

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 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

Triple

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 Yes

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

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 6.2

Size of Crank webs 27x47 Dia. of thrust shaft under collars 6.2

Dia. of screw 8-6

Pitch of Screw 11-0

No. of Blades 4

State whether moceable Yes

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" Separate 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" 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 Beardmore & Co Ltd

Total Heating Surface of Boilers 1065

Is Forced Draft fitted No

No. and Description of Boilers 1 S.E. 9Mushroom

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

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 S.R. Lap

long. seams S.B.L. single

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 top 5-10

bottom 5-3 1/2

Thickness of plates crown 3 1/2

bottom 3 1/2

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 3 1/2

Bottom 3 1/2

Pitch of stays to ditto: Sides 9 x 8 1/2

Back 9 x 8 1/2

Top 8 1/2 x 8

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 16 x 16

How are stays secured S.R. hook

Working pressure by rules 196

Material of stays Steel

Diameter at smallest part 5.79

Area supported by each stay 256

Working pressure by rules 225

Material of Front plates at bottom Steel

Thickness 3 1/2

Material of Lower back plate Steel

Thickness 1 1/2

Greatest pitch of stays 15 x 9

Working pressure of plate by rules 198

Material of tube plates Steel

Thickness: Front 3 1/2

Back 3

Mean pitch of stays 9 1/2

Diameter of tubes 7 1/2

Pitch of tubes 4 1/2 x 4 1/2

Material of tube plates Steel

Thickness: Front 3 1/2

Back 3

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 1/2 x 1 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

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 casing 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 _____ Rivets _____

Dia. of rivet holes _____ Whether punched or drilled _____ Pitch of rivets _____ Lap of plating _____ Per centage of strength of joint _____ 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 & siph 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 19545/11

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 18.10.07 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. 352.7.H.G 19.10.07 Material of Thrust shaft *Iron* Identification Mark on Do. 352.7.H.G 19.10.07
 Material of Tunnel shafts ✓ Identification Marks on Do. ✓ Material of Screw shafts *Iron* Identification Marks on Do. 352.7.H.G 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 examined under Special Survey, all 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.

J.P.C. 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
 Assigned

FRI. 15 NOV 1907

+ L.M.C. 10.07



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MACHINER... WRITTEN

Certificate (if required) to be sent to

The Surveyors are requested not to write on or below the space for Committee's Minute.