

REPORT ON MACHINERY.

MON 14 MAR 1898

Port of Hull -

Received at London Office

18

No. in Survey held at
Reg. Book.

Hull -

Date, first Survey

Apr 28/97

Last Survey

Mar 1st

1898

(Number of Visits 30)

4 on the Hawker

"Tourquennois"

Gross 183
Tons Net 76

Master

Built at

Beverley

By whom built

Cochrane & Cooper Ltd

When built

1897-8

Engines made at

Hull

By whom made

C.D. Holmes & Co.

when made

1897-8

Boilers made at

Hull

By whom made

do.

when made

1897-8

Registered Horse Power

60

Owners

E. B. Pott

Port belonging to

Ostend

Nom. Horse Power as per Section 28

64

H. Aspelagh -

Is Electric Light fitted

✓

ENGINES, &c.—Description of Engines

Triple Exp. Inst. Cyl.

No. of Cylinders

3.

No. of Cranks

3

Diameter of Cylinders

13 x 21 x 34

Length of Stroke

24

Revolutions per minute

110

Diameter of Screw shaft

as per rule 6.35
as fitted 6 7/16

Diameter of Tunnel shaft

as per rule 6.0
as fitted 6 3/8

Diameter of Crank shaft journals

6 5/8

Diameter of Crank pin

6 5/8

Size of Crank webs

9 x 4 3/4

Diameter of screw

8 1/2

Pitch of screw

10 1/2 to 11 1/2

No. of blades

4

State whether moveable

no

Total surface

26 5/8

No. of Feed pumps

One

Diameter of ditto

1 7/8

Stroke

24

Can one be overhauled while the other is at work

✓

No. of Bilge pumps

One

Diameter of ditto

2 1/4

Stroke

24

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

One 2-dia.

In Holds, &c.

One 2-dia.

Ejector suction - Engine bilge, hold and discharge on deck.

No. of bilge injections

1

sizes

3 1/2

Connected to condenser, or to circulating pump 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

yes

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

forward 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

✓

OILERS, &c.—

(Letter for record

S)

Total Heating Surface of Boilers

1015 5/8

Is forced draft fitted

no

No. and Description of Boilers

One single ended.

Working Pressure

170

Tested by hydraulic pressure to

340

Date of test

17/2/98

Can each boiler be worked separately

✓

Area of fire grate in each boiler

25 5/8

No. and Description of safety valves to

each boiler

Two spring loaded

Area of each valve

3.980"

Pressure to which they are adjusted

175 1/2"

Are they fitted

with easing gear

yes

Smallest distance between boilers or uptakes and bunkers or woodwork

7"

Mean diameter of boilers

11 1/2"

Length

9' 6"

Material of shell plates

Steel

Thickness

1"

Description of riveting: circum. seams

double

long. seams

8 Butt straps

Diameter of rivet holes in long. seams

1 1/32

Pitch of rivets

7"

Lap of plates or

width of butt straps

15"

Percentages of strength of longitudinal joint

rivets 88.74
plate 85.26

Working pressure of shell by rules

182

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

41"

Length of plain part

top 15"
bottom 15"

Thickness of plates

crown 19/32
bottom 19/32

Description of longitudinal joint

welded

No. of strengthening rings

✓

Working pressure of furnace by the rules

172

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 3/4

Back

7 1/2

Top

7 7/8

If stays are fitted with nuts or riveted heads

nuts

Working pressure by rules

176

Material of stays

Steel

Diameter at smallest part

1 1/2

Area supported by each stay

580"

Working pressure by rules

235

End plates in steam space:

Material

Steel

Thickness

1"

Pitch of stays

15 3/4

How are stays secured

nuts

Working pressure by rules

190

Material of stays

Steel

Diameter at smallest part

2 1/4

Area supported by each stay

2460"

Working pressure by rules

215

Material of Front plates at bottom

Steel

Thickness

27/32

Material of Lower back plate

Steel

Thickness

3/4

Greatest pitch of stays

10 3/4

Working pressure of plate by rules

170

Diameter of tubes

3 1/4

Pitch of tubes

4 3/4

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 3/4 x 1 3/4

Length as per rule

29 3/16

Distance apart

7 7/8

Number and pitch of Stays in each

3 - 7 1/2

Working pressure by rules

187

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

Pitch of rivets

Working pressure of shell by rules

Diameter of flue

Material of flue plates

Thickness

How stayed

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

✓

HUL415-0134

Lloyd's Register
Foundation

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 and sails as a trawler.

The foregoing is a correct description,

Charles D. Holmes, Manufacturer.

Dates of Survey while building { During progress of work in shops - 1897: Apr. 28, May 21, 25, June 3, 11, 18, 25, 29, July 5, 14, Aug 19, 25, Sep 3, 22, Oct 1, 8, 14, 20, 26
During erection on board vessel - Nov. 2, 18, 23, 30, Dec. 8, 14, 1898: Jan 21, Feb 17, 21, 24, Mar 1, 18
Total No. of visits 30

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

ENGINES—Length of stern bush 2' 6" Diameter of crank shaft journals ^{as per rule} 6.3 _{as fitted} 6.5/8 Diameter of thrust shaft under collars 6 1/2

BOILERS—Range of tensile strength 26-30 Are they welded or flanged — DONKEY BOILERS—No. ✓ Range of tensile strength ✓

Is the approved plan of main boiler forwarded herewith ^{Sub 24/2/98. Golden Eagle. Report No. 11, 573.} Is the approved plan of donkey boiler forwarded herewith ✓

The machinery of this vessel has been constructed under Special Purview and placed on board in accordance with the Society's Rules and is eligible in my opinion for the notification + M.C. 3-98 in the Register Book—

It is submitted that
this vessel is eligible for
THE RECORD. + L.M.C. 3,98

HS
15/3/98

The amount of Entry Fee. £ 1 : - : - When applied for, 7/3/98
Special .. £ 9 : 12 : -
Donkey Boiler Fee .. £ - : - : - When received, 29/3/98
Travelling Expenses (if any) £ - : - : -

Committee's Minute

Assigned

MACHINERY CERTIFICATE

WRITTEN,

TUES. 15 MAR 1898

+ L.M.C. 3,98

J. P. Cornish
Engineer Surveyor to Lloyd's Register of British & Foreign Shipping.



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Foundation

Null

Certificate (if required) to be sent to Hull

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