

REPORT ON MACHINERY.

No. 19394

MUN. 16 SEP 1907

Port of Hull

Received at London Office

No. in Survey held at Hull

Date, first Survey Apr. 10.

Last Survey Aug. 28 1907

Reg. Book.

on the

S/Hawer "SOUTHWARD"

(Number of Visits 19)

Master

Built at

Selby

By whom built

Bochane & Sons

Tons Gross 286

Net 121

When built

1907

Engines made at

Hull

By whom made

C & D. Holmes

when made

1907-8

Boilers made at

Hull

By whom made

Hull

when made

H.

Registered Horse Power

Owners

The Foreman Steam Fishing Co. Ltd. Port belonging to Grimsby.

Nom. Horse Power as per Section 28

68.4

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 1/2 x 22 x 35

Length of Stroke

24

Revs. per minute

112

Dia. of Screw shaft

as per rule 7.15

as fitted 7.25

Material of

screw shaft

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

3'-0"

Dia. of Tunnel shaft

as per rule 6.44

as fitted 6.75

Dia. of Crank shaft journals

as per rule 6.7

as fitted 6.7

Dia. of Crank pin

6.7

Size of Crank webs

13 1/2 x 4 1/2

Dia. of thrust shaft under

collars

6.7

Dia. of screw

8.7 1/2

Pitch of Screw

11'-0"

No. of Blades

4

State whether moveable

No

Total surface

28 sq

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

2

SIZES OF PUMPS

2 1/2 x 5

2 1/2 x 4

No. and size of Suctions connected to both Bilge and Donkey pumps

2-2

In Engine Room

2-2

In Holds, &c.

2-2

After 1st hold - 1 1/2, 2nd hold - 1 1/2

2 1/2" Engine suction from air pump & discharge a dead.

No. of Bilge Injections

1

SIZES

2 1/2

Connected to condenser, or to circulating pump

pump

Is a separate Donkey Suction fitted in Engine room & size

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

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

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

What pipes are carried through the bunkers

Hot air suction

How are they protected

Wra 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

27.5.07

of Stern Tube

27.5.07

Screw shaft and Propeller

Is the Screw Shaft Tunnel watertight

None

Is it fitted with a watertight door

Yes

worked from

Yes

BOILERS, &c.—(Letter for record)

Manufacturers of Steel

Schluppingshutte (Germany)

Total Heating Surface of Boilers

1103 sq

Is Forced Draft fitted

No

No. and Description of Boilers

1 S.E. 9M vertical

Working Pressure

180

Tested by hydraulic pressure to

360 lbs.

Date of test

9.8.07

No. of Certificate

1582

Can each boiler be worked separately

Yes

Area of fire grate in each boiler

33 sq

No. and Description of Safety Valves to

each boiler

2 Spring loaded

Area of each valve

3.97

Pressure to which they are adjusted

185 lbs

Are they fitted with easing gear

Smallest distance between boilers or uptakes and bunkers or woodwork

7"

EXT

Mean dia. of boilers

12'-6"

Length

10'-0"

Thickness

1/2"

Range of tensile strength

28-32

Are the shell plates welded or flanged

No

Descrip. of riveting: cir. seams

Long. seams

S.B.S. 5/16"

Diameter of rivet holes in long. seams

1/32"

Pitch of rivets

7"

Lap of plates or width of butt straps

Percentages of strength of longitudinal joint

rivets

86

plate

85.2

Working pressure of shell by rules

180

Size of manhole in shell

16 x 12

Size of compensating ring

7 x 1/2"

No. and Description of Furnaces in each boiler

2

Description of longitudinal joint

welded

No. of strengthening rings

4

Length of plain part

top

bottom

Thickness of plates

crown

Working pressure of furnace by the rules

198

Combustion chamber plates: Material

Steel

Thickness: Sides

3/4"

Back

4/6"

Top

3/4"

Bottom

3/4"

