

Rpt. 4.

REPORT ON MACHINERY

No. 20992

SAT. 13 MAR 1909

Port of

Hull.

Received at London Office

19

No. in Survey held at

Hull.

Date, first Survey

Nov 28/08

Last Survey

Mar. 5th 1909

Reg. Book.

77 Hull on the

S. Haul - SCOMBER

(Number of Visits 28)

Master

Built at

Selby

By whom built

Locke & Sons

Tons

Gross 270

Net 102

When built

1909

Engines made at

Hull.

By whom made

C. D. Holmes & Co.

when made

5

Boilers made at

5

By whom made

5

when made

5

Registered Horse Power

1

Owners

Mount Sham Fishing Co. Ltd.

Port belonging to

Hutton

Nom. Horse Power as per Section 28

77

Is Refrigerating Machinery fitted for cargo purposes

No

Is Electric Light fitted

No

ENGINES, &c.—Description of Engines

Mounted Triple Expansion

No. of Cylinders

3

No. of Cranks

3

Dia. of Cylinders

13-22-36

Length of Stroke

26

Revs. per minute

110

Dia. of Screw shaft

as per rule 7.61

Material of

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 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

liners are fitted, is the shaft lapped or protected between the liners

Length of stern bush

36

Dia. of Tunnel shaft

as per rule 6.74

Dia. of Crank shaft journals

as per rule 7.07

Dia. of Crank pin

7.5

Size of Crank webs

14x14

Dia. of thrust shaft under

collars

7 1/2

Dia. of screw

9 1/2

Pitch of Screw

11-3

No. of Blades

4

State whether moveable

No

Total surface

34 sq

No. of Feed pumps

2

Diameter of ditto

28

Stroke

26

Can one be overhauled while the other is at work

No. of Bilge pumps

2

Diameter of ditto

28

Stroke

26

Can one be overhauled while the other is at work

No. of Donkey Engines

one

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

(For 1st & 2nd)

In Holds, &c.

2-2

(For hold & 1st & 2nd well)

2" Glycerine suction in all holds with discharge on 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 1/2" Glycerine

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

Yes

How are they protected

Wood casing

Yes

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

21.12.08

of Stern Tube

21.12.08

Screw shaft and Propeller

21.12.08

Is the Screw Shaft Tunnel watertight

None

Is it fitted with a watertight door

Yes

worked from

BOILERS, &c.—(Letter for record S)

Manufacturers of Steel

Steel

Steel & of Scotland

Total Heating Surface of Boilers

275 sq

Is Forced Draft fitted

No

No. and Description of Boilers

1

S.E. Multitubular

Working Pressure

180 lbs

Tested by hydraulic pressure to

360

Yes

Date of test

20.2.09

No. of Certificate

1689

Can each boiler be worked separately

Yes

Area of fire grate in each boiler

45 sq

No. and Description of Safety Valves to

each boiler

1 Spring loaded

Area of each valve

4.9 sq

Pressure to which they are adjusted

185

Are they fitted with easing gear

Yes

Smallest distance between boilers or uptakes and bunkers or woodwork

16

Mean dia. of boilers

13.6

Length

10.9

Material of shell plates

Steel

Thickness

1/8

Range of tensile strength

28-32

Are the shell plates welded or flanged

No

Descrip. of riveting: cir. seams

SA Lap

long. seams

SA Lap

Diameter of rivet holes in long. seams

1 3/16

Pitch of rivets

8

Lap of plates or width of butt straps

18

Per centages of strength of longitudinal joint

rivets 90

plate 85

Working pressure of shell by rules

183

Size of manhole in shell

16 x 12

Size of compensating ring

7 x 1 1/2

No. and Description of Furnaces in each boiler

3 Plain

Material

Steel

Outside diameter

3.2

Length of plain part

top 7.8

bottom 7.6

Thickness of plates

crown 1 1/2

bottom 1 1/2

Description of longitudinal joint

welded

No. of strengthening rings

one

Working pressure of furnace by the rules

187

Combustion chamber plates: Material

Steel

Thickness: Sides

4/8

Back

3/8

Top

4/8

Bottom

4/8

Pitch of stays to ditto: Sides

9 1/2 x 9 1/2

Back

9 1/2 x 9 1/2

Top

9 1/2 x 9 1/2

If stays are fitted with nuts or riveted heads

Yes

Working pressure by rules

186

Material of stays

Steel

Diameter at smallest part

1 1/2

Area supported by each stay

108

Working pressure by rules

199

End plates in steam space:

