

REPORT ON MACHINERY.

No. 19587

Port of *Hull*

Received at London Office

THUR. 14 NOV 1907

No. in Survey held at *Hull*Date, first Survey *May 30th* Last Survey *Oct 30th 1907*

Reg. Book.

11 Supp on the *1/2 Trawler "ROSE"*(Number of Visits *32*)Tons { Gross *213*
Net *102*

Master

Built at *Selly*By whom built *Bochane & Sons*When built *1907*Engines made at *Hull*By whom made *Chas. D. Holmes & Co*when made *1907*Boilers made at *H*By whom made *H*when made *H*Registered Horse Power *65*Owners *A & R Osborne*Port belonging to *Primrose*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

No. of Cylinders *3*No. of Cranks *3*Dia. of Cylinders *12-21-34*Length of Stroke *21*Revs. per minute *112*Dia. of Screw shaft as per rule *6.9*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 *Yes*

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 *Yes*

If two

liners are fitted, is the shaft lapped or protected between the liners *Yes*Length of stern bush *31*Dia. of Tunnel shaft as per rule *6.5*Dia. of Crank shaft journals as per rule *6.5*Dia. of Crank pin *6.5*Size of Crank webs *17x4*collars *6.5*Dia. of screw *8-6*Pitch of Screw *11-0*No. of Blades *4*State whether moveable *No*Total surface *27 1/2*No. of Feed pumps *1*Diameter of ditto *2 1/2*Stroke *24*Can one be overhauled while the other is at work *Yes*No. of Bilge pumps *1*Diameter of ditto *2 1/2*Stroke *24*Can one be overhauled while the other is at work *Yes*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. *2-2 (Starboard, Main hold)**2" Separation system suction from starboard & discharge on deck.*No. of Bilge Injections *1*sizes *2 1/2*Connected to condenser, or to circulating pump *Yes*Is a separate Donkey Suction fitted in Engine room & size *2 1/2" 1/2"*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 *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 *24.7.07*of Stern Tube *24.7.07*Screw shaft and Propeller *24.7.07*Is the Screw Shaft Tunnel watertight *None*Is it fitted with a watertight door *Yes*worked from *Yes*BOILERS, &c.—(Letter for record *8*)Manufacturers of Steel *Messrs Wm Braman & Co Ltd*Total Heating Surface of Boilers *1065*Is Forced Draft fitted *No*No. and Description of Boilers *1 S.E. Mather & Platt*Working Pressure *180 lb*Tested by hydraulic pressure to *360*Date of test *18.10.07*No. of Certificate *1603*Can each boiler be worked separately *Yes*Area of fire grate in each boiler *32 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 lb*Are they fitted with easing gear *Yes*Smallest distance between boilers or uptakes and bunkers or woodwork *6"*

EXT

Mean dia. of boilers *12-0"*Length *10-0"*Material of shell plates *Steel*Thickness *1"*Range of tensile strength *28-32*Are the shell plates welded or flanged *No*Descrip. of riveting: cir. seams *3/8" Lap*long. seams *3/8" Lap*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*plate *85.2*Working pressure of shell by rules *180 lb*Size of manhole in shell *16" x 12"*Size of compensating ring *7" x 1"*No. and Description of Furnaces in each boiler *2 plain*Material *Steel*Outside diameter *42"*Length of plain part *5-10"*Thickness of plates *3/4"*crown *3/4"*Description of longitudinal joint *Welded*No. of strengthening rings *Yes*Working pressure of furnace by the rules *180*Combustion chamber plates: Material *Steel*Thickness: Sides *2 1/2"*Back *4"*Top *2 1/2"*Bottom *2 1/2"*Pitch of stays to ditto: Sides *9x8 1/2"*Back *9x8 1/2"*Top *8 1/2x8 1/2"*If stays are fitted with nuts or riveted heads *None*Working pressure by rules *213*Material of stays *Steel*Diameter at smallest part *1 1/2"*Area supported by each stay *105"*Working pressure by rules *204*End plates in steam space: *None*Material *Steel*Thickness *1 1/2"*Pitch of stays *16x16"*How are stays secured *3/8" nuts*Working pressure by rules *196*Material of stays *Steel*Diameter at smallest part *5 1/2"*Area supported by each stay *256"*Working pressure by rules *225*Material of Front plates at bottom *Steel*Thickness *3/4"*Material of Lower back plate *Steel*Thickness *1 1/2"*Greatest pitch of stays *15x9"*Working pressure of plate by rules *198*Diameter of tubes *7 1/2"*Pitch of tubes *4 1/2x4 1/2"*Material of tube plates *Steel*Thickness: Front *3/4"*Back *7/8"*Mean pitch of stays *9 1/2"*Pitch across wide water spaces *15"*Working pressures by rules *180*Girders to Chamber tops: Material *Iron*

