

REPORT ON MACHINERY.

No. 22945

Received at London Office

WED. 7 SEP 1910

Date of writing Report 2-9-1910 When handed in at Local Office 2-9-1910. Port of Hull.
 No. in Survey held at Hull. Date, First Survey Feb. 8th Last Survey Sep. 2nd 1910.
 Reg. Book. 4 Supp. on the 5/Trawler. PERICLES (Number of Visits 47.)
 Master Built at Beverley By whom built Hook, Wilton & Gemmell Tons { Gross 208
 Engines made at Hull. By whom made Amos & Smith Ltd. when made 1910
 Boilers made at 5 By whom made 5 when made 5
 Registered Horse Power Owners Hellyer & Son Fishing & Co. Port belonging to Hull.
 Nom. Horse Power as per Section 28 45 Is Refrigerating Machinery fitted for cargo purposes No. Is Electric Light fitted No.

ENGINES, &c.—Description of Engines Inverted triple expansion No. of Cylinders 3 No. of Cranks 3
 Dia. of Cylinders 10-16½-27 Length of Stroke 24 Revs. per minute 104 Dia. of Screw shaft as per rule 7.18 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 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 Length of stern bush 2' 8"
 Dia. of Tunnel shaft as per rule 5.7 Dia. of Crank shaft journals as per rule 5.98 Dia. of Crank pin 6½ Size of Crank webs 23x48 Dia. of thrust shaft under
 collars 6½ Dia. of screw 10.0 Pitch of Screw 8.6 No. of Blades 4 State whether moveable No Total surface 38 ft.
 No. of Feed pumps 1 Diameter of ditto 2½ Stroke 11 Can one be overhauled while the other is at work
 No. of Bilge pumps 1 Diameter of ditto 2½ Stroke 11 Can one be overhauled while the other is at work
 No. of Donkey Engines Two Sizes of Pumps 6x3x6-5x5x5 No. and size of Suctions connected to both Bilge and Donkey pumps
 In Engine Room 2-2 (Ford & Apt.) In Holds, &c. 1-2 Main hold 1-2 Ballast tank
 Separate system suction to after ballast tank. Ejector suction to all holds until discharge duct
 No. of Bilge Injections 1 sizes 1½ Connected to condenser, or to circulating pump London Is a separate Donkey Suction fitted in Engine room & size 2½
 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 Hold & Ballast 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 25.6.10 of Stern Tube 25.6.10 Screw shaft and Propeller 25.6.10
 Is the Screw Shaft Tunnel watertight None Is it fitted with a watertight door worked from

BOILERS, &c.—(Letter for record 5) Manufacturers of Steel Phoenix & Co. Horndale
 Total Heating Surface of Boilers 750 ft. Is Forced Draft fitted No. No. and Description of Boilers 1 S.E. Multitubular
 Working Pressure 200 lbs. Tested by hydraulic pressure to 400 lbs. Date of test 2.7.10 No. of Certificate 1754
 Can each boiler be worked separately Area of fire grate in each boiler 25.5 ft. No. and Description of Safety Valves to
 each boiler 2 Spring loaded Area of each valve 3.14 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" Mean dia. of boilers 10.7 Length 9.33 Material of shell plates Steel
 Thickness 3/32 Range of tensile strength 28-32 Are the shell plates welded or flanged No Descrip. of riveting: cir. seams SH Lap
 long. seams DBSS rivets Diameter of rivet holes in long. seams 18 Pitch of rivets 7.59 Lap of plates or width of butt straps 16½
 Per centages of strength of longitudinal joint rivets 101 Working pressure of shell by rules 201 Size of manhole in shell 16x12
 plate 85.17 Size of compensating ring 40x30x3/32 No. and Description of Furnaces in each boiler 2 plain Material Steel Outside diameter 2' 11 1/32
 Length of plain part top 67 Thickness of plates crown 3/4 Description of longitudinal joint welded No. of strengthening rings
 bottom 62 bottom 3/4 Working pressure of furnace by the rules 228 Combustion chamber plates: Material Steel Thickness: Sides 3/32 Back 4/6 Top 4/6 Bottom 3/32
 Pitch of stays to ditto: Sides 8½x8½ Back 8½x8 Top 8½x7½ If stays are fitted with nuts or riveted heads Nuts Working pressure by rules 239
 Material of stays Steel Diameter at smallest part 1½x206 Area supported by each stay 74.3 Working pressure by rules 249 End plates in steam space:
 Material Steel Thickness 5/16 Pitch of stays 13½x12½ How are stays secured SH washer Working pressure by rules 246 Material of stays Steel
 Diameter at smallest part 2½x4 Area supported by each stay 169 Working pressure by rules 252 Material of Front plates at bottom Steel
 Thickness 5/16 Material of Lower back plate Steel Thickness 5/16 Greatest pitch of stays 14x8 Working pressure of plate by rules 234
 Diameter of tubes 3½ Pitch of tubes 4½x4½ Material of tube plates Steel Thickness: Front 5/16 Back 3/8 Mean pitch of stays 9½x9
 Pitch across wide water spaces 13½ Working pressures by rules 202 Girders to Chamber tops: Material Steel Depth and
 thickness of girder at centre 8½x1½ Length as per rule 2.6 7/8 Distance apart 7½ Number and pitch of stays in each 2-8½
 Working pressure by rules 246 Superheater or Steam chest; how connected to boiler None 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 top & two bottom end connecting rods bolts nuts, two main bearing bolts, one set of coupling bolts & nuts, one set of feed & high pump valves, one main & one donkey feed check valve assorted bolts nuts etc.*

