

Date of writing Report Aug 16 1911 When handed in at Local Office 16-8-10 11 Port of Hull  
 No. in Survey held at Hull Date, First Survey Mar 8<sup>th</sup> Last Survey Aug 16<sup>th</sup> 1911  
 Reg. Book. Suff on the Hawker PAMELA (Number of Visits 38) Tons Gross 331 Net 142  
 Master Built at Boulogne By whom built Wm. W. & G. Gemmell When built 1911  
 Engines made at Hull By whom made Amos Smith & Co. when made 5  
 Boilers made at 5 By whom made 5 when made 5  
 Registered Horse Power - Owners Humber Steam Trawling & Co. Ltd. Port belonging to Hull  
 Nom. Horse Power as per Section 28 85 Is Refrigerating Machinery fitted for cargo purposes No Is Electric Light fitted Yes

ENGINES, &c.—Description of Engine Triple expansion No. of Cylinders 3 No. of Cranks 3  
 Dia. of Cylinders 13"-22½"-37" Length of Stroke 24" Revs. per minute 7.62 Dia. of Screw shaft 8" Material of screw shaft Steel  
 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 36"  
 Dia. of Tunnel shaft 6.8" Dia. of Crank shaft journals 7.15" Dia. of Crank pin 7½" Size of Crank webs 4½" x 4½" Dia. of thrust shaft under  
 collars 7½" Dia. of screw 9¼" Pitch of Screw 10'9" No. of Blades 4 State whether moveable No Total surface 294  
 No. of Feed pumps one Diameter of ditto 27" Stroke 12" Can one be overhauled while the other is at work ✓  
 No. of Bilge pumps one Diameter of ditto 27" Stroke 12" Can one be overhauled while the other is at work ✓  
 No. of Donkey Engines one Sizes of Pumps 6" x 3" x 6" No. and size of Suctions connected to both Bilge and Donkey pumps  
 In Engine Room 1-2" (Ford) In Holds, &c. 7-2" (Hull and span for steam, main hold)  
 No. of Bilge Injections 1 sizes 3" Connected to condenser, or to circulating pump pump Is a separate Donkey Suction fitted in Engine room & size 2" Geyser  
 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 Below  
 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 Hot 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 29.5.11 of Stern Tube 29.5.11 Screw shaft and Propeller 29.5.11  
 Is the Screw Shaft Tunnel watertight None Is it fitted with a watertight door ✓ worked from ✓

