3/32"* Description of longitudinal joint *Welded* No. of strengthening rings *0*
 Working pressure of furnace by the rules *185 lbs* Combustion chamber plates: Material *Steel* Thickness: Sides *5/8"* Back *3/32"* Top *5/8"* Bottom *5/8"*
 Pitch of stays to ditto: Sides *8 1/2" x 8 1/2"* Back *10" x 9"* Top *8 1/2" x 7 1/2"* If stays are fitted with nuts or riveted heads *7/8"* Working pressure by rules *164 lbs*
 Material of stays *Steel* Diameter at smallest part *1 1/2"* Area supported by each stay *72.75 sq* Working pressure by rules *194 lbs* End plates in steam space:
 Material *Steel* Thickness *7/8"* Pitch of stays *15" x 15"* How are stays secured *double nuts* Working pressure by rules *161 lbs* Material of stays *Steel*
 Diameter at smallest part *2 5/16"* Area supported by each stay *225 sq* Working pressure by rules *187 lbs* Material of Front plates at bottom *Steel*
 Thickness *1/8"* Material of Lower back plate *Steel* Thickness *1/8"* Greatest pitch of stays *14"* Working pressure of plate by rules *190 lbs*
 Diameter of tubes *3"* Pitch of tubes *4 5/8" x 4 3/8"* Material of tube plates *Steel* Thickness: Front *7/8"* Back *1 1/16"* Mean pitch of stays *9"*
 Pitch across wide water spaces *13 1/2"* Working pressures by rules *161 lbs* Girders to Chamber tops: Material *Steel* Depth and
 thickness of girder at centre *7 1/4" x 1 1/2"* Length as per rule *2'-2"* Distance apart *7 1/2"* Number and pitch of stays in each *Two - 8 1/2"*
 Working pressure by rules *228 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 *—*

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

The foregoing is a correct description,

FOR EARLE'S
SHIPBUILDING & ENGINEERING CO. LIMITED.

Manufacturer.

Dates of Survey while building

During progress of work in shops -

During erection on board vessel -

Total No. of visits 47

MANAGER 1906 - May 21 29 Jun 1 8 11 13 18 25 27 July 2 11 17 21 27 Aug 13 16 23 Sep 10 12 18 19

Is the approved plan of main boiler forwarded herewith

donkey

Hull Rpt 2° 18' 40"

Dates of Examination of principal parts—Cylinders 12.11.06 Slides 7.12.06 Covers 12.11.06 Pistons 12.11.06 Rods 26.11.06

Connecting rods 26.11.06 Crank shaft 23.8.06 Thrust shaft 16.8.06 Tunnel shafts Screw shaft 17.11.06 Propeller 17.11.06

Stern tube 17.11.06 Steam pipes tested 21.12.06 Engine and boiler seatings 7.12.06 Engines holding down bolts 28.12.06

Completion of pumping arrangements 17.1.07 Boilers fixed 28.12.06 Engines tried under steam 17.1.07

Main boiler safety valves adjusted 28.12.06 Thickness of adjusting washers 5/16 f 3/8 l.

Material of Crank shaft Steel Identification Mark on Do. 1729 Material of Thrust shaft Steel Identification Mark on Do. 1729

Material of Tunnel shafts Identification Marks on Do. Material of Screw shafts Iron Identification Marks on Do. 1729

Material of Steam Pipes Solid drawn copper Test pressure 400 lbs per sq. inch

General Remarks (State quality of workmanship, opinions as to class, &c. The engines boiler of this vessel have been inspected during construction in accordance with the Society's Rules. The materials and workmanship are sound and good. The boiler tested by hydraulic pressure, and with the engines placed on board and tested under steam, they are now in a good and safe working condition, and respectfully submitted as being eligible in my opinion to be classed with the notation of 1/2 L.M.C. 1.07 in the Register Book.

The above engines and boiler, are similar to those fitted on the "Boote" Hull Rpt 2° 18' 40".

It is submitted that this vessel is eligible for THE RECORD

L.M.C. 1.07.

The amount of Entry Fee. £ 1 : : : When applied for. 22/11/1907

Special .. £ 8 : : : When received. 17/4/1907

Donkey Boiler Fee .. £ - : : : 18/4/1907

Travelling Expenses (if any) £ - : 12 8

Committee's Minute

Assigned

FRI, JAN 25 1907

+ L.M.C. 1.07

James Barclay
Engineer Surveyor to Lloyd's Register of British & Foreign Shipping.
19.1.07



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