Material

Steel

Thickness

1 1/4

Pitch of stays

20 x 20

How are stays secured

SA wash

Working pressure by rules

185

Material of stays

Steel

Diameter at smallest part

7.9

Area supported by each stay

408

Working pressure by rules

205

Material of Front plates at bottom

Steel

Thickness

1

Material of Lower back plate

Steel

Thickness

7/8

Greatest pitch of stays

14 1/2 x 9

Working pressure of plate by rules

183

Diameter of tubes

2 1/2

Pitch of tubes

5 x 5

Material of tube plates

Steel

Thickness: Front

1

Back

7/8

Mean pitch of stays

10

Pitch across wide water spaces

13 1/2

Working pressures by rules

189

Girders to Chamber tops: Material

Steel

Depth and

thickness of girder at centre

10 x 2

Length as per rule

3-2

Distance apart

9 1/2

Number and pitch of stays in each

209 1/2

Working pressure by rules

194

Superheater or Steam chest; how connected to boiler

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

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 rod bolts & nuts, two main bearing bolts, one set of coupling bolts & nuts, one set of feed & high pump valves, one set of air & circulating pump valves, one main & one donkey feed check valve, assorted bolts & nuts etc.*

The foregoing is a correct description,
CHARLES D. HOLMES & Co. Ltd. Manufacturer.

Harold J. Sheardson DIRECTOR.
 Dates of Survey while building: During progress of work in shops— 1908:— Nov 28. Dec 2. 4. 9. 11. 16. 17. 18. 21. 22. 24. 1909:— Jan 7. 12. 15. 18. 22.
 During erection on board vessel— Jan 26. 29. Feb 3. 6. 10. 13. 16. 20. 27. Mar 2. 4. 5.
 Total No. of visits 28

Is the approved plan of main boiler forwarded herewith *yes*
 " " " donkey " " " ✓

Dates of Examination of principal parts—Cylinders 31.12.08 Slides 3.2.09 Covers 7.1.09 Pistons 3.2.09 Rods 26.1.09
 Connecting rods 22.1.09 Crank shaft 26.1.09 Thrust shaft 26.1.09 Tunnel shafts ✓ Screw shaft 17.12.08 Propeller 17.12.08
 Stern tube 17.12.08 Steam pipes tested 26.2.09 Engine and boiler seatings 21.12.08 Engines holding down bolts 26.2.09
 Completion of pumping arrangements 5.3.09 Boilers fixed 26.2.09 Engines tried under steam 27.2.09.
 Main boiler safety valves adjusted 27.2.09 Thickness of adjusting washers *4 5/16 F 4*
 Material of Crank shaft *Iron* Identification Mark on Do. *4715.W.G. 26.1.09* Material of Thrust shaft *Iron* Identification Mark on Do. *4715.W.G. 26.1.09*
 Material of Tunnel shafts Identification Marks on Do. ✓ Material of Screw shafts *Iron* Identification Marks on Do. *4715.W.G. 17.12.08*
 Material of Steam Pipes *Solid drawn copper* Test pressure *350 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 on board in accordance with the Rules. They are now in good working condition & eligible in my opinion to have record of 4-L.M.C. 3-09 in the Register Book.*

It is submitted that
 this vessel is eligible for
THE RECORD. + LMC 3.09.

H. J. S.
 13/3/09.

ARK
 13-3-09

The amount of Entry Fee	£	0	0	0	When applied for.
Special	£	11	11	0	12.3.1909
Donkey Boiler Fee	£	0	0	0	When received.
Travelling Expenses (if any)	£	8	2	0	31.3.1909

Committee's Minute **TUES 16 MAR 1909**

Assigned

+ L.M.C. 3.09

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



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 Foundation

Certificate (if required) to be sent to

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