

REPORT ON MACHINERY.

11909

Port of

Iruel.

Received at London Office

18

No. in Survey held at
Reg. Book.

Iruel.

Date, first Survey

Mar. 28

Last Survey

July 25th

1898.

(Number of Visits 12)

462 on the

Trawler

"Pointy Castle"

Tons } Gross 162
Net 52

Master

Watson

Built at

Iruel

By whom built

Cook & Co. & Co.

When built

1898

Engines made at

Iruel

By whom made

C. D. Holmes & Co.

when made

1898

Boilers made at

Iruel

By whom made

do:

when made

1898

Registered Horse Power

Owners

G. H. D. Birt.

Port belonging to

Hilford Haven.

Nom. Horse Power as per Section 28

54

Is Electric Light fitted

no

ENGINES, &c.—Description of Engines

Triple expansion

No. of Cylinders

3

No. of Cranks

3

Diameter of Cylinders

12 1/4 x 19 1/2 x 32

Length of Stroke

22 1/2

Revolutions per minute

112

Diameter of Screw shaft

as per rule 5.9
as fitted 6 5/16

Diameter of Tunnel shaft

as per rule 5.6
as fitted 6

Diameter of Crank shaft journals

6 1/4

Diameter of Crank pin

6 1/4

Size of Crank webs

4 3/8 x 8 3/4

Diameter of screw

8 1/2 - 1 1/2"

Pitch of screw

11'-0" to 10'-0"

No. of blades

4

State whether moveable

no

Total surface

23 1/2 sq ft

No. of Feed pumps

One

Diameter of ditto

17/8

Stroke

22 1/2

Can one be overhauled while the other is at work

✓

No. of Bilge pumps

One

Diameter of ditto

2 1/8

Stroke

22 1/2

Can one be overhauled while the other is at work

✓

No. of Donkey Engines

One

Sizes of Pumps

2 3/4 + 5"

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

In Engine Room

One 2" dia.

In Holds, &c.

One 2" dia.

No. of bilge injections

1 sizes 3"

Connected to condenser, or to circulating pump

Is a separate donkey suction fitted in Engine room & size

Ejector

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

valves & cocks

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

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

new

Is the screw shaft tunnel watertight

no tunnel

Is it fitted with a watertight door

✓

worked from

✓

BOILERS, &c.—

(Letter for record S)

Total Heating Surface of Boilers

876 sq ft

Is forced draft fitted

no.

No. and Description of Boilers

One single ended, multi.

Working Pressure

170

Tested by hydraulic pressure to

340

Date of test

16/6/98

Can each boiler be worked separately

✓

Area of fire grate in each boiler

27 sq ft

No. and Description of safety valves to

each boiler

Two spring loaded

Area of each valve

3.98 sq in

Pressure to which they are adjusted

175

Are they fitted

with easing gear

yes

Smallest distance between boilers or uptakes and bunkers or woodwork

7"

Mean diameter of boilers

10' 9"

Length

9' 6"

Material of shell plates

steel

Thickness

3/32

Description of riveting: circum. seams

D. Riveted

long. seams

D. Butt straps

Diameter of rivet holes in long. seams

1"

Pitch of rivets

7/8

Lap of plates

width of butt straps

15"

table riveted

Per centages of strength of longitudinal joint

rivets 96.7
plate 86.0

Working pressure of shell by rules

172

Size of manhole in shell

16 x 12

Size of compensating ring

6" x 1"

No. and Description of Furnaces in each boiler

2 Holmes'

Material

steel

Outside diameter

39"

Length of plain part

top 15"

Thickness of plates

crown 37/64
bottom 3/32

Description of longitudinal joint

welded

No. of strengthening rings

✓

Working pressure of furnace by the rules

175

Combustion chamber plates: Material

steel

Thickness: Sides

5/8

Back

9/16

Top

9/16

Bottom

5/8

Pitch of stays to ditto: Sides

7 1/2

Back

7 3/4

Top

7 1/8

If stays are fitted with nuts or riveted heads

nuts

Working pressure by rules

182

Material of stays

steel

Diameter at smallest part

1 1/2

Area supported by each stay

58 sq in

Working pressure by rules

244

End plates in steam space:

Material

steel

Thickness

29/32

Pitch of stays

14 1/4

How are stays secured

nuts

Working pressure by rules

191

Material of stays

steel

Diameter at smallest part

2 1/2

Area supported by each stay

263 sq in

Working pressure by rules

211

Material of Front plates at bottom

steel

Thickness

27/32

Material of Lower back plate

steel

Thickness

3/4

Greatest pitch of stays

7 3/4

Working pressure of plate by rules

170

Diameter of tubes

3 1/4

Pitch of tubes

4 5/8

Material of tube plates

steel

Thickness: Front

27/32

Back

13/16

Mean pitch of stays

9 1/4

Pitch across wide water spaces

14"

Working pressures by rules

170

Girders to Chamber tops: Material

iron

Depth and

thickness of girder at centre

7 x 2

Length as per rule

29 3/16

Distance apart

7 1/8

Number and pitch of Stays in each

3.7

Working pressure by rules

191

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

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

Lloyd's Register

Foundation

HUL416-0097

DONKEY BOILER— Description

— no donkey boiler —

Made at _____ By whom made _____ When made _____ Where fixed _____

Working pressure _____ tested by hydraulic pressure to _____ No. of Certificate _____ Fire grate area _____ Description of safety 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 _____

Diameter of donkey boiler _____ Length _____ Material of shell plates _____ Thickness _____

Description of riveting long. seams _____ Diameter of rivet holes _____ Whether punched or drilled _____ Pitch of rivets _____

Lap of plating _____ Per centage of strength of joint _____ Rivets _____ 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 _____

Thickness of furnace crown plates _____ Stayed by _____ Working pressure of shell by rules _____

Working pressure of furnace by rules _____ Diameter of uptake _____ Thickness of uptake plates _____ Thickness of water tubes _____

SPARE GEAR. State the articles supplied:— 2 top end bolts, 2 bottom end bolts, 2 main bearing bolts, 1 set coupling bolts, 1 set feed pump valves, 1 set bilge pump valves, set of check valves, 1 safety valve spring. The vessel is provided with masts & sails as a trawler.

The foregoing is a correct description,

Charles D. Holmes Manufacturer.

Dates _____ During progress of work in shops - -
of Survey _____ During erection on board vessel - -
while building _____ Total No. of visits 12

1898:— Mar 28 Apr 7. 22. 26 May 17 Jun 8. 13. 16. 29 July 1. 4. 25

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

workmanship, good -

ENGINES—Length of stern bush 2'-6" Diameter of crank shaft journals as per rule 5.9 as fitted 6 1/4 Diameter of thrust shaft under collars 6 1/8

BOILERS—Range of tensile strength 26-32 Are they welded or flanged ✓ DONKEY BOILERS—No. ✓ Range of tensile strength ✓

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

The machinery of this vessel has been constructed under Special Survey and placed on board in accordance with the Society's Rules and is eligible in my opinion for the notification + L.M.C. 7. 98 in the Register Book.

It is submitted that
this vessel is eligible for
THE RECORD. + L.M.C. 7. 98

HL
4/8/98

The amount of Entry Fee. £ 1 : : : When applied for.
Special £ 8 : 2 : : 22/4/98.
Donkey Boiler Fee £ : : : :
Travelling Expenses (if any) £ : : : : When received.
29/7/98.

Committee's Minute

Assigned

FRI 5 AUG 1898

MACHINERY CERTIFICATE
WRITTEN.

+ L.M.C. 7. 98



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