Pitch of stays to ditto: Sides

9 x 8 1/2"

Back

9 x 8 1/2"

Top

8 x 8 1/2"

If stays are fitted with nuts or riveted heads

Yes

Working pressure by rules

207

Material of stays

Steel

Diameter at smallest part

1 1/4"

Area supported by each stay

105 sq

Working pressure by rules

204

End plates in steam space:

Material

Steel

Thickness

1 1/4"

Pitch of stays

16 x 16"

How are stays secured

Material

Steel

Thickness

1 1/4"

Diameter at smallest part

5/8"

Area supported by each stay

256 sq

Working pressure by rules

225

Material of Front plates at bottom

Steel

Thickness

3/4"

Greatest pitch of stays

14 1/2 x 9"

Thickness

3/4"

Material of Lower back plate

Steel

Thickness

1 1/4"

Working pressure of plate by rules

197

Diameter of tubes

3 1/2"

Pitch of tubes

4 1/2 x 4 1/2"

Material of tube plates

Steel

Thickness: Front

3/4"

Pitch across wide water spaces

14 1/2"

Working pressures by rules

180

Girders to Chamber tops: Material

Steel

Depth and

Thickness of girder at centre

8 1/2 x 1 1/2"

Length as per rule

2-8 1/2"

Distance apart

8"

Number and pitch of stays in each

Working pressure by rules

188

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

Pitch of rivets

Working pressure of shell by rules

Diameter of flue

Material of flue plates

Thickness

stiffened with rings

Yes

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

Foundation

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 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
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 & nuts
Two main bearing bolts, one set of coupling bolts & nuts, one set of feed &
large pump valves, Main & donkey feed check valve, Assorted bolts & nuts.

The foregoing is a correct description,

PER PRO CHARLES D. HOLMES & Co.

Manufacturer.

Dates of Survey while building
During progress of work in shops— Apr 10.24, May 7.10.22.24.27.30. June 6.14.28 July 9.12.26.30 Aug 9.
During erection on board vessel— Aug 21.24.28.
Total No. of visits 19.

Is the approved plan of main boiler forwarded herewith

Dates of Examination of principal parts—Cylinders 9.8.07 Slides 17.8.07 Covers 17.8.07 Pistons 30.7.07 Rods 30.7.07
Connecting rods 30.7.07 Crank shaft 9.8.07 Thrust shaft 9.8.07 Tunnel shafts ✓ Screw shaft 24.5.07 Propeller 24.5.07
Stern tube 24.5.07 Steam pipes tested 21.8.07 Engine and boiler seatings 27.5.07 Engines holding down bolts 21.8.07
Completion of pumping arrangements 24.8.07 Boilers fixed 21.8.07 Engines tried under steam 24.8.07
Main boiler safety valves adjusted 24.8.07 Thickness of adjusting washers $F \frac{5}{16}$ A $\frac{5}{16}$
Material of Crank shaft Identification Mark on Do. 337 9.8.07 Material of Thrust shaft Identification Mark on Do. 337 9.8.07
Material of Tunnel shafts Identification Marks on Do. ✓ Material of Screw shafts Identification Marks on Do. 337 9.8.07
Material of Steam Pipes Solid drawn Copper Test pressure 360 lbs.

General Remarks (State quality of workmanship, opinions as to class, &c.)

The engine & 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 and in my opinion eligible to have the notation
of L.M.C 8.07 in the Register Book.

It is submitted that
this vessel is eligible for
THE RECORD.

÷ L.M.C 8.07

The amount of Entry Fee.. £ 1 : 0 : 0
Special £ 10 : 5 : 0
Donkey Boiler Fee £ : :
Travelling Expenses (if any) £ : 9 : 8

When applied for.

14/9/07

When received.

30/9/07

Committee's Minute

Assigned

TUES. 17 SEP 1907

+ L.M.C 8.07

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



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Foundation