

REPORT ON MACHINERY.

No.

9704

Port of *Hull*

THUR 6 JUN 1895

Received at London Office

in Survey held at

Hull

Date, first Survey

Feb 13th

Last Survey

May 10th

1895

Book.

(Number of Visits *12*)

on the

Steam Trawler Robin

Gross Tons *153*
Net Tons *74*

Built at *Hull*

By whom built

Carters & Son

When built *1895*

es made at

Hull

By whom made

Carters & Son

when made *1895*

s made at

Hull

By whom made

Carters & Son

when made *1895*

tered Horse Power

45

Owners *Pioneer S. J. & Co. L^d*

Port belonging to *Grimby*

Horse Power as per Section 28

INES, &c.—

Description of Engines

Triple Comp. Inv & Acting

No. of Cylinders

Three

ter of Cylinders

11" 14" 30"

Length of Stroke

21"

Revolutions per minute

130

Diameter of Screw shaft

as per rule 5.305

ter of Tunnel shaft

as per rule 5 5/8"

Diameter of Crank shaft journals

5 1/2"

Diameter of Crank pin

5 1/2"

Size of Crank webs

6 1/2" x 3 1/8"

ter of screw

7:0"

Pitch of screw

9:3"

No. of blades

4

State whether moveable

No

Total surface

21 sq ft

f Feed pumps

One

Diameter of ditto

2 1/4"

Stroke

10"

Can one be overhauled while the other is at work

Yes

f Bilge pumps

One

Diameter of ditto

3"

Stroke

10"

Can one be overhauled while the other is at work

Yes

f Donkey Engines

One

Sizes of Pumps

3" x 6"

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

ngine Room

One 2"

In Holds, &c.

One 2"

Ejector with suction in the Engine Bilge and discharge on deck

Bilge injections

One sizes 3 1/2"

Connected to condenser, or to circulating pump

Is a separate donkey suction fitted in Engine room & size 1/2" - 1/2" - 1/2"

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

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

Are pipes carried through the bunkers

Suction to Forward

How are they protected

Wood cased

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

Were stern tube, propeller, screw shaft, and all connections examined in dry dock

Now New

Is the screw shaft tunnel watertight

In tunnel

Is it fitted with a watertight door

Yes

worked from

Yes

ELERS, &c.—

(Letter for record *S*)

Total Heating Surface of Boilers

800 sq feet

and Description of Boilers

One Cylindrical Hull

Working Pressure

160 lb.

Tested by hydraulic pressure to

320 lb.

of test

22/4/95

Can each boiler be worked separately

Yes

Area of fire grate in each boiler

28 sq ft

No. and Description of safety valves to

boilers *In Spring loaded*

Area of each valve

3.14 sq in

Pressure to which they are adjusted

165 lb.

Are they fitted

easing gear

Yes

Smallest distance between boilers or uptakes and bunkers or woodwork

10"

Mean diameter of boilers

10:0"

th *9:6"*

Material of shell plates

Steel

Thickness

27/32"

Description of riveting: circum. seams

all on lap

long. seams

all chip all

eter of rivet holes in long. seams

1 3/16"

Pitch of rivets

6 7/8"

Lap of plates or width of butt straps

12 1/2"

Percentages of strength of longitudinal joint

85%

Working pressure of shell by rules

160 lb.

Size of manhole in shell

16" x 12"

of compensating ring

30" x 28" x 27/32"

No. and Description of Furnaces in each boiler

two Plain

Material

Steel

Outside diameter

35"

th of plain part

top 6:0"

Thickness of plates

27/32"

Description of longitudinal joint

welded

No. of strengthening rings

Yes

Working pressure of furnace by the rules

161 lb.

Combustion chamber plates: Material

Steel

Thickness: Sides

9/16"

Back

9/16"

Top

9/16"

Bottom

11/16"

of stays to ditto: Sides

8"

Back

8 1/4"

Top

8"

If stays are fitted with nuts or riveted heads

Yes

Working pressure by rules

161 lb.

Material of stays

Steel

Diameter at smallest part

1 3/8"

Area supported by each stay

8 1/2" x 7"

Working pressure by rules

205 lb.

End plates in steam space:

Material

Steel

Thickness

29/32"

Pitch of stays

15"

How are stays secured

all nuts

Working pressure by rules

163 lb.

Material of stays

Steel

Diameter at smallest part

2 1/4"

Area supported by each stay

15" x 14 1/2"

Working pressure by rules

164 lb.

Material of Front plates at bottom

Steel

Thickness

27/32"

Material of Lower back plate

Steel

Thickness

1 3/8"

Greatest pitch of stays

14"

Working pressure of plate by rules

160 lb.

Diameter of tubes

3 1/4"

Pitch of tubes

14 1/2"

Material of tube plates

Steel

Thickness: Front

27/32"

Back

10/16"

Mean pitch of stays

9"

h across wide water spaces

13 1/4"

Working pressures by rules

166 lb.

Girders to Chamber tops: Material

Iron

Depth and

8"

Thickness of girder at centre

6:2"

Length as per rule

24"

Distance apart

7 1/2"

