

Date of writing Report Aug 16 1911 When handed in at Local Office 16-8-11 Port of Hull
No. in Survey held at Hull Date, First Survey Mar 8th Last Survey Aug 16th 1911
Reg. Book. Suff on the Trawler PAMELA (Number of Visits 38) Gross 331 Net 142
Master Built at Beaulieu By whom built Cook, Weston & Gemmill 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"-22 1/2"-37" Length of Stroke 24" Revs. per minute Dia. of Screw shaft as per rule 7.62 as fitted 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 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 6.8 as fitted 7.5-7.2 Dia. of Crank shaft journals as per rule 7.15 as fitted 7.2 Dia. of Crank pin 7 1/2" Size of Crank webs 4 1/2" x 4 1/2" Dia. of thrust shaft under
collars 7 1/2" Dia. of screw 9/4" Pitch of Screw 10'9" No. of Blades 4 State whether moveable No Total surface 29#
No. of Feed pumps one Diameter of ditto 27" Stroke 12" Can one be overhauled while the other is at work No
No. of Bilge pumps one Diameter of ditto 27" Stroke 12" Can one be overhauled while the other is at work No
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 com, main hold
Hull and fore hold, hull and stow hold, 2" system suction to all holds with discharge to deck
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" system
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 No
Are all connections with the sea direct on the skin of the ship Yes Are they Valves or Cocks Box
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
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 No worked from No

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. Multitubular
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 No 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 1 5/32" Range of tensile strength 29-33 Are the shell plates welded or flanged No Descrip. of riveting: cir. seams SA Riv
long. seams 5/16" Dia. Diameter of rivet holes in long. seams 1 5/32" Pitch of rivets 8" Lap of plates or width of butt straps 17 1/2"
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 1 5/32" No. and Description of Furnaces in each boiler 3 plain Material Steel Outside diameter 3-2 3/4"
Length of plain part top 5' 7/8" bottom 5' 2" Thickness of plates crown 1/4" bottom 1/4" Description of longitudinal joint welded No. of strengthening rings No
Working pressure of furnace by the rules 210 Combustion chamber plates: Material Steel Thickness: Sides 4/16" Back 23/32" Top 7/16" Bottom 13/16"
Pitch of stays to ditto: Sides 8 1/2" x 9 1/2" Back 8 1/2" x 9 1/2" Top 8 1/2" x 9" If stays are fitted with nuts or riveted heads No Working pressure by rules 202
Material of stays Steel Diameter at smallest part 3/4" 206 Area supported by each stay 80.6 Working pressure by rules 230 End plates in steam space:
Material Steel Thickness 1/16" Pitch of stays 14 1/2"-17" How are stays secured No Working pressure by rules 213 Material of stays Steel
Diameter at smallest part 6.1 Area supported by each stay 226 Working pressure by rules 282 Material of Front plates at bottom Steel
Thickness 1/16" Material of Lower back plate Steel Thickness 1/16" Greatest pitch of stays 14 x 8 1/2" Working pressure of plate by rules 227
Diameter of tubes 3 1/2" Pitch of tubes 4 3/4" x 4 3/4" Material of tube plates Steel Thickness: Front 1/16" Back 7/8" Mean pitch of stays 9 1/2"
Pitch across wide water spaces 14 Working pressures by rules 202 Girders to Chamber tops: Material Steel Depth and
thickness of girder at centre 9 1/2" x 1 3/4" Length as per rule 2' 10" Distance apart 9 1/2" Number and pitch of stays in each 30 8 1/2"
Working pressure by rules 204 Superheater or Steam chest; how connected to boiler No 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 _____ 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 rod bolts nuts, two main beam bolts nuts, one set of coupling bolts nuts one set of feed & blye pump valves, one set of air pump valves, one main & one donkey feed check valve, assorted bolt nuts.*

The foregoing is a correct description, **FOR AMOS & SMITH LTD.**

Manufacturer. *Amos & Smith*

Dates of Survey while building: During progress of work in shops -- *1911 - Mar 8, 27, Apr 24, May 2, 11, 19* / *per J.P.* 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* / *per J.P.* *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*

" " " donkey " " "

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 *S³ P⁷/₆*

Material of Crank shaft *Steel* Identification Mark on Do. *696 19.7.11* Material of Thrust shaft *Steel* Identification Mark on Do. *696 19.5.11*

Material of Tunnel shafts ✓ Identification Marks on Do. *696 19.5.11* Material of Screw shafts *Steel* Identification Marks on Do. *696 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, and 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 L.M.C. 8-11 in the Register Book*

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

J.P. 4/9/11

The amount of Entry Fee .. £ / : *00* When applied for, _____

Special .. £ /2 : *15 0* *29.8.19.11*

Donkey Boiler Fee .. £ : _____ When received, *MR*

Travelling Expenses (if any) £ : *2 0* *31-8.19.11*

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

Committee's Minute

TUE SEP 5 - 1911

Assigned

Thurs 8.11



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