FOR AMOS & SMITH LTD.

The foregoing is a correct description,

Manufacturer.

W. I. Hide

Managing Director.

W. I. Hide

Dates of Survey while building
 During progress of work in shops— 1910—Feb 8, 10, 16, 18, 24 Mar 3, 9, 17, 18, 23, 31, Apr 5, 8, 13, 16, 20, 22, 26, 30 May 4, 10, 14, 19, 25, 28
 During erection on board vessel— Jun 2, 6, 9, 14, 17, 18, 21, 24, 25, 28 July 2, 15, 19, 25, 28 Aug 4, 10, 12, 16, 19, 23 Sep 2
 Total No. of visits 47

Is the approved plan of main boiler forwarded herewith *RM 22848*

Dates of Examination of principal parts—Cylinders 10.5.10 Slides 21.6.10 Covers 28.5.10 Pistons 28.5.10 Rods 28.5.10
 Connecting rods 28.5.10 Crank shaft 19.5.10 Thrust shaft 19.5.10 Tunnel shafts ✓ Screw shaft 19.5.10 Propeller 18.6.10
 Stern tube 21.6.10 Steam pipes tested 16.8.10 Engine and boiler seatings 25.6.10 Engines holding down bolts 16.8.10
 Completion of pumping arrangements 2.9.10 Boilers fixed 16.8.10 Engines tried under steam 19.8.10
 Main boiler safety valves adjusted 19.8.10 Thickness of adjusting washers $5\frac{1}{32}$ P $\frac{3}{8}$
 Material of Crank shaft *Steel* Identification Mark on Do. *668* Material of Thrust shaft *Steel* Identification Mark on Do. *19.5.10*
 Material of Tunnel shafts ✓ Identification Marks on Do. ✓ Material of Screw shafts *Iron* Identification Marks on Do. *668, 19.5.10*
 Material of Steam Pipes *Solid drawn copper* ✓ Test pressure *400 lbs* ✓

General Remarks (State quality of workmanship, opinions as to class, &c. *The machinery & boiler of this vessel have been constructed under Special Survey, they are of good material & workmanship have been fitted & secured in accordance with the Rules. They are now in good order & eligible in my opinion to have record of T.L.M.C. 9-10 in the Register Book.*

It is submitted that this vessel is eligible for THE RECORD. + LMC 9.10.

The amount of Entry Fee £ 1 : 0 : 0 When applied for, 6-9-1910
 Special .. £ 8 : 0 : 0
 Donkey Boiler Fee .. £ : : :
 Travelling Expenses (if any) £ : 2 : 0 When received, 30-9-1910

Committee's Minute

Assigned

FRI. 9 SEP 1910

+ time 9.10

John W. Gwynne
 Engineer, Surveyor to Lloyd's Register of British & Foreign Shipping.



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Lloyd's Register Foundation

These particulars
 Signal Letters

Official Number	129283
No., Date, and Port	
Whether British or Foreign Built	
British	
Number of Decks	
Number of Masts	
Rigged	
Stern	
Build	
Galleries	
Head	
Framework and vessel	
Number of Bulkheads	
Number of water tanks and their capacity	

No. of sets of Engines	Description of Engines
One	reciprocating
No. of Shafts	Particulars
One	Description, Number, Iron or Steel, Loaded Pressure

Gross Tonnage	
Under Tonnage Deck	
Space or spaces between	
Turret or Tank	
Forecastle	
Bridge space	
Poop or Break	
Side Houses	
Deck Houses	
Chart Houses	
Spaces for machinery	
Section 78 (2) of the Act of 1894	
Excess of Hatchways	
Gross Tonnage Deductions, as per Certificate	
Registered	

NOTE.—The only space

Name of Master	
No. of Owners	
Name, Residence, and business of	
Manager	

Dated 6th

30 (65181) Wt. 5356/65