BOILERS, &c.—(Letter for record S) Manufacturers of Steel Phoenix & Herd  
 Total Heating Surface of Boilers 1390 Is Forced Draft fitted No No. and Description of Boilers 1 SE. Mueschke  
 Working Pressure 200 lb. Tested by hydraulic pressure to 400 lb. Date of test 18.7.11 No. of Certificate 1833  
 Can each boiler be worked separately ✓ Area of fire grate in each boiler 46.25 No. and Description of Safety Valves to  
 each boiler 2 Spring loaded Area of each valve 4.9" Pressure to which they are adjusted 205 lb. Are they fitted with easing gear Yes  
 Smallest distance between boilers or uptakes and bunkers or woodwork 7" Mean dia. of boilers 13'0" Length 10'6" Material of shell plates Steel  
 Thickness 1½" Range of tensile strength 29-33 Are the shell plates welded or flanged No Descrip. of riveting: cir. seams SA Lys  
 long. seams SA Lys Diameter of rivet holes in long. seams 1½" Pitch of rivets 8" Lap of plates or width of butt straps 17½"  
 Per centages of strength of longitudinal joint rivets 85.5 Working pressure of shell by rules 201 Size of manhole in shell 16 x 12"  
 Size of compensating ring 40 x 30 x 1½" No. and Description of Furnaces in each boiler 3 plain Material Steel Outside diameter 3'2½"  
 Length of plain part 5'2" Thickness of plates 1½" Description of longitudinal joint Welded No. of strengthening rings ✓  
 Working pressure of furnace by the rules 210 Combustion chamber plates: Material Steel Thickness: Sides 1½" Back 23" Top 1½" Bottom 1½"  
 Pitch of stays to ditto: Sides 8½" x 9½" Back 8½" x 9½" Top 8½" x 9" If stays are fitted with nuts or riveted heads Yes Working pressure by rules 202  
 Material of stays Steel Diameter at smallest part 1½" Area supported by each stay 80.6 Working pressure by rules 230 End plates in steam space:  
 Material Steel Thickness 1½" Pitch of stays 14½"-17" How are stays secured Welded Working pressure by rules 213 Material of stays Steel  
 Diameter at smallest part 6" Area supported by each stay 24.6 Working pressure by rules 284 Material of Front plates at bottom Steel  
 Thickness 1½" Material of Lower back plate Steel Thickness 1½" Greatest pitch of stays 14 x 8½" Working pressure of plate by rules 227  
 Diameter of tubes 3½" Pitch of tubes 4½" x 4½" Material of tube plates Steel Thickness: Front 1½" Back 1½" Mean pitch of stays 9½"  
 Pitch across wide water spaces 14" Working pressures by rules 202 Girders to Chamber tops: Material Steel Depth and  
 thickness of girder at centre 9½" x 1½" Length as per rule 2'10" Distance apart 9½" Number and pitch of stays in each 30 8½"  
 Working pressure by rules 204 Superheater or Steam chest; how connected to boiler Yes Can the superheater be shut off and the boiler worked  
 separately ✓ Diameter 14" Length 14" Thickness of shell plates 1½" Material Steel Description of longitudinal joint Welded Diam. of rivet  
 holes 1½" Pitch of rivets 8" Working pressure of shell by rules 202 Diameter of flue 14" Material of flue plates Steel Thickness 1½"  
 If stiffened with rings ✓ Distance between rings 14" Working pressure by rules 202 End plates: Thickness 1½" How stayed Welded  
 Working pressure of end plates 202 Area of safety valves to superheater 202 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 \_\_\_\_\_ Radius of do. \_\_\_\_\_ 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 beam bolts nuts, one set of coupling bolts nuts one set of feed & bly pump valves, one set of air pump valves, one main & one donkey feed check valve, assorted bolts nuts.*

The foregoing is a correct description,

FOR AMOS & SMITH LTD.

Manufacturer.

Dates of Survey while building: During progress of work in shops: 1911—Mar 8. 27 Apr 24. May 2. 11. 1911. Managing Director: May 25. 29. 31. Jun 7. 12. 13. 16. 21. 24. 27. 30. During erection on board vessel: July 3. 7. 8. 10. 14. 15. 17. 18. 19. 21. 24. 25. 26. 28. Aug 1. 3. 4. 8. 9. 11. 16. Total No. of visits: 38

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

Dates of Examination of principal parts—Cylinders 21. 6. 11 Slides 19. 7. 11 Covers 21. 6. 11 Pistons 18. 7. 11 Rods 18. 7. 11 Connecting rods 8. 7. 11 Crank shaft 19. 7. 11 Thrust shaft 19. 5. 11 Tunnel shafts ✓ Screw shaft 19. 5. 11 Propeller 19. 5. 11 Stern tube 19. 5. 11 Steam pipes tested 28. 7. 11 Engine and boiler seatings 12. 6. 11 Engines holding down bolts 24. 7. 11 Completion of pumping arrangements 16. 8. 11 Boilers fixed 24. 7. 11 Engines tried under steam 4. 8. 11 Main boiler safety valves adjusted 4. 8. 11 Thickness of adjusting washers *5 3/8 P 7/16* Material of Crank shaft *Steel* Identification Mark on Do. *19. 7. 11* Material of Thrust shaft *Steel* Identification Mark on Do. *19. 5. 11* Material of Tunnel shafts ✓ Identification Marks on Do. *19. 5. 11* Material of Screw shafts *Steel* Identification Marks on Do. *19. 5. 11* 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, are of good material workmanship & have been fitted & secured in accordance with the Rules. They are now in good working condition & are respectfully submitted as being eligible in my opinion to have record of 1st L.M.C. 8-11 in the Register Book*

It is submitted that this vessel is eligible for 1st RECORD. + L.M.C. 8-11

*J.W. Gwynne*  
4/9/11

The amount of Entry Fee .. £ / : 0.0. When applied for, Special .. £ 12 15 0 29. 8. 19. 11. Donkey Boiler Fee .. £ : : When received, Travelling Expenses (if any) £ : 2 0. 31. 8. 19. 11.

Committee's Minute

Assigned

TUE SEP 5—1911

*Thurs 8. 11*

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



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