Depth and

thickness of girder at centre *8 1/2x1 1/2"*Length as per rule *2-8"*Distance apart *8"*Number and pitch of stays in each *30 8 1/2"*Working pressure by rules *196*Superheater or Steam chest; how connected to boiler *None*

Can the superheater be shut off and the boiler worked

separately *Yes*

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

Yes

Working pressure of end plates

Area of safety valves to superheater

Are they fitted with easing gear

Yes

Working pressure of end plates

Area of safety valves to superheater

Are they fitted with easing gear

Yes

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Yes

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Area of safety valves to superheater

Are they fitted with easing gear

Yes

Working pressure of end plates

Area of safety valves to superheater

Are they fitted with easing gear

Yes

Working pressure of end plates

Area of safety valves to superheater

Are they fitted with easing gear

Yes

VERTICAL DONKEY BOILER— Manufacturers of Steel

No.	Description	When made	Where fixed
Made at	By whom made		
Working pressure	tested by hydraulic pressure to	Date of test	No. of Certificate
Valves	No. of Safety Valves	Area of each	Pressure to which they are adjusted
If fitted with casing gear	If steam from main boilers can enter the donkey boiler	Date of adjustment	
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
Working pressure of shell by rules	Thickness of shell crown plates	Radius of do.	No. of stays to do.
Diameter of furnace Top	Bottom	Length of furnace	Thickness of furnace plates
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, two main bearing bolts, one set of coupling bolts & nuts, one set of feed & side pump valves, one main & one donkey feed check valves, assorted bolts & nuts.*

The foregoing is a correct description,

PER PRO CHARLES D. HOLMES & Co.

Manufacturer.

H. Allon
 Dates of Survey while building
 During progress of work in shops— 1907. - May 30. June 6. 14. 27. 28. Jul 9. 12. 24. 26. 30. Aug 9. 20. 28. Sep 5. 13. 14. 17.
 During erection on board vessel - - Sep 21. 25. 28. Oct 1. 5. 7. 9. 14. 15. 18. 19. 24. 25. 28. 30.
 Total No. of visits 32

Is the approved plan of main boiler forwarded herewith 19545R

Dates of Examination of principal parts—Cylinders 1.10.07 Slides 18.10.07 Covers 18.10.07 Pistons 9.10.07 Rods 18.10.07
 Connecting rods 15.10.07 Crank shaft 19.10.07 Thrust shaft 19.10.07 Tunnel shafts ✓ Screw shaft 12.7.07 Propeller 12.7.07
 Stern tube 12.7.07 Steam pipes tested 25.10.07 Engine and boiler seatings 24.7.07 Engines holding down bolts.
 Completion of pumping arrangements 28.10.07 Boilers fixed 24.10.07 Engines tried under steam 28.10.07
 Main boiler safety valves adjusted 28.10.07 Thickness of adjusting washers $F \frac{3}{8}$ A $\frac{3}{8}$
 Material of Crank shaft *Iron* Identification Mark on Do. 352.746 19.10.07 Material of Thrust shaft *Iron* Identification Mark on Do. 352.746 19.10.07
 Material of Tunnel shafts Identification Marks on Do. ✓ Material of Screw shafts *Iron* Identification Marks on Do. 352.746 12.7.07
 Material of Steam Pipes *Solid drawn copper* Test pressure 360 lbs. ✓

General Remarks (State quality of workmanship, opinions as to class, &c. *The machinery & trials of this vessel have been continuous under Special Survey, and 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 L.M.C. 10.07.*

It is submitted that this vessel is eligible for THE RECORD. L.M.C. 10.07.

JHC 14-11-07

14.11.07

The amount of Entry Fee. £ 1 : : :
 Special £ 10 : 4 : :
 Donkey Boiler Fee £ : : :
 Travelling Expenses (if any) £ : 8 : 2

When applied for.

13/11/07

When received.

29/11/07

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

Committee's Minute

FRI. 15 NOV 1907

Assigned

+ L.M.C. 10.07

MACHINERY
 WRITTEN



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